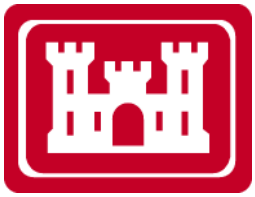
Final
Supplemental RCRA Facility Investigation
Work Plan
Parcel 7
Revision 1.0

Fort Wingate Depot Activity
McKinley County, New Mexico

November 20, 2025

Contract No.: W912PP22D0014
Task Order: W912PP23F0040

Prepared for:



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REPORT DOCUMENTATION PAGE

Form Approved
OMB No. 0704-0188

1. REPORT DATE *(DD-MM-YYYY)*	2. REPORT TYPE	3. DATES COVERED *(From – To)*
20-11-2025	Supplemental RFI Work Plan	July 2014 – November 2025

4. TITLE AND SUBTITLE
Final
Supplemental RCRA Facility Investigation Work Plan
Parcel 7
Revision 1.0
Fort Wingate Depot Activity
McKinley County, New Mexico

5a. CONTRACT NUMBER
W912PP22D0014

5b. GRANT NUMBER
N/A

5c. PROGRAM ELEMENT NUMBER
N/A

6. AUTHOR(S)
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5d. PROJECT NUMBER
N/A

5e. TASK NUMBER
W912PP23F0040

5d. WORK UNIT NUMBER
N/A

7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)
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8. PERFORMING ORGANIZATION REPORT NUMBER
N/A

9. SPONSORING/MONITORING AGENCY NAME(S) AND ADDRESS(ES)
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10. SPONSOR/MONITOR'S ACRONYM(S)
USACE

11. SPONSOR/MONITOR'S REPORT NUMBER(S)
N/A

12. DISTRIBUTION/AVAILABILITY STATEMENT
Unlimited

13. SUPPLEMENTARY NOTES

14. ABSTRACT
This Supplemental RFI Work Plan describes additional investigation activities within Parcel 7 at Fort Wingate Depot Activity, McKinley County, New Mexico. This document has been prepared for submission to the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB), as required by Section VII.F.1 of the Resource Conservation and Recovery Act (RCRA) Permit, No. NM6213820974 and in response to a Notice of Disapproval dated 29 October 2018 for Final RCRA Facility Investigation Report, Parcel 7, Revision 1.

15. SUBJECT TERMS
Fort Wingate Depot Activity, Supplemental RFI Work Plan, Parcel 7

16. SECURITY CLASSIFICATION OF:			17. LIMITATION OF ABSTRACT	18. NUMBER OF PAGES	19a. NAME OF RESPONSIBLE PERSON
a. REPORT	b. ABSTRACT	c. THIS PAGE			Cheryl Frischkorn
U	U	U	SAR	563	19b. TELEPHONE NUMBER (*Include area code*) 703.624.6429

Standard Form 298 (Rev. 8/98)
Prescribed by ANSI Std. Z39. 18

PLACEHOLDER PAGE FOR:

Documentation of New Mexico Environmental Department Approval of Final Document

(Documentation to be provided once approval is issued)

DOCUMENT CERTIFICATION

Final Supplemental RCRA Facility Investigation Work Plan, Parcel 7, Revision 1.0
Fort Wingate Depot Activity, McKinley County, NM

40 CFR 270.11

November 2025

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

Cheryl Frischkorn

Ms. Cheryl Frischkorn
Base Realignment and Closure (BRAC), Environmental Coordinator
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Totals	**8**	**26**

Notes:

BEC	=	Base Environmental Coordinator
BIA	=	Bureau of Indian Affairs
BIA-NRO	=	Bureau of Indian Affairs – Navajo Regional Office
BRAC	=	U.S. Army Base Realignment and Closure Division
EPA	=	U.S. Environmental Protection Agency
FWDA BEC	=	Fort Wingate Depot Activity Base Realignment and Closure Environmental Coordinator
NM	=	New Mexico
NMED HWB	=	New Mexico Environment Department, Hazardous Waste Bureau
NN	=	Navajo Nation
OH	=	Ohio
USACE	=	U.S. Army Corps of Engineers

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EXECUTIVE SUMMARY

ES.1 EXECUTIVE SUMMARY INTRODUCTION

This Supplemental Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan was prepared by Parsons, Inc., for the U.S. Army Corps of Engineers (USACE) for submission to the New Mexico Environment Department (NMED) Hazardous Waste Bureau, as required by Section VII.H.1.a of the RCRA permit (NM 6213820974) effective December 1, 2005, and last revised February 2015 (NMED, 2015).

ES.2 PURPOSE AND SCOPE

The purpose and scope of this Supplemental RFI are to:

1. Address data gaps remaining from the initial 2014 RFI fieldwork,
2. Further define the horizontal and vertical extent of soil contamination at Parcel 7,
3. Assess potential risks to human health and the environment, and
4. Provide sufficient information to conduct Corrective Measures Studies for Parcel 7.

This Supplemental RFI Work Plan contains investigative information for two solid waste management units (SWMUs) and one area of concern (AOC) in Parcel 7:

SWMU 9: Petroleum, Oils, and Lubricants (POL) Waste Discharge Area (POL Area);

SWMU 25: Trash Burning Ground Property Disposal Office; and

AOC 43: Railroad Classification Yard.

ES.3 PROPOSED INVESTIGATIONS

Existing data have been evaluated to determine what additional field activities are required to complete characterization of the nature and extent of the soil contamination that were deemed to have data gaps from the initial RFI at Parcel 7 and to address comments received from NMED, contained in the NMED disapproval letter (NMED, 2018) on the *Final RCRA Facility Investigation Report Parcel 7, Revision 1,* dated June 27, 2018 (AMEC Foster Wheeler, 2018). The 2018 RFI Report, Revision 1 has since been withdrawn by the Army. The supplemental RFI sampling results will be combined with the initial RFI data and will be presented in a new RFI Report to be submitted to NMED for review and approval. **Sections 3, 4, and 5** evaluate existing information and present the proposed data collection activities for the individual sites to develop recommendations for further action.

Soil samples from SWMU 9 will be collected and analyzed for the following:

Volatile organic compounds (VOCs)

Semi-volatile organic compounds (SVOCs)

Total Petroleum Hydrocarbons-Gasoline Range Organics (TPH-GRO)

Total Petroleum Hydrocarbons-Diesel Range Organics (TPH-DRO) Extended (C10-C36)

Lead

Soil samples from SWMU 25 will be collected and analyzed for the following:

VOCs

SVOCs

TPH-DRO

Dioxins/Furans

Polychlorinated biphenyls

Pesticides

Herbicides

Explosives

TPH-GRO

Target Analyte List (TAL) Metals (including aluminum, antimony, arsenic, barium, beryllium, cadmium, calcium, cobalt, copper, iron, lead, magnesium, manganese, mercury, nickel, potassium, selenium, silver, sodium, thallium, total chromium, vanadium, and zinc)

Soil samples from AOC 43 will be collected and analyzed for the following:

Dioxins/Furans

Section 1 is an introduction to this Supplemental RFI Work Plan, **Section 2** provides details gleaned from data obtained during previous investigations, **Sections 3 through 5** summarize the proposed investigation activities, **Section 6** describes investigation methods, **Section 7** describes the risk assessment process for the RFI Report, and **Section 8** provides the schedule. The Army will conduct the RFI activities in accordance with this RFI Work Plan, once approved by the NMED, and the RCRA permit (NMED, 2015). This RFI Work Plan discusses other associated project-specific planning documents, which are provided as appendices.

ES.4 RISK EVALUATION

A human health risk evaluation will be performed for Parcel 7 to evaluate the potential for unacceptable risks to current and future receptors from exposure to detected constituents in soil. The human health risk evaluation will be performed in accordance with *NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume 1, Soil Screening Guidance for Human Health Risk Assessments* published in November 2022 (NMED, 2022) and the Memorandum from the United States Environmental Protection Agency (USEPA) regarding the *Updated Residential Soil Lead Guidance for CERCLA Sites and RCRA Corrective Action Facilities* (USEPA, 2024), or most current at the time of writing the risk evaluation. The risk evaluation will also comply with the requirements of Section 7.2 of Attachment 7 of the RCRA permit (NMED, 2015), including evaluating residential land use.

NMED human health risk guidance specifies two risk thresholds used to evaluate cancer risks and non-cancer hazards for potential receptors including residents, commercial/industrial workers, and construction workers (NMED, 2022). NMED indicates that adverse health impacts are unlikely when the incremental lifetime cancer risk is less than or equal to $1x10^{-5}$ for carcinogenic analytes, and when the hazard index is less than or equal to 1.0 for non-carcinogenic analytes.

Screening values will be selected from those sources listed in Section 7.2 of Attachment 7 of the RCRA permit (NMED, 2015) and will include NMED Human Health Screening Levels for Direct Contact and Groundwater Protection, supplemented with USEPA Regional Screening Levels, as needed.

The conceptual site model indicates that the only current receptors potentially exposed to soil contamination are commercial/industrial workers that may be exposed to surface soil during routine landscaping and outdoor maintenance activities. Potential future receptors include residential receptors, commercial/industrial workers, and construction workers.

The human health risk assessment will consist of the following steps per Section 1.3 of the NMED Human Health Risk Assessments (NMED, 2022): 1) identify chemicals of potential concern (COPCs) as analytes detected in one or more samples from the data set for each SWMU or AOC, then perform a metals background evaluation to compare site concentrations to background concentrations (Shaw Environmental, 2010 and USACE, 2013) before evaluating cumulative risks to determine if metals should be retained as COPCs, 2) an initial cumulative risk evaluation that includes dividing the maximum concentration by the screening level to calculate a risk ratio, 3) if the initial cumulative risks or hazards exceed the NMED risk thresholds, then calculate a refined EPC (95% UCL), 4) conduct a refined cumulative risk evaluation using the refined EPC, 5) evaluate migration to groundwater using the maximum detected concentrations in soil compared to the SL-SSLs, then if the initial comparison results in an exceedance of the migration to groundwater SL-SSLs, compare refined EPCs and/or site-specific data to the SL-SSLs, 6) discuss uncertainties, and 7) if Step 4 and/or Step 5 results in excess risk/hazard or potential to impact groundwater, conduct additional site-specific refinements of the assessment.

A screening level ecological risk assessment will be performed for Parcel 7 to evaluate the potential for unacceptable risks to current and future receptors from exposure to detected constituents in soil. The screening level ecological risk assessment will be performed in accordance with *NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume II, Soil Screening Guidance for Ecological Risk Assessments,* Revised in 2017 (NMED, 2017), or most current at the time of writing the risk evaluation. Ecological screening will use NMED Ecological Screening Levels (Attachment C, Tables C-1 through C-6, NMED, 2017). Additional sources of ecological screening values will be evaluated in the ecological risk assessment for chemicals without an NMED ESL, as necessary. Screening levels that are current at the time the risk evaluation is performed will be used. The risk evaluation will also comply with the requirements of Section 7.5 of Attachment 7 of the RCRA permit (NMED, 2015).

Analytes detected in one or more samples from the data set for each SWMU or AOC will be retained as preliminary chemicals of potential ecological concern (COPECs). Analytes that are not detected in any sample will not be retained as preliminary COPECs. A detected chemical will not be eliminated as a COPEC only because toxicity information is lacking; instead, limited or missing toxicity data will be addressed as directed by NMED (**Appendix A**) by identification of additional sources of toxicity values and evaluation of surrogate toxicity data from a similar chemical.

Uncertainties associated with surrogate toxicity data will be discussed in the uncertainty section of the RFI Report.

The ecological exposure pathway analysis considers the six groups of representative receptors identified in the NMED risk guidance (NMED, 2017): 1) plants, 2) deer mouse, 3) horned lark, 4) kit fox, 5) red-tailed hawk, and 6) prong-horned antelope. The exposure pathway analysis serves to focus the evaluation on only those receptors for which the pathway is potentially complete. Receptors for which the exposure pathway is incomplete, or for which the home range size is much greater than the size of the area being evaluated, will be eliminated from the ecological risk evaluation.

This work plan for Parcel 7 includes SWMU 9 (approximately 0.17 acres), SWMU 25 (approximately 8 acres), and AOC 43 (approximately 6.6 acres). Each of these are smaller than 10% of the home range size for three large home range receptors, so the following receptors can be eliminated from further evaluation: 1) kit fox (only for sites greater than 267 acres), 2) red tailed hawk (only for sites greater than 177 acres), and 3) prong-horned antelope (only for sites greater than 342 acres). The NMED guidance requires plants, the deer mouse, and the horned lark to be evaluated at all sites, regardless of size. Therefore, the screening level ecological risk assessment will consider each of these three receptors.

The screening level ecological risk assessment will consist of two tiers:

> Tier 1 – Will present an initial quantitative assessment of ecological risk under the most conservative conditions (for example, maximum concentrations, minimum body weights, use of no adverse effect level [NOAEL] toxicity reference values [TRV], and other conservative assumptions). If the Tier 1 evaluation indicates that there is a potential for adverse effects on ecological receptors, then additional evaluation following the Tier 2 process will be required.
>
> Tier 2 – Will present a refined quantitative assessment of ecological risk that incorporates revisions to include but not limited to the exposure dose input parameters and TRVs and re-assesses ecological risk using more realistic assumptions including EPCs (95% UCL). A lines-of-evidence discussion may also be developed as part of the Tier 2 risk evaluation.

The NMED risk guidance (NMED, 2017; Section 3.5) identifies the ecological target risk threshold as 1.0. This risk level is the threshold over which the potential for adverse effects on ecological receptors can occur and triggers additional ecological evaluation (i.e., Tier 2).

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ACRONYMS AND ABBREVIATIONS

°C	Degree(s) Celsius
≤	Less than or equal to
%	Percent
%R	Percent recovery
ACM	Asbestos Containing Materials
AMEC	AMEC Environment & Infrastructure
AOC	Area of Concern
APP	Accident Prevention Plan
Army	United States Department of the Army
ASTM	American Society for Testing and Materials
atm-m3/mol	Atmospheres – cubic meter(s) per mol
AUF	Area use factor
bgs	Below ground surface
BRACD	U.S. Army Base Realignment and Closure Division
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CESPA	Corps of Engineers Albuquerque District
COC	Chain of custody
COPC	Chemical of potential concern
COPEC	Chemical of potential ecological concern
CSM	Conceptual site model
DAF	Dilution attenuation factor
DDE	Dichlorodiphenyldichloroethylene
DDT	Dichlorodiphenyltrichloroethane
DL	Detection limit
DQO	Data quality objective
DRO	Diesel-range organics
EC	Effect concentration
EPA	United States Environmental Protection Agency
EPC	Exposure point concentration
ERI	Environmental Research, Inc.
ERM	ERM Program Management Company
ESL	Ecological Screening Level
FWDA	Fort Wingate Depot Activity
g/mol	Gram(s) per mol
GPS	Global Positioning System
GRO	Gasoline-range organics
Hg	Mercury
HI	Hazard index
HISD	Historical Information Summary Document
HQ	Hazard quotient
HWB	Hazardous Waste Bureau
ID	Identification
IDW	Investigation-derived waste
LCS	Laboratory control sample

ACRONYMS AND ABBREVIATIONS (CONTINUED)

LOAEL	Lowest observed adverse effect level
LOD	Limit of detection
LOQ	Limit of quantitation
M&E	Metcalf & Eddy
mg/kg	Milligram(s) per kilogram
mg/L	Milligram(s) per liter
mL	Milliliter(s)
MS	Matrix spike
MSD	Matrix spike duplicate
MSL	Mean sea level
N/A	Not applicable
NHPA	National Historic Preservation Act
NMED	New Mexico Environment Department
NOAEL	No adverse effect level
NRCS	Natural Resources Conservation Service
OB/OD	Open Burning/Open Detonation (Area)
OSHA	Occupational Safety and Health Administration
oz	Ounce(s)
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PE	Professional Engineer
Permit	RCRA Permit NM 6213820974 for the FWDA Permit
PG	Professional Geologist
PID	Photoionization detector
POL	Petroleum, Oils, and Lubricants (Area)
PPE	Personal protective equipment
QA	Quality assurance
QC	Quality control
QSM	Quality Systems Manual
RCRA	Resource Conservation and Recovery Act
RFI	RCRA Facility Investigation
RPD	Relative percent difference
RSL	Regional Screening Level
SIM	Selected ion mode
SLHQ	Screening level hazard quotient
SSHO	Site Safety and Health Officer
SSHP	Site Safety and Health Plan
SSL	Soil Screening Level
SVOC	Semi-volatile organic compound
SWMU	Solid Waste Management Unit
TAL	Target analyte list
TCL	Target compound list
TEAD	Toole Army Depot
TEQ	Toxic equivalency factor

ACRONYMS AND ABBREVIATIONS (CONTINUED)

TNT	Trinitrotoluene
TPH	Total petroleum hydrocarbons
TRV	Toxicity reference values
UCL	Upper confidence limit
U.S.	United States
USDA	U.S. Department of Agriculture
U.S. DOI	U.S. Department of the Interior
USACE	United States Army Corps of Engineers
USEPA	U.S. Environmental Protection Agency
UTL	Upper tolerance limit
VI	Vapor intrusion
VOA	Volatile organic analysis
VOC	Volatile organic compound

1.0 INTRODUCTION

This Supplemental Resource Conservation and Recovery Act (RCRA) Facility Investigation (RFI) Work Plan describes the additional investigation activities to be completed within Parcel 7 at Fort Wingate Depot Activity (FWDA), in McKinley County, New Mexico (see **Figures 1.1** and **1.2**).

This Supplemental RFI Work Plan has been prepared by the Army for submission to the New Mexico Environment Department (NMED) Hazardous Waste Bureau (HWB), as required by Section VII.H.1.a of the RCRA Permit (Permit) (NM 6213820974) for the FWDA, which became effective December 31, 2005, and was most recently modified in February 2015 (NMED, 2015).

This Supplemental RFI Work Plan describes the additional investigation activities to be completed based on NMED comments received in their disapproval letter dated October 29, 2018 (NMED, 2018) on the *Final RCRA Facility Investigation Report Parcel 7, Revision 1*, dated June 27, 2018 (AMEC Foster Wheeler Environment & Infrastructure, Inc. [AMEC Foster Wheeler], 2018), as well as to incorporate methodologies from the latest NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2017 and 2022). Responses to the NMED disapproval letter are provided in **Appendix A**. The 2018 RFI Report, Revision 1 has since been withdrawn by the Army. The supplemental RFI sampling results will be combined with the initial RFI data and will be presented in a new RFI Report to be submitted to NMED for review and approval.

1.1 PURPOSE AND SCOPE

The purpose of this Supplemental RFI Work Plan is to propose additional sampling activities and methodology in selected areas within Parcel 7 to determine if a release has occurred, and, if so, determine the nature and extent of contamination and whether contaminants are present in quantities that could pose a risk to human and ecological receptors. The Supplemental RFI is designed to address additional sampling requirements and to address comments received from the NMED, contained in an NMED disapproval letter (NMED, 2018). Responses to the NMED disapproval letter are provided in **Appendix A**.

The scope of this Supplemental RFI investigation includes:

- Address data gaps remaining from the initial 2014 RFI fieldwork,
- Collect subsurface soil samples for analysis at SWMU 9, SWMU 25 and AOC 43,
- Assess potential risks to human health and the environment, and
- Provide sufficient information to complete the RFI Report for Parcel 7.

1.2 PARCEL 7 BACKGROUND INFORMATION

Complete background information regarding FWDA and Parcel 7 is provided in numerous documents previously submitted to NMED, including the following:

- *RCRA Facility Investigation Work Plan, Parcel 7, Final*, Fort Wingate Depot Activity (hereafter referred to as the RFI Work Plan, AMEC Environment & Infrastructure [AMEC], 2013); and
- Historical Information Summary Document (HISD), which serves as a companion to the RFI Work Plan (AMEC, 2013).

The HISD provides a listing of site surveys, data compilation efforts, operational history, site or facility drawings, and environmental investigations that have been contained in previously completed reports and are pertinent to sites now considered to be within Parcel 7. Additionally, the HISD summarizes findings and conclusions from the relevant historical site investigation efforts.

The FWDA installation has been divided into reuse parcels as part of the planned property transfer to the U.S. Department of the Interior (U.S. DOI). The approved RFI Work Plan only includes information related to the SWMUs and AOCs located within Parcel 7 (AMEC, 2013). **Figure 1.2** presents a Parcel Location Map showing the location of Parcel 7. **Figure 1.3** presents a location map for areas of concern (AOCs) and solid waste management units (SWMUs) for Parcel 7. Based on the initial RFI results and comments from NMED (NMED, 2018), two SWMUs and one AOC require additional investigation:

SWMU 9: Petroleum, Oils, and Lubricants (POL) Waste Discharge Area (POL Area);

SWMU 25: Trash Burning Ground Property Disposal Office (Features 1, 2, and 5, as discussed in **Section 5**); and

AOC 43: Railroad Classification Yard.

No additional sampling is proposed for AOC 75 Electrical Transformers within Parcel 7. There is no record of previous releases to the environment from the current or historic electrical transformer within Parcel 7 that would result in COPCs being present at these sites. Two soil samples were collected at AOC 75 in the vicinity of the former transformer, and PCBs were not detected in either sample. The RFI report will recommend the removal of AOC 75 in Parcel 7 from the Permit.

Three additional AOCs/SWMUs or portions of AOCs/SWMUs are also located within the Parcel 7 boundaries, as shown on **Figure 1.3**. AOC 44 was included in the investigation for Parcel 10B and has since been removed from the Permit. AOC 85 is being addressed in Parcel 9 and SWMU 20, which includes the Western Landfill and Features 3 and 4 is being addressed under a separate SWMU-specific corrective action under Parcel 6.

2.0 BACKGROUND

This section summarizes historical information and findings of previous investigations at Parcel 7 as documented in the *Final RCRA Facility Investigation Work Plan and Historical Information Summary Document Parcel 7* (AMEC, 2013).

2.1 SITE DESCRIPTION AND OPERATIONAL HISTORY

The FWDA installation is located approximately eight miles east of Gallup, New Mexico, and currently occupies approximately 15,277 acres of land in McKinley County, New Mexico. **Figure 1.1** presents a Regional Map showing the location of FWDA. The installation is almost entirely surrounded by federally owned or administered lands, including both national forest and tribal lands. The installation can be divided into several sub areas based on their location and historical land use. The major land use areas include the following:

The Administration Area – encompassing approximately 800 acres in the northern portion of the installation, which contains former office facilities, housing, equipment maintenance facilities, warehouse buildings, and utility support facilities. Parcel 7 sits at the western edge of the Administration Area.

The Workshop Area – encompassing approximately 700 acres to the south of the Administration Area consisted of an industrial area containing ammunition maintenance and renovation facilities, the trinitrotoluene (TNT) washout facility, and the TNT leach beds area. The buildings and other structures were demolished in 2010.

Ten Munitions Storage Areas (Igloo Blocks A through H, J, and K) – encompassing approximately 7,400 acres in the central portion of the installation. This area has 732 earth-covered magazines (igloos) and 241 earthen revetments previously used for the storage of munitions.

The Open Burning/Open Detonation (OB/OD) Area – encompassing approximately 1,800 acres in the west-central portion of the installation, which is separated into two sub areas based on the period of operation, the Closed OB/OD Area and the Current OB/OD Area (which is subject to active remediation).

Protection and Buffer Areas – encompassing approximately 4,050 acres located adjacent to the eastern, western, and northern installation boundaries, which consists of buffer zones surrounding the former magazine and demolition areas.

The FWDA installation (the installation) was originally established by the U.S. Army in 1862 at the southern edge of the Navajo territory. In 1918, the mission of FWDA changed from tribal activities to World War I related activities. Beginning in 1940, FWDA's mission was primarily to receive, store, maintain, and ship explosives and military munitions, as well as to disassemble and dispose of unserviceable or obsolete explosives and military munitions. In 1975, the installation came under the administrative command of Tooele Army Depot (TEAD), located near Salt Lake City, Utah.

In January 1993, the active mission of FWDA was ceased, and the installation was closed as a result of the Defense Base Realignment and Closure Act of 1990 (BRAC). Beginning in 2002, the

Army reassigned many FWDA functions to the BRAC Division (BRACD), including caretaker duties, property transfer, and performance of environmental compliance and remediation activities. Command and control responsibilities were retained by TEAD until January 31, 2008, when these responsibilities were transferred to White Sands Missile Range (AMEC, 2013).

The installation is currently undergoing environmental characterization and restoration activities prior to final property transfer and reuse. Since the 1980s, when FWDA became subject to Permit requirements, it has transferred 8,351 acres to the U.S. DOI.

2.2 SITE CONDITIONS

2.2.1 Climate

Northwestern New Mexico is characterized by a semi-arid continental climate. Most precipitation occurs from May through October. Most of the precipitation occurs as rain or hail in summer thunderstorms, and the remainder results from light winter snow accumulations (Metcalf & Eddy, Inc. [M&E], 1992). Spring and fall droughts characterize the area. Mean annual rainfall for the area ranges between 10 and 16 inches, while the recorded average annual precipitation for FWDA is 11 inches. Depending on local elevations, mean annual rainfall fluctuates between eight and 20 inches.

The average seasonal temperatures for the area vary with elevation and topographic features. During winter, daily temperatures fluctuate as much as 50 to 70 degrees Fahrenheit (°F) in a 24-hour period. In summer, daily high temperatures are between 85°F and 95°F (M&E, 1992). Average temperatures in winter are about 27°F and in summer 70°F, while extreme temperatures are as low as -30°F in winter and as high as 100°F in summer. There are 100 to 150 frost-free days during the year from the middle of May to the middle of October (M&E, 1992).

2.2.2 Topography

FWDA elevations range from approximately 8,200 feet above mean sea level (MSL) in the south to 6,660 feet above MSL in the north (**Figure 2.1**). Topographically, FWDA may be divided into three general areas: 1) the rugged north to south trending Hogback along the western and the southwestern boundaries; 2) the northern hilly slopes of the Zuni Mountains in the southern portion; and 3) the alluvial plains marked by bedrock remnants in the northern portion of the installation (AMEC, 2013).

Main drainages, following the topography, generally flow from south to north and discharge to the South Fork of the Puerco River near the northern boundary of FWDA. However, many tributaries follow the regional trend, flowing from southwest to northeast. During rainfall and snowmelt events, streams transport sediment to low-lying areas in the northern part of the installation, creating an extensive alluvial fan deposit among remnants of bedrock.

The topographic contours for the land within Parcel 7 are shown in **Figures 2.1 and 2.2** and illustrate that this parcel is relatively flat with the high point in the southeast corner of the parcel that gradually reduces in elevation to the northern edge of the parcel. Surface runoff during rainfall/snowmelt events collects in man-made arroyos that flow only during precipitation events and drains to the north and northwest (AMEC, 2013).

2.2.3 Vegetation/Habitat

The vegetation cover for Parcel 7 includes moderate grasslands and sagebrush (AMEC, 2013). Parcel 7 provides habitat for antelope, prairie dogs, rattlesnakes, field mice, various other insects and animals, and occasionally mountain lions, elk, and bear. Wetland environments and aquatic habitats do not occur in Parcel 7.

2.2.4 Soils

The soils found on FWDA are similar to those occurring in cool plateau and mountain regions of New Mexico. The major soil types at the installation are variants/complexes of sands, loams, clays, gravel, and exposed bedrock units. These soils are relatively thin, and the parent bedrock is either at or near the surface in more than a quarter of the installation (Natural Resources Conservation Service [NRCS], 2005).

NRCS soils mapping for Parcel 7 is shown in **Figure 2.3**. As presented in **Figure 2.3**, there are four types of soil for Parcel 7. Soils are generally as follows: Ojocal-Venadito Complex, Zia Sandy Loam, Rehobeth Silty Clay Loam, and Aquima-Hawaikuh Silt Loam (U.S. Department of Agriculture [USDA], 2017).

2.2.5 Geology

FWDA is located in an erosional basin within the Navajo section of the Colorado Plateau Physiographic Province and lies on the northwest apex of the Zuni Uplift (AMEC, 2013). This basin is regionally bounded by the Gallup Sag to the west, the Acoma Sag and McCarty's Syncline to the east, and the Chaco Slope to the north. The Zuni Uplift is an elongated north-northwest trending structural uplift that is primarily a result of vertical upward displacement followed by deformation resulting from horizontal compressive stress associated with the Laramide Orogeny of Cretaceous age. The uplift has exposed tilted Mesozoic sedimentary strata within the southwestern portion of the installation, a majority of which are Triassic mudstones and sandstones.

Specifically, the dominant topographic structural feature located on the southwest margin of the Zuni Uplift is the Nutria Monocline or Hogback. This steep structural feature is a monoclinal belt with dips ranging from 30 to 45 degrees near FWDA. Dips commonly exceed 60 degrees in the southern extension of the monocline, south of FWDA. The northern segment of the Nutria Monocline is exposed in the western portion of FWDA, where westerly dipping Mesozoic strata are exposed to form a long, sharp-crested, north-to-south trending ridge. In areas east of the Hogback, the bedrock generally dips to the northwest.

The geologic units exposed at FWDA were largely deposited in the Mesozoic Era and have been significantly modified by more recent erosion and redeposition. The lithified stratigraphic units are Triassic to Cretaceous in age with uplift and deformation occurring in the Cretaceous during the Laramide orogeny series of mountain-building events in western North America (McCraw et al., 2009).

Quaternary alluvial and colluvial deposits unconformably overlie the Mesozoic bedrock in the lower elevation and northern portions of FWDA (Anderson et al., 2003). In the northern portion of FWDA, the surface is covered by either the remnants of the Triassic Chinle Group, or Quaternary alluvial deposits.

Quaternary alluvial deposits cover a majority of Parcel 7 (**Figure 2.4**). There is a small area in the southeast corner of the parcel where Quaternary gravel is mapped in a thin strip oriented north-south. The alluvial sediments in Parcel 7 are underlain by the Triassic-age Petrified Forest Formation, which comprises greater than 75 percent (%) of the bedrock exposed at the surface throughout FWDA. The Quaternary alluvial sediments consist predominately of silts and clays, with discontinuous bodies of sand and some areas of gravel. Wind and water cause extensive soil erosion, especially where vegetative cover is absent. The Petrified Forest Formation underlying the sediments consists primarily of mudstone, claystone, and minor amounts of muddy sandstone. A stratigraphic column and description of the various lithologic units in the FWDA area is presented in **Figure 2.5**.

2.2.5.1 Stratigraphy

Most of FWDA is underlain by the Triassic-age Chinle Group, which is predominantly non-marine, red-bed siliciclastics. The Chinle Group consists of the Shinarump, Bluewater Creek, Petrified Forest, and Owl Rock Formations (Anderson et al., 2003). The Petrified Forest Formation directly underlies the majority of the installation and is subdivided into three members: 1) the Blue Mesa, 2) Sonsela, and 3) Painted Desert. All three members of the Petrified Forest Formation outcrop in various locations across the installation. The Blue Mesa, Sonsela, and Painted Desert lithologies are green-gray smectitic mudstone, light-gray to yellowish-brown cross-bedded sandstone, and reddish-brown and grayish-red smectitic mudstone, respectively (McCraw et al., 2009). In the eastern portion of FWDA, the older Bluewater Creek and Shinarump Formations outcrop intermittently between layers of Quaternary alluvium (McCraw et al., 2009).

The Chinle Group is underlain by the older San Andres Limestone and Glorieta Sandstone, both Permian in age. The San Andres Limestone generally consists of fossiliferous limestone that intertongues the Glorieta Sandstone (Anderson et al., 2003). These two formations do not outcrop within the boundaries of FWDA; however, the Glorieta Sandstone Formation does outcrop south of the installation where a thrust fault juxtaposes Permian strata against the Cretaceous Dakota Sandstone. These two formations comprise the San Andres-Glorieta aquifer, which is the principal source of drinking water in the area (Cooper and John, 1968).

2.2.5.2 Structural Geology

Bedrock underlying most of the FWDA installation dips gently to the northwest at an angle of approximately five degrees. The structural orientation of the bedrock substantially influences the movement of groundwater. The groundwater flow gradient across the installation is primarily to the north-northwest, generally following the structural dip of the geologic units (AMEC, 2013).

2.3 PREVIOUS INVESTIGATIONS SUMMARY

The environmental remediation process has been underway for more than 30 years at FWDA. In 1980, the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) guidelines began to guide environmental remediation activities at FWDA other than those in the OB/OD Area, with the U.S. Environmental Protection Agency (USEPA) Region 6 as the lead regulatory agency. In 1996, the NMED was granted regulatory authority under RCRA and became the lead regulatory agency for the site. Activities are currently performed under the Permit issued in 2005 and revised in February 2015 (NMED, 2015).

Available historical information from prior investigations for FWDA sites that lie within what is now identified as Parcel 7 have been compiled and summarized in an HISD that serves as a companion to the RFI Work Plan (AMEC, 2013). The HISD provides a listing of site surveys, data compilation efforts, operational history, site or facility drawings, and environmental investigations that have been contained in previously completed reports and that are pertinent to sites now considered to be within Parcel 7. Additionally, the HISD summarizes findings and conclusions from the relevant historical site investigation efforts. Summaries of prior environmental investigations pertinent to the Parcel 7 sites are also provided in the individual sections for the Parcel 7 SWMUs and AOCs within the RFI Work Plan (AMEC, 2013).

The RFI field work was conducted in 2014 in accordance with the RFI Work Plan (AMEC, 2013). The RFI Work Plan was approved by NMED HWB in an Approval with Modifications (NMED, 2014). The results are summarized in this Supplemental Work Plan and presented in **Appendix B**. The RFI Report was disapproved by NMED on October 29, 2018 (NMED, 2018). Therefore, the RFI Report was withdrawn and the initial RFI data will be used in conjunction with data obtained as part of this Supplemental RFI to complete the RFI Report. A new RFI Report will be submitted to NMED for review and approval.

Site-specific previous investigation information for SWMU 9 is located in **Section 3.2**, SWMU 25 is located in **Section 4.2**, and AOC 43 is located in **Section 5.2**.

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3.0 SWMU 9 – POL AREA AND STAINED AREA SOUTHEAST OF SWMU 9

This section summarizes the background, previous investigations, data gaps, presents the preliminary conceptual site model (CSM), and provides details on the proposed Supplemental RFI sampling for the SWMU 9 - POL Area.

3.1 BACKGROUND

3.1.1 Location, Description, and Operational History

SWMU 9 - POL Area is located south of the Railroad Classification Yard, and west of Arterial Road 7 as shown in **Figure 2.2**. The POL Area consists of an approximate 100-foot-diameter circular area as indicated in figures from the ERM 1997 report described in the HISD (AMEC, 2013). The area was used for the disposal of waste oils and possibly solvents until approximately 1975 when the area was covered with clean soils and usage as a disposal area was discontinued. Approximately 200 gallons per year of POL and solvents were reportedly disposed of at this location. Dumping was reported as direct pouring of waste materials onto surface soils (ERM, 1997). However, previous investigations in the area failed to identify any surface soil staining associated with the POL Area. Upon review of historical aerial photographs from 1966, an additional stained area was identified southeast of the original 100-foot diameter circular area. This area is being investigated in conjunction with SWMU 9. Data gaps associated with this area are the focus of this Supplemental RFI.

3.1.2 Surface and Subsurface Conditions

The POL Area is generally flat, and the vegetative cover consists mostly of grass and sagebrush. In the vicinity of the POL Area, the ground surface elevation increases to the east and south, sloping back from the area toward the Administration Area, and decreasing to the west and north where surface water drains to an arroyo running south to north. Subsurface conditions at the POL Area consist of silts, clays, sands, and gravel overlaying shallow rock.

3.2 PREVIOUS INVESTIGATIONS

3.2.1 Historical Records Review and Site Reconnaissance

A review of available aerial photography (1935, 1948, 1952, 1958, 1962, 1966, 1973, 1978, 1985, 1991, 1993, 1997, and 2009) suggested that an access road was constructed, and discharge of waste was initiated sometime between 1948 and 1952 and was discontinued in 1975 when the area was covered with soil (Environmental Research, Inc. [ERI], 2006). According to the ERI report, the suspected waste discharge area is approximately 7,820 square feet in size and visible staining and dark toned material were observed in the area until 1978. A significant dark stained area appears in the 1958 through 1978 aerial photos within the POL boundary and the area does not support vegetation in following photographs. In addition, figures were found in the 1997 ERM report which show an area of approximately 10,000 square feet as an area of “Stressed Vegetation” which was presumed to be the location of the suspected waste discharge.

3.2.2 1997 RI/FS Report and RCRA Corrective Action Document

Previous investigative activities were performed at the POL Area as part of a Final Remedial Investigation and Feasibility Study and RCRA Corrective Action Program (ERM, 1997), which is described in the HISD (AMEC, 2013). Assessment activities consisted of the placement of five soil borings (FPO01 through FPO05) to a depth of 10 feet below ground surface (bgs) in an area of distressed vegetation. During the field activities, 15 subsurface soil samples were collected at depths of 1, 5, and 10 feet bgs at the five locations shown on **Figure 3.1**. Samples were analyzed for VOCs, SVOCs, polychlorinated biphenyls (PCBs) and TAL metals. Results of previous soil analyses in the POL Area have been screened against NMED Human Health Direct Contact SSLs (NMED, 2022) and are presented in **Appendix B** (Table B.3-1). Groundwater sampling was not conducted because monitoring well FW-26 was dry at the time of field activities. It should be noted that groundwater is being evaluated as part of the Supplemental Northern Area Groundwater RFI. The most recent document was the approved Northern Area Groundwater Report (HDR, 2023) and the Phase 2 Groundwater RFI Work Plan is being prepared for submittal in 2024. No detectable concentrations of VOCs, SVOCs, or PCBs were present in the subsurface soil samples, and no metals were detected at levels that exceeded soil screening levels (SSLs). However, the previous investigations were insufficient in determining whether there is contamination at the POL Area.

3.2.3 2014 RCRA Facility Investigation

Additional soil sampling in the POL Area was performed on August 14, 2014. Samples were collected from locations in the vicinity of the soil borings collected in November 1992. Sample locations 0709POLSS007 through 0709POLSS010 were collected from an area of disturbed soil that was identified 100 feet southeast of the defined SWMU 9 boundary. The soils at sample location 0709POLSS007 were similar to those observed in the original sampling area; however, red-orange staining/oxidation was observed at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs. Evidence of past petroleum disposal was observed at sample locations 0709POLSS008 through 0709POLSS010, in the form of nodules and layers of tar, strong petroleum odor, and dark stained soil. As described in the approved RFI Work Plan (AMEC, 2013), all samples were analyzed for VOCs, SVOCs, total petroleum hydrocarbon (TPH) gasoline-range organics (GRO), TPH diesel-range organics (DRO), and RCRA metals. Results are provided in **Appendix B** (**Tables B.3-2 through B.3-5**).

During the August 14, 2014 investigation, 20 soil samples were collected at SWMU 9 from 10 sample locations. Six of the sample locations (0709POLSS001 through 0709POLSS006) were located within the SWMU 9 boundary and sampled at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs. The soil encountered in this area was primarily fine-grained, light-brown, sandy silt that had no odor or staining. There was no observed evidence of petroleum product disposal in this area.

Four additional sample locations (0709POLSS007 through 0709POLSS010) were located in the area of visible petroleum disposal located approximately 100 feet southeast of the SWMU 9 boundary on August 14, 2014 (**Figure 3.1**) and sampled at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs.

On August 22, 2014, several test pits were excavated using a backhoe and hand auger in an attempt to determine the lateral and vertical limits of the petroleum impacted area. The first test pit was excavated with a backhoe north of sample location 0709POLSS009. The backhoe was then moved eastward, with the final test pit located south of sample location 0709POLSS010. A test pit was excavated to a depth of 5.25 feet near sample location 0709POLSS008. The test pit identified

asphalt material to a depth of approximately 0.8 foot, staining and strong petroleum odor to a depth of approximately 3.5 feet, and slight petroleum odor to the total depth of the test pit (5.25 feet). To determine the lateral limit on the western margin, five boreholes were hand augured on September 4, 2014. The lateral limit of the affected area was flagged when no tar, odor, or staining was observed. The area was delineated with flags, and the perimeter was recorded using the Global Positioning System (GPS) unit. The delineated area of impact is illustrated in **Figure 3.1**. The vertical extent of impact was not defined.

The area of POL disposal is actually the area to the southeast of the original SWMU 9 boundaries. In its 2018 disapproval letter, NMED directed the Army evaluate both vertical and lateral extents of soil contamination associated with TPH-DRO-extended and lead. The purpose of this Supplemental RFI Work Plan is to address NMED's comments regarding the soil contamination at the area to the southeast of SWMU 9.

NMED also directed installation of monitoring well MW34 and investigation of potential impacts to groundwater in the vicinity of the dark stained area. MW34 had been proposed in the *Final Groundwater Supplemental RCRA Investigation Work Plan, Revision 4*, dated March 23, 2018, to assess the potential groundwater impact associated with the dark stained area southeast of SWMU 9. Well MW34 was installed in September 2019, and data are included in the approved *Northern Area Groundwater RFI Report* (HDR, 2023), which was approved on October 19, 2023 (NMED, 2023). Lead has not been detected above screening levels. TPH-DRO was detected at 32 J[1] mg/L in a groundwater sample collected from MW34 in 2022, which exceeded the NMED groundwater screening level of 16.7 µg/L.

3.3 DATA GAP ASSESSMENT

NMED Disapproval comments dated October 29, 2018 were addressed as part of this Supplemental RFI Work Plan (**Appendix A**) and will be incorporated into the RFI Report.

3.3.1 Nature and Extent Evaluation

The nature and extent of contamination is based on historical data and the results of the initial RFI which are provided **Appendix B** (**Tables B.3-1 through B.3-5**). Results were evaluated using the current NMED Human Health Direct Contact SSLs (NMED, 2022). Exceedances of these SSLs are summarized on **Table 3.2**. In accordance with the Permit (NMED, 2015; Attachment 7), the nature and extent of contamination at Parcel 7 will be delineated to the residential NMED direct contact SSLs, or background values, if higher.

Manganese exceeds the NMED Human Health Direct Contact SSL of 464 mg/kg at two 1992 sample locations (FP003 and FP005 at 1 foot bgs), but their concentrations are below the background value of 1,058 mg/kg (**Appendix B**, **Table B.3-1**).

No results exceeded the NMED Human Health Direct Contact SSLs at the six sample locations (0709POLSS001 through 0709POLSS006) located within the original SWMU 9 boundaries and sampled at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs. Lead was detected below its screening level in these samples. DRO and GRO were not detected in any samples collected from within the original SWMU 9 boundary, and no VOCs or SVOCs were detected at concentrations exceeding the screening levels.

[1] J is a laboratory qualifier indicating an estimated value.

Four additional sample locations (0709POLSS007 through 0709POLSS010) were located in an area of disturbed soil located approximately 100 feet southeast of the original SWMU 9 boundary on August 14, 2014 (**Figure 3.1**) and sampled at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs. The soils at sample location 0709POLSS007 were similar to those observed in the original sampling area; however, red-orange staining/oxidation was observed at 0.5 to 1.0 foot and 1.5 to 2.0 feet bgs. Evidence of past petroleum disposal was observed at sample locations 0709POLSS008 through 0709POLSS010, in the form of nodules and layers of tar, strong petroleum odor, and dark stained soil. Results above Human Health Screening Levels are summarized on **Table 3.2**. Lead was detected in all samples, but only three results were above the USEPA RSL of 200 mg/kg (0709POLSS008-0.5-1.0DSO, 0709POLSS009-0.5-1.0DSO, and 0709POLSS010-0.5-1.0DSO). DRO was detected in all samples collected from the area of visible staining located approximately 100 feet southeast of the original SWMU 9 boundary. The Human Health SSL for DRO was increased from 520 milligrams per kilogram (mg/kg) to 1,000 mg/kg, and five results were above the SSL (0709POLSS008-0.5-1.0DSO, 0709POLSS008-1.5-2.0DSO, 0709POLSS009-0.5-1.0DSO, 0709POLSS009-1.5-2.0DSO, and 0709POLSS010-0.5-1.0DSO). DRO was below the SSL in sample 709POLSS010-1.5-2.0DSO. GRO was detected in five samples collected from the area of visible staining; however, none were above the screening level of 100 mg/kg. There were no VOCs or SVOCs detected at concentrations exceeding the screening levels. Detections of SVOCs were limited to polycyclic aromatic hydrocarbons (PAHs). Detections of VOCs were primarily fuel-related constituents (such as 1,2,4-trimethylbenzene or toluene), although acetone and methylene chloride were also detected.

3.3.2 Data Gap Summary

The following data gaps have been identified for SWMU 9:

- The lateral and vertical extent of contamination at the revised disposal area (where 0709POLSS008 through 0709POLSS010 were located) are not defined.

3.4 PRELIMINARY CONCEPTUAL SITE MODEL

The preliminary CSM for SWMU 9 was prepared in accordance with the human health risk assessment guidance (NMED, 2022) and is shown on **Figure 3.2**. The primary source of potential contaminants is disposal of waste oils and possibly solvents. The primary release mechanism is dumping to the ground surface. Secondary sources of potential contaminants are surface soils. Transport mechanisms may include wind erosion from contaminated surface soils, leaching and infiltration to subsurface soil, volatilization of contaminants in surface soil to air, infiltration and leaching to groundwater, and stormwater runoff and erosion of surface soil to surface water and sediment. Groundwater is 50 to 70 feet below the surface, and groundwater does not discharge to surface water. There are no year-round surface water bodies. Therefore, the surface water/sediment exposure pathways are incomplete.

There is potential for receptors to be exposed to contamination remaining from historical activities conducted at FWDA. The potential for exposure varies across Parcel 7 because it contains a mix of developed and open spaces that will support different types of land use. Current land use of Parcel 7 is as an out-of-use military installation undergoing remediation where the receptors could include commercial/ industrial workers and construction workers; however, there are no current construction activities occurring at SWMU 9. Current human receptors include commercial/industrial workers. The properties are anticipated to be transferred to other entities

and therefore future use by residential, commercial/industrial workers, and construction workers is possible. However, the Permit (NMED, 2015; Attachment 7) requires that future residential land use be evaluated to support unrestricted future land use by the Army or other future owner, which includes both adult and child receptors.

The primary media of concern being addressed by this Supplemental RFI Work Plan are surface and subsurface soil. Potential exposure pathways are direct contact (including dermal contact, incidental ingestion, and inhalation of dust or particulates) and the soil leaching to groundwater pathways. There also is the potential for indirect exposure through the VI and beef ingestion pathways. These indirect exposures will be evaluated qualitatively where the exposure pathway analysis conducted at the time of the risk evaluation demonstrates they are complete.

SWMU 9 is a relatively small site (0.17 acres). The beef ingestion pathway is considered incomplete because it is less than two acres in size. While the extent of the contaminated area outside of the SWMU 9 boundary has not been defined at this time, if it is found to exceed 2 acres, the beef consumption pathway may be considered complete and will be evaluated as such in the RFI Report.

The groundwater exposure pathway is potentially complete for future hypothetical residents. Groundwater is assumed to be used as drinking water until it can be demonstrated that an alternate source of drinking water is readily available to replace groundwater as the primary drinking water source.

3.5 PROPOSED SUPPLEMENTAL RFI AT SWMU 9 – POL AREA

DQOs have been developed consistent with the USEPA DQO process. The overall project DQOs are to provide representative, repeatable, high-quality data in order to complete the RFI process for Parcel 7. DQOs specific to SWMU 9 are presented in **Table 3.1.**

Additional characterization activities are recommended around sample locations 0709POLSS008 through 0709POLSS010. **Table 3.2** lists the samples collected during the RFI which exceeded the direct contact SSL for TPH-DRO and lead. Samples were collected from 0.5 to 1.0 or 1.5 to 2 feet bgs. **Table 3.2** also lists whether the lateral and vertical extent was defined.

Proposed sample locations are shown on **Figure 3.3** and sample analysis is shown on **Table 3.3**. Proposed borings 0709POLSB008 and 0709POLSB009 will be located adjacent to former locations 0709POLSS008 and 0709POLSS009, respectively, and subsurface soil samples will be collected at approximately 5.0 to 5.5, 9.5 to 10.0, 15.0 to 15.5, 20.0 to 20.5, and 25.0 to 25.5 feet bgs and analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO Extended (C10-C36) and lead. Soil samples will be collected following the procedures in **Section 6.3.1**. If evidence of potential chemical release is observed during drilling, then up to two additional discrete soil samples will be collected from the interval exhibiting the highest odors, staining, or elevated photoionization detector (PID) readings. The risk assessment in the RFI report will use existing and new data to calculate the risk based on the NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2022).

Step-out borings around the perimeter of the suspected POL disposal area will be used to define the extent of contamination. Eight borings will be advanced ten feet from the perimeter (Borings 0709POLSB011 to 0709POLSB018 on **Figure 3.3**). Samples will be collected from 0.5 to 1.0 and 1.5 to 2.0 locations using a hand auger and analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO

Extended (C10-C36), and lead. If any of the initial sample results encounter obvious contamination (visible material, staining or odors, or the results are above Human Health Screening Levels (**Table 6.4**), additional step-out locations will be completed. The step-out locations will be placed at 10-foot intervals stepping out until the lateral extent of contamination is defined (but not into the access road east of the area). Once the perimeter near the surface is confirmed, four of these locations will be advanced to a depth of 10 feet bgs or as deep as contamination observed during the drilling of 0709POLSB009, to confirm contamination does not extend vertically. Samples will be collected at 5.0 to 5.5 and 9.5 to 10.0 feet bgs and analyzed for VOCs, SVOCs, TPH-GRO, TPH-DRO Extended (C10-C36), and lead. Soil samples will be collected following the procedures in **Section 6.3.1**. If evidence of potential chemical release is observed during drilling, then up to two additional discrete soil samples per location will be collected from the intervals exhibiting the highest odors, staining, or elevated PID readings.

Following the data collection and analysis, data will be evaluated as described in **Section 7**.

4.0 SWMU 25 – TRASH BURNING GROUND PROPERTY DISPOSAL OFFICE

This section summarizes the background, previous investigations, data gaps, presents the preliminary CSM, and provides details on the proposed Supplemental RFI sampling for SWMU 25 – Trash Burning Ground Property Disposal Office.

4.1 BACKGROUND

4.1.1 Location, Description, and Operational History

SWMU 25, the Trash Burning Ground Property Disposal Office is located in the northwestern portion of FWDA, west of the Sewage Treatment Plant (ERM, 1997), south of the North Patrol Road and west of Arterial Road No. 7 as shown on **Figure 4.1**. Based on the available historical information, the approximate use of this area can be traced back to sometime between 1935 and 1948, and it appears to have been inactive by 1973.

4.1.2 Surface and Subsurface Conditions

The SWMU is comprised of Features 1, 2, and 5, and the former Property Disposal Office Area on the 1962 Aerial Photograph API-3 from the 1995 Archive Search Report (USACE, 1995). The three features were first identified as obvious dark-toned areas at the northern portion of the site and a graded rectangular area and berm to the south. Feature 1 appears as the graded rectangular area; Feature 2 consists of a trench scar and berm located south of Feature 1; Feature 5 appears as dark-toned material within a berm northwest of Feature 1; and the Property Disposal Office Area appears as a dark area in the shape of a claw to the east of Feature 5 and north of Feature 1. The locations of these features are shown on **Figure 4.1**. Subsurface conditions at SWMU 25 consist of silts, clays, sands, and gravel overlaying shallow bedrock.

4.2 PREVIOUS INVESTIGATIONS

The Feature 5 area was characterized during field reconnaissance activity by the presence of residue from burning activities containing empty metal containers and metal strapping encompassing an area approximately 100 feet long and 10 feet wide (M&E, 1992). The remnants of the Property Disposal Office are also visible approximately 150 feet to the east of this area and consist of a 20-foot by 10-foot slightly raised area containing some concrete rubble. No facilities information or plan drawings were identified during the historical research for the Property Disposal Office or Trash Burning Ground.

The area around Features 1 and 2 is generally flat, and the vegetation cover consists mostly of grass and sagebrush. The ground surface elevation increases to the east and south sloping back from the features and decreases to the west and northwest where surface water drains to an arroyo running southeast to northwest. Feature 5 and the Property Disposal Office Area are generally sloped to the southwest, with the southern edge of Feature 5 at the base of a small valley and vegetation cover consisting mostly of grass and sagebrush. The ground surface forms a shallow valley with elevation increasing to the north, east, and south and decreasing to the west where surface water also drains to the arroyo running southeast to northwest. Subsurface conditions at SWMU 25 consist of silts, clays, sands, and gravel overlaying shallow rock.

Previous non-sampling data includes historical drawings and maps available for SWMU 25 as presented in the HISD (AMEC, 2013). In addition, a field site visit was performed on November 1, 2011, to observe the burn areas. Aerial imagery from 1935, 1948, 1952, 1958, 1962, 1966, 1973, 1978, 1985, 1991, 1993, 1997, and 2009 was available. Available aerial photography (Environmental Research, Inc. [ERI], 2006) suggests that activities at these areas began sometime between 1935 and 1948 and appears to have been inactive by 1973. Specific details regarding the aerial photos can be found in the HISD (AMEC, 2013).

4.2.1 1992 Final Remedial Investigation and Feasibility Study and RCRA Corrective Action Program

Previous investigative activities were performed at the Old Trash Burning Ground, Feature 5, in SWMU 25, in 1992 as part of a *Final Remedial Investigation and Feasibility Study and RCRA Corrective Action Program* (ERM, 1997), which is described in the HISD (AMEC, 2013). Results of previous soil analyses have been screened against NMED Human Health Direct Contact SSLs (NMED, 2022) and are presented in **Appendix B** (**Table B.4-1**). Previous sample locations are illustrated in **Figures 4.2 through 4.4**. The program initially consisted of the collection of two surface soil samples within the area of blackened soil at the Old Trash Burning Ground (samples OTBS001 and OTB002). Two surface soil samples were also collected near the Property Disposal Office at a downgradient location (samples OTBS003 and OTBS004). These samples were analyzed for target compound list (TCL) VOCs, TCL SVOCs, pesticides, PCBs, and TAL metals. The results of the surface soil sample analysis indicated VOCs, SVOCs, and PCBs were not detected in the sampled soils. The pesticides beta-endosulfan, dieldrin, and dichlorodiphenyltrichloroethane (DDT) were detected, but not at levels that exceeded the direct contact NMED SSLs. In addition, no metals were detected at levels that exceeded SSLs.

Three additional soil borings were completed to a depth of 10 feet bgs at the Old Trash Burning Ground (samples OTB01 through OTB03). Two borings to 10 feet bgs were then completed at the Property Disposal Office location (samples OTB04 and OTB05). Fifteen boring samples at reported depths of 1, 5, and 10 feet bgs were collected during this sampling event and were analyzed for TCL VOCs, TCL SVOCs, pesticides, PCBs and TAL metals. The results of the soil boring sample analysis indicated VOCs, SVOCs and PCBs were not detected in subsurface soil. Manganese exceeds the NMED Human Health Direct Contact SSL of 464 mg/kg at two 1992 sample locations (OTB01 at 1 foot bgs and OTB02 at 5 feet bgs), but the concentrations are below the background value of 1,058 mg/kg. Aluminum exceeds the lowest NMED Human Health Direct Contact SSL of 41,400 mg/kg at sample location OTB02 at 5 and 10 feet bgs; however, it is below the Residential NMED Human Health Direct Contact SSL of 78,000 mg/kg. Copper was detected at 4,100 mg/kg at OTB03-5 (5 feet bgs) which exceeds the Human Health Screening Level of 3,130 mg/kg. Copper was detected at 6.02 mg/kg at OTB03-10 (10 feet bgs), and thus the vertical extent is defined at this location. Pesticides were detected in two samples at concentrations less than Human Health Screening Levels.

4.2.2 2014 RFI Investigation

The approved RFI Work Plan identified a total of 100 sample locations spread throughout the four areas. Two depths of samples were planned for each location from the 0.0 to 0.5-foot and 0.5 to 1.0-foot depth intervals. All samples were analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs (including PAHs), VOCs, and selected explosives. Due to the history of trash burning at the site (Features 1 and 2), NMED requested that dioxins/furans be added to the analyte

list as part of the Work Plan approval. After correspondence with NMED, it was agreed that the total number of samples to be analyzed for dioxins/furans in the 0 to 0.5 foot bgs sample interval could be reduced from 36 to 18 by excluding analysis of the odd numbered sample locations. In order to address Comment 5 of NMED's Approval with Modifications (NMED, 2014) regarding the features observed on historical aerial imagery, it was agreed that three trenches would be excavated across suspect areas located within Feature 1. To accomplish this within the sampling budget, nine of the original 45 sampling locations within Feature 1 were omitted. At the request of NMED, two proposed sample locations within Feature 5 (0725F5SS017 and 0725F5SS019) were relocated to dark areas observed on historical aerial photographs. Results are provided in **Appendix B** (**Tables B.4-2 through B.4-7**).

4.3 DATA GAP ASSESSMENT

NMED Disapproval comments dated October 29, 2018 were addressed as part of this Supplemental RFI Work Plan (**Appendix A**) and will be incorporated into the RFI Report.

4.3.1 Nature and Extent Evaluation

The nature and extent of contamination is based on historical data and the results of the RFI are provided in Appendix **B** (**Tables B.4-1 through B.4-7**). Results that exceed NMED Human Health Direct Contact SSLs (NMED, 2022) are summarized on **Table 4.2**. In accordance with the Permit (NMED, 2015; Attachment 7), the nature and extent of contamination at Parcel 7 will be delineated to the residential NMED direct contact SSLs, or background values, if higher.

Arsenic was detected at 15 mg/kg at 0725F2SS009-0.5-1.0DSO at Feature 2 (**Figure 4.2**), which is above the NMED Direct Contact SSL of 7.07 mg/kg. In its disapproval letter (NMED, 2018), NMED indicated that although arsenic was not used in a manner described at the site, wood pieces treated with arsenic or metal containers containing arsenic residues may have been burned at the site at Feature 2. NMED required that the Army collect step-out samples five to ten feet in all directions at a depth that correlates to the contaminant detections and to collect a deeper sample at the same location as sample 0725F2SS009.

Manganese exceeds the NMED Human Health Direct Contact SSL of 464 mg/kg at multiple RFI sample locations, but concentrations are below the background value of 1,058 mg/kg (**Appendix B, Table B.4-5**). Aluminum slightly exceeds the lowest NMED Human Health Direct Contact SSL of 41,400 mg/kg at multiple sample locations; however, concentrations are below the Residential NMED Human Health Direct Contact SSL of 78,000 mg/kg. Copper was detected at 4,100 mg/kg at OTB03-5, which was above the NMED Human Health Direct Contact SSL of 3,130 mg/kg. NMED required that the Army further evaluate copper in soil in the vicinity of boring OBT03 at Feature 5 as well as investigate the dark area. Only one previous sampling location (0725F5SS003) was included in the dark area. NMED noted that the highest level of contamination is potentially in the dark area.

4.3.2 Data Gap Summary

The following data gaps have been identified for SWMU 25:

- The lateral and vertical extent of arsenic detected at sampling location 0725F2SS009-0.5-1.0DSO at Feature 2 are not defined.
- The lateral extent of copper detected 5 feet bgs at boring OBT03 is not defined.

The nature and extent of contamination at the dark area in Feature 5 at SWMU 25 is not defined.

4.4 PRELIMINARY CONCEPTUAL SITE MODEL

The preliminary CSM for SWMU 25 was prepared in accordance with the human health risk assessment guidance (NMED, 2022) and is shown on **Figure 4.5**. The primary source of potential contaminants is burning of trash. The primary release mechanism is burning on the ground surface. Secondary sources of potential contaminants are surface soils. Transport mechanisms may include wind erosion from contaminated surface soils, leaching and infiltration to subsurface soil, volatilization of contaminants in surface soil to air, infiltration and leaching to groundwater, and stormwater runoff and erosion of surface soil to surface water and sediment. Groundwater is 50 to 70 feet below the surface, and groundwater does not discharge to surface water. There are no year-round surface water bodies. Therefore, the surface water/sediment exposure pathways are incomplete.

There is potential for receptors to be exposed to contamination remaining from historical activities conducted at FWDA. The potential for exposure varies across Parcel 7 because it contains a mix of developed and open spaces that will support different types of land use. Current land use of Parcel 7 is as an out-of-use military installation undergoing remediation where the receptors could include commercial/ industrial workers and construction workers; however, there are no current construction activities occurring at SWMU 25. Current human receptors include commercial/industrial workers. The properties are anticipated to be transferred to other entities and therefore future use by residential, commercial/industrial workers, and construction workers is possible. However, the Permit (NMED, 2015; Attachment 7) requires that future residential land use be evaluated to support unrestricted future land use by the Army or other future owner, which includes both adult and child receptors.

The primary media of concern being addressed by this Supplemental RFI Work Plan are surface and subsurface soil. Potential exposure pathways are direct contact (including dermal contact, incidental ingestion, and inhalation of dust or particulates) and the soil leaching to groundwater pathways. There also is the potential for indirect exposure through the VI and beef ingestion pathways. These indirect exposures will be evaluated qualitatively where the exposure pathway analysis conducted at the time of the risk evaluation demonstrates they are complete.

SWMU 25 is a larger site (8 acres). SWMU 25 is large enough to potentially support cattle grazing. There are mostly vacant spaces that could support a wide range of future uses, including residential development and cattle grazing.

The groundwater exposure pathway is potentially complete for future hypothetical residents. Groundwater is assumed to be used as drinking water until it can be demonstrated that an alternate source of drinking water is readily available to replace groundwater as the primary drinking water source.

4.5 PROPOSED SUPPLEMENTAL RFI AT SWMU 25 TRASH BURNING GROUND PROPERTY DISPOSAL OFFICE

DQOs have been developed consistent with the USEPA DQO process. The overall project DQO is to provide representative, repeatable, high-quality data in order to complete the RFI process for

Parcel 7. DQOs specific to AOC 43 are presented in **Table 4.1.** Proposed sample locations are shown on **Figure 4.6 and 4.7** and sample analysis is shown on **Table 4.3**.

To address the NMED Comment #33 (NMED, 2018), additional characterization of arsenic is needed around sampling location 0725F2SS009-0.5-1.0DSO at Feature 2. Proposed boring 0725F2SB001 will be located adjacent to former location 0725F2SS009 and will extend to a depth of 10 feet bgs. Soil samples will be collected at approximately 1.5 to 2.0, 5.0 to 5.5, and 9.5 to 10.0 feet bgs and analyzed for arsenic (Method 6020B). Four step-out borings (0725F2SB002, 0725F2SB003, 0725F2SB004, and 0725F2SB005) will be advanced ten feet from former boring 0725F2SS009 and samples will be collected from 0.5 to 1.0 and 1.5 to 2.0 feet bgs using a hand auger and analyzed for arsenic (Method 6020B). Soil samples will be collected following the procedures in **Section 6.3.1**.

To address the NMED Comments #29, #32, #34, and #38 (NMED, 2018), additional characterization of copper is needed around previous sampling location 0725F2SS009-0.5-1.0DSO at Feature 2. One test pit will be located adjacent to OBT03 to evaluate the presence of material/waste that may be contributing to the copper detected. Three step-out borings (0725F5SB001, 0725F5SB002, and 0725F5SB003) will be advanced ten feet from former boring OTB03 and sampled at depth intervals 0.5 to 1.0, 1.5 to 2.0, 5.0 to 5.5, and 9.5 to 10.0 feet bgs and analyzed for TAL metals (Method 6020B). Soil samples will be collected following the procedures in **Section 6.3.1**.

Following completion of the initial RFI, there was a dark area present on aerial photographs that was uncharacterized. Therefore, this area was identified as a data gap, as there was a concern that the dark area was staining as a result of Army activities that may have left residual contamination. Additional characterization is needed in the dark area on the aerial photograph. The dark area appears to be ash from burned materials remaining on the ground surface. Three test pits will be advanced in the area to evaluate the presence of material/waste. The test pits will be advanced to four feet bgs, underneath the mounded ash. Ground surface is assumed to be the local elevation. Based on the test pit findings, three soil borings (0725F5SB004, 0725F5SB005, and 0725F5SB006) will be advanced where buried material/waste is identified, and samples will be collected from 5.0 to 5.5, and 9.5 to 10.0 feet bgs. If no waste is identified, then three borings will be evenly spaced within the area. These borings will extend to a depth of 10 feet bgs, and samples will be collected at 0 to 0.5, 1.5 to 2.0, 5.0 to 5.5, and 9.5 to 10.0 feet bgs and analyzed for TAL metals (6020B/7471B), chlorinated pesticides (8081B), herbicides (8321B), TPH-DRO (8015D), PCBs (8082A), SVOCs (SW8270E), VOCs (8260D), explosive compounds (8330B), and dioxins/furans (8290A) as shown in **Table 4.3**. Soil samples will be collected following the procedures in **Section 6.3.1**. If evidence of potential chemical release is observed during drilling, then up to two additional discrete soil samples per location will be collected from the interval exhibiting the highest odors, staining, or elevated PID readings.

Following the data collection and analysis, data will be evaluated as described in **Section 7**.

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5.0 AOC 43 – RAILROAD CLASSIFICATION YARD

This section summarizes the background, previous investigations, data gaps, presents the preliminary CSM, and provides details on the proposed Supplemental RFI sampling for AOC 43 – Railroad Classification Yard.

5.1 BACKGROUND

5.1.1 Location, Description, and Operational History

The AOC 43 – Railroad Classification Yard is located northwest of FWDA Administration Area and just south of the North Patrol Road, as shown on **Figure 5.1**. Based on the available historical information, the yard was most likely built in 1941 or 1942. The yard has an active capacity to accommodate 56 rail cars and an inactive capacity for 250 rail cars. The AOC 43 – Railroad Classification Yard was used to store railroad cars for extended periods. Chemicals of potential concern (COPCs) in this area include herbicides that were used across the area to suppress vegetative growth through the tracks, as well as various other contaminants associated with railroad activities such as oils, PCBs, explosives, and metals (AMEC, 2013).

5.1.2 Surface and Subsurface Conditions

The area comprising AOC 43 is generally flat and the vegetation cover consists of grass and sagebrush. The ground surface elevation increases to the southeast, sloping northwest from the Railroad Classification Yard and away from the Administration Area, and decreasing to the west and north where surface water drains to an arroyo running south to north. The classification yard lies on 6 to 8 feet of embankment (imported fill) and 0.5 to 1.0 foot of ballast material (AMEC, 2013). Subsurface conditions at AOC 43 consist of silts, clays, sands and gravel overlaying shallow rock.

5.2 PREVIOUS INVESTIGATIONS

Previous non-sampling data available for AOC 43 includes historical drawings and maps as presented in the HISD (AMEC, 2013). In addition, aerial imagery from 1935, 1948, 1952, 1958, 1962, 1966, 1973, 1978, 1985, 1991, 1993, 1997, and 2009 was available. Available aerial photography (ERI, 2006) suggests that activities at this area began somewhere between 1935 and 1948. Specific details regarding the aerial photos can be found in the HISD.

5.2.1 2014 RFI Investigation

Based on the approved RFI Work Plan (AMEC, 2013), sampling sites were located between the railroad ties. The railroad ballast and soils were removed by excavating a small pit using a rubber tire backhoe with a 12-inch-wide bucket. The soil samples were collected from the side of the pit using disposable scoops or metal hand trowels. The railroad ballast consisted of dark gray, gravelly, sandy fill that was typically 0.5 to 0.8 foot thick in the center of the track and thinned toward the outer edge. Plants have invaded this area and roots and rootlets are common in the upper ballast material. Underlying ballast is hard, red brown, sandy clay to clayey sand soil. Following sample collection, each pit was backfilled with the excavated material and the ground smoothed out using a shovel.

Based on comments from NMED (NMED, 2014), analysis was expanded to include TAL metals, explosive compounds, perchlorate, SVOCs, VOCs, DRO, nitrate-N, cyanide, PCBs, and dioxins/furans. All 24 soil samples were analyzed by EMAX Laboratories of Torrance, CA. NMED initially requested that white phosphorous also be added to the analyte list. Based on subsequent discussions between NMED and the Army, it was determined that sampling and analysis for white phosphorus was not necessary. The USACE Ordnance and Explosive Safety Section determined that there is no white phosphorus at AOC 43 based on chemical reactivity to air, terrain, and history of the site. FWDA did not store or dispose of white phosphorus munitions. Results are provided in **Appendix B** (**Tables B.5-1 through B.5-7**).

Samples were collected from 0.5 to 1.0 feet bgs from the native soil below the railroad ballast.

5.3 DATA GAP ASSESSMENT

NMED Disapproval comments dated October 29, 2018 were addressed as part of this Supplemental RFI Work Plan (**Appendix A**) and will be incorporated into the RFI Report.

5.3.1 Nature and Extent Evaluation

The nature and extent of contamination is based on the results of the initial RFI which are provided in **Appendix B** (**Tables B.5-1 through B.5-7**). Results that exceed NMED Human Health Direct Contact SSLs (NMED, 2022) are summarized on **Table 5.2**. In accordance with the Permit (NMED, 2015; Attachment 7), the nature and extent of contamination at Parcel 7 will be delineated to the residential NMED direct contact SSLs, or background values, if higher.

No explosives, cyanide, or PCBs were detected. VOCs, SVOCs, DRO, perchlorate, and nitrate were detected in one or more samples below Human Health SSLs. Only one dioxins/furans TEQ result was reported at 0.000062 mg/kg at 0743RCYSS010-0.0-0.5DSO, which was above the Human Health Screening Level of 0.000049 mg/kg. Manganese exceeds the lowest NMED Human Health Direct Contact SSL of 464 mg/kg at multiple RFI sample locations, but the majority of concentrations are below the background value of 1,058 mg/kg (**Appendix B, Table B.5-4**). Manganese concentrations are slightly greater than the background value at locations 0743RCYSS004-0.0-0.5DSO (1,320 mg/kg), 0743RCYSS005-0.0-0.5DSO (1,300 mg/kg), 0743RCYSS008-0.0-0.5DSO-DUP (1,100 mg/kg), and 0743RCYSS016-0.0-0.5DSO (1,190) but concentrations are less than the NMED Residential SSL of 10,500 mg/kg.

NMED commented that the extent of contamination is not delineated at sample location 0743RCYSS010 (NMED, 2018). The Army proposes to collect step-out and deeper soil samples to assess the lateral and vertical extent of dioxin/furan TEQ contamination along the railroad tracks.

5.3.2 Data Gap Summary

The following data gaps have been identified for AOC 43:

The extent of dioxins/furans is not delineated at sample location 0743RCYSS010.

5.4 PRELIMINARY CONCEPTUAL SITE MODEL

The preliminary CSM for AOC 43 was prepared in accordance with the human health risk assessment guidance (NMED, 2022) and is shown on **Figure 5.3**. The primary source of potential

contaminants is railroad car storage. The primary release mechanism is leaks, drips, and spills to the ground surface. Secondary sources of potential contaminants are surface soils. Transport mechanisms may include wind erosion from contaminated surface soils, leaching and infiltration to subsurface soil, volatilization of contaminants in surface soil to air, infiltration and leaching to groundwater, and stormwater runoff and erosion of surface soil to surface water and sediment. Groundwater is 50 to 70 feet below the surface, and groundwater does not discharge to surface water. There are no year-round surface water bodies. Therefore, the surface water/sediment exposure pathways are incomplete.

There is potential for receptors to be exposed to contamination remaining from historical activities conducted at FWDA. The potential for exposure varies across Parcel 7 because it contains a mix of developed and open spaces that will support different types of land use. Current land use of Parcel 7 is as an out-of-use military installation undergoing remediation where the receptors could include commercial/ industrial workers and construction workers; however, there are no current construction activities occurring at AOC 43. The properties are anticipated to be transferred to other entities and therefore future use by residential, commercial/industrial workers, and construction workers is possible. However, the Permit (NMED, 2015; Attachment 7) requires that future residential land use be evaluated to support unrestricted future land use by the Army or other future owner, which includes both adult and child receptors.

The primary media of concern being addressed by this Supplemental RFI Work Plan are surface and subsurface soil. Potential exposure pathways are direct contact (including dermal contact, incidental ingestion, and inhalation of dust or particulates) and the soil leaching to groundwater pathways. There also is the potential for indirect exposure through the VI and beef ingestion pathways. These indirect exposures will be evaluated qualitatively where the exposure pathway analysis conducted at the time of the risk evaluation demonstrates they are complete.

AOC 43 is a larger site (6.5 acres) with railroad tracks. AOC 43 is large enough to potentially support cattle grazing.

The groundwater exposure pathway is potentially complete for future hypothetical residents. Groundwater is assumed to be used as drinking water until it can be demonstrated that an alternate source of drinking water is readily available to replace groundwater as the primary drinking water source.

5.5 PROPOSED SUPPLEMENTAL RFI AT AOC 43 RAILROAD CLASSIFICATION YARD

DQOs have been developed consistent with the EPA DQO process. The overall project DQO is to provide representative, repeatable, high-quality data in order to complete the RFI process for Parcel 7. DQOs specific to AOC 43 are presented in **Table 5.1.**

Step-out borings and deeper soil samples are recommended to assess the lateral and vertical extent of dioxin/furan TEQ contamination along the railroad tracks to complete the investigation.

Proposed sample locations are shown on **Figure 5.4** and sample analysis is shown on **Table 5.2**. Concentrations of dioxins/furans TEQ were detected in soil sample 0743RCYSS010-0.5-1.0DSO at 0.000062 mg/kg above the screening value of 0.000049 mg/kg. Proposed boring 0743RCYSB001 will be located adjacent to the earlier surface soil sample 0743RCYSS010-0.5-1.0DSO. The boring will extend to a depth of 10 feet bgs, and samples will be collected at 5.0 to

5.5 and 9.5 to 10.0 feet bgs and analyzed for dioxins/furans. Soil samples will be collected following the procedures in **Section 6.3.1**.

Four step-out soil borings are proposed to be collected approximately 10 feet around former surface soil sample 0743RCYSS010-0.5-1.0DSO. Samples will be collected using a hand auger at 0.5 to 1.0 and 1.5 to 2.0 feet bgs and analyzed for dioxins/furans. Soil samples will be collected following the procedures in **Section 6.3.1**. If any of the initial sample results encounter obvious contamination (visible material, staining or odors, or the results are above Human Health Screening Levels (**Table 6.4**), additional step-out locations will be completed. The step-out locations will be placed at 10 foot intervals stepping out until the lateral extent of contamination is defined. Once the perimeter near the surface is confirmed, two of these locations will be advanced to a depth of 10 feet bgs to confirm contamination does not extend vertically. Samples will be collected at 5.0 to 5.5 and 9.5 to 10.0 feet bgs and analyzed for dioxins/furans.

Following the data collection and analysis, data will be evaluated as described in **Section 7**.

6.0 DESCRIPTION OF INVESTIGATION METHODS

This section provides general information regarding the planned field activities to be completed as part of this Supplemental RFI Work Plan. Information specific to individual SWMU and AOC areas are presented in **Section 3** through **Section 5**.

6.1 SITE SAFETY AND AWARENESS

All work will be accomplished in accordance with Army safety measures. A project-specific Accident Prevention Plan (APP)/Site Safety and Health Plan (SSHP) has been developed for sampling activities at FWDA. The APP/SSHP defines the roles and responsibilities of site personnel, establishes proper levels of personal protective equipment (PPE), and describes emergency response and contingency procedures. The associated Activity Hazard Analyses define hazards associated with each type of work activity and how those hazards will be mitigated. The APP/SSHP will be reviewed by site personnel prior to performing any site work. In addition, task-specific Activity Hazard Analyses will be reviewed before any new tasks are performed and periodically during daily tailgate safety meetings.

All work will be completed by a supervisor, operators, and technicians that have successfully completed 40-hour Hazardous Waste Operations and Emergency Response training in accordance with *29 U.S. Code of Federal Regulations* 1910.120. A dedicated Site Safety and Health Officer (SSHO) will be on site during all field activities associated with implementation of this Supplemental RFI Work Plan. The SSHO will be responsible for conducting site-specific training, daily tailgate safety meetings, and periodic safety inspections.

The SSHO will also be responsible for ensuring site monitoring, worker training, and effective selection and use of PPE. The SSHO will have completed the Occupational Safety and Health Administration (OSHA) 30-hour Construction Safety Course prior to being tasked to fill the position.

6.2 ASBESTOS CONTAINING MATERIALS

The field team will be briefed prior to initiation of the field work on identification of potential Asbestos Containing Materials (ACM) (e.g., materials at Fort Wingate that have previously been identified as ACM, such as roofing materials, floor tiles, insulation material, acoustic tile, etc.). If potential ACM is identified at the site, then up to 10 samples of different materials will be sent to the laboratory for confirmation as ACM. If the material is confirmed to be ACM, then the approximate extent of the debris will be documented and recommended for removal. Soil samples will be collected after removal of the debris to confirm the absence of asbestos in the soil.

6.3 SOIL SAMPLING AND ANALYSIS

This section provides general information regarding the methods that will be employed for various soil sampling activities to be completed during site activities. A summary of analytical methods, sample containers, preservatives, and holding times is provided in **Table 6.1**. The following sections provide details regarding sample collection and management, quality assurance (QA), and quality control (QC).

6.3.1 Subsurface Soil Sampling

The condition of all drilling, trenching, sampling, and support equipment used for subsurface soil sampling associated with each SWMU or AOC-specific investigation and the equipment cleaning procedures will be the same as defined in **Section 6.3.2**. Shallow subsurface samples (less than 2 feet) will be collected using a decontaminated hand auger. Deeper subsurface samples will be collected using direct-push technology or hollow-stem auger equipment utilizing decontaminated split spoons, as appropriate. All boreholes will have a complete record of borehole information as described in **Section 6.7.3**.

6.3.1.1 Direct Push or Hand Auger Method for Subsurface Soil

This section provides procedures for subsurface soil sampling using a direct push type rig (e.g., Geoprobe®), hand auger, or sampling from an excavator bucket. If a direct push rig is used, it shall be operated by an appropriately licensed driller.

Test pits will be advanced to evaluate potential disposal features at SWMU 25. Test pits will be dug with an excavator to approximately four feet deep and five feet long. Discrete samples will be collected from within the material in the sidewalls and at the bottom of the test pit using the backhoe/excavator bucket to determine if there is evidence of a release from disposal activities. If an excavator is used, it shall be operated by an appropriately licensed operator.

The Sampling Team shall complete the following steps to collect soil samples:

1. Spread clean plastic sheeting on the ground or table at each sampling location to keep sampling equipment clean and prevent cross-contamination.
2. Advance the hand auger, excavator, or direct push tool to the desired sample depth.
3. Collect the sample using an approved sampling tool (e.g., stainless steel or disposable spoon, trowel, or scoop) and scoop the soil from the auger bucket or acetate liner from the direct push rig starting at representative depth ranges as detailed in the work plan. For hand augering, use a new, clean auger bucket once the top of the sampling depth is reached.
4. Transfer the sample from the auger bucket or trowel into a large disposable or stainless-steel bowl and mix the combined soil thoroughly to ensure a representative sample. EXCEPTION: If collecting subsurface samples for VOC analysis, the sample will be collected directly from the sample equipment (e.g., auger bucket or acetate sleeve) using a Terra Core® sampler as described in **Section 6.3.1.3**. The soil shall not be mixed before sample collection.
5. Collect suitable quantities with the approved sampling tool and transfer directly into the laboratory supplied clean containers with a moisture-tight lid (or a re-sealable plastic bag for grain size samples).
6. Repeat these steps as necessary to obtain sufficient sample volume.
7. When sample containers are filled, secure the caps tightly on the containers. Lids will be sealed by labels or custody seals to prevent tampering.
8. The sample containers will then be placed into a cooler with ice and cooled to less than or equal to 6 degrees Celsius ($\leq 6°C$).

9. Log the soils from the soil core on a soil boring log, noting soil recovery, soil characteristics, visual or olfactory signs of contamination, and PID screening results. Soil from each sample will be screened with a PID. In addition, the soil core will be visually inspected for stains or anomalous texture, and PID measurements will be recorded from any stained or anomalous soils. Representative soil from each sample interval will be placed inside a new, clean plastic baggie, sealed, and then mixed with air in the bag. The bag with representative soil will be labeled with the sample ID and time and allowed to heat in sun for approximately 5 minutes. If air temperatures are below 50 degrees F, the bag with representative soil will be allowed to warm inside a building or vehicle for approximately 5 minutes. The PID probe will be inserted or penetrated into the plastic bag and the maximum reading will be recorded on the sample form or boring log, specifying the sample depth. If high sustained PID readings (greater than 100 ppm) are recorded, then additional samples may be collected.
10. After sampling is completed, backfill the hole with remaining soil to return the site to as close to original condition as possible.

6.3.1.2 Hollow-Stem Auger Method for Subsurface Soil

Soil drilling using the hollow-stem auger method will be accomplished using a truck-mounted auger rig of sufficient size and power to advance augers to the required drilling depth operated by an appropriately licensed driller.

The Sampling Team shall complete the following steps to collect soil samples:

1. Spread clean plastic sheeting on the ground or table at each sampling location to keep sampling equipment clean and prevent cross-contamination.
2. When drilling investigation boreholes, the lead hollow-stem auger will be advanced to the top of the soil interval to be sampled.
3. The selected soil sampling device then will be inserted into the auger string and advanced to the bottom of the soil interval. When using a split-spoon sampler, this device will be advanced to the required depth using a 63.5-kg (140-lb) hammer or continuously advanced with the auger string. When using a split-barrel sampler, this device will be hydraulically pushed to the required depth. Samplers used in non-cohesive soils may require the use of a decontaminated catch basket inserted into the shoe of the sampler to obtain recovery. A clean sampling device will be used to collect soil core from each sampled interval of the investigation boreholes.
4. Upon retrieval of the sampling device, the percentage of recovery will be recorded and the contained soil core will be split in half, lengthwise, using a stainless steel knife. Samples designated for laboratory analysis will be collected from the core using a stainless-steel scoop. EXCEPTION: If collecting subsurface samples for VOC analysis, the sample will be collected directly from the sample equipment (e.g., auger bucket or acetate sleeve) using a Terra Core® sampler as described in **Section 6.3.1.3**. The soil shall not be mixed before sample collection.
5. Immediately after discrete samples are collected and bottles are labeled, each sample container will be placed into a sealable plastic bag and then placed into an ice-filled cooler to ensure preservation. Remaining soil will be managed as IDW.

6. After soil samples are collected (to preserve sample integrity), the remaining lithologic samples will be fully described. Log the soils from the soil core on a soil boring log, noting soil recovery, soil characteristics, visual or olfactory signs of contamination, and PID screening results. Soil from each sample will be screened with a PID. In addition, the soil core will be visually inspected for stains or anomalous texture, and PID measurements will be recorded from any stained or anomalous soils. Representative soil from each sample interval will be placed inside a new, clean plastic baggie, sealed, and then mixed with air in the bag. The bag with representative soil will be labeled with the sample ID and time and allowed to heat in sun for approximately 5 minutes. If air temperatures are below 50 degrees F, the bag with representative soil will be allowed to warm inside a building or vehicle for approximately 5 minutes. The PID probe will be inserted or penetrated into the plastic bag and the maximum reading will be recorded on the sample form or boring log, specifying the sample depth. If high sustained PID readings (greater than 100 ppm) are recorded, then additional samples may be collected. After the contents of the sampler are measured, sampled, and described, the core will be discarded and handled as investigation-derived waste (IDW) as described in **Section 6.11**.
7. All borings will be abandoned by grouting to surface. For deeper borings (those extending into the water table), rigid tremie pipe will be extended to the bottom of the boring and pump grout through the pipe until undiluted grout flows from the boring at ground surface. For shallow borings (those not penetrating the water table), grout will be poured into the boring from the surface until grout flows from the boring at ground surface. Grout will be composed of 20 parts cement (Portland cement, Type II or V), up to one part bentonite, and a maximum of 8 gallons of approved water per 94-pound bag of cement.

6.3.1.3 Terra Core® Sampling Method for Soil

Samples requiring VOC analysis may be collected using EnNovative Technologies Terra Core® samplers. Terra Core® samplers limit the amount of volatilization that occurs during sampling, which allows for a more accurate and valid analytical result.

1. Prepare a Terra Core® sampler, and a 40mL VOA vial containing the proper preservative (sodium bisulfate water or methanol) and a magnetic stirring bar (if required).
2. With the plunger seated in the handle, push the Terra Core® sampler into the soil until the sample chamber is filled. Wipe all soil or debris from the outside of the Terra Core® sampler. The soil plug should be flush with the mouth of the sampler.
3. Rotate the plunger that was seated in the handle to 90° until it is aligned with the slots in the sampler body. Place the mouth of the sampler into the 40mL VOA vial and extrude the sample into the container by pushing the plunger down.
4. Quickly replace the lid of the 40mL VOA vial. When capping the VOA vial, be sure to remove any soil or debris from the top or threads of the vial. Place the collected sample on ice as soon as possible (if required by sample preservation method).

6.3.2 Decontamination Procedures

Equipment used to drill boreholes and collect soil samples during the investigation will be decontaminated within a temporary decontamination pad constructed at the SWMU or AOC. The

decontamination pad will be designed so that all decontamination liquids are contained from the surrounding environment and can be recovered for disposal as IDW. Drilling equipment will be decontaminated after each borehole is completed. The decontamination procedure for excavation and drilling equipment is as follows:

1. Remove caked soil material from the exterior of the buckets and/or augers and cutting heads using a rod and/or brush.
2. Steam clean the equipment interior and exterior with approved water using a brush where steam cleaning is not sufficient to remove all soil material.
3. Rinse thoroughly with approved potable water.
4. Allow equipment to air dry as long as possible.
5. Place equipment on clean plastic if it will be used immediately or wrap in plastic to prevent contamination if storage is required.

Non-dedicated sampling equipment will be decontaminated after each use during borehole interval sampling. The procedure for decontamination of sampling equipment will be as follows:

1. Wash with approved water and phosphate-free detergent using brushes required to remove particulate matter and surface films.
2. Rinse thoroughly with approved potable water.
3. If analyzing for metals and expecting high levels of contamination, rinse thoroughly with hydrochloric acid (2% solution) or nitric acid (10% solution).
4. Rinse thoroughly with American Society for Testing and Materials (ASTM) Type I or equivalent deionized/distilled water with analytical certification.
5. If analyzing for organics and expecting high levels of contamination, rinse thoroughly with solvent-pesticide grade isopropanol, acetone, or methanol, depending on analytes of interest.
6. Rinse thoroughly with ASTM Type I or equivalent deionized/distilled water with analytical certification.
7. Allow equipment to air dry as long as possible.
8. Place equipment on clean plastic if immediate use is anticipated or wrap in aluminum foil to prevent contamination if storage is required.

A final decontamination inspection of any equipment leaving the site at the end of field activities will be conducted to ensure proper decontamination.

6.4 QUALITY CONTROL

In order to attain data of sufficient quality to support project objectives, specific procedures are required to allow evaluation of data quality. The QA/QC procedures and requirements for their evaluation will comply with the U.S. Department of Defense Quality Systems Manual (QSM), Version 5.4 (U.S. Department of Defense, 2021).

6.4.1 Daily Progress Report

The Field Lead will be responsible for ensuring that all field activities are conducted in compliance with all work plans and requirements. The Field Lead will be on site during critical and complex field activities.

The Field Lead, with input from the Project Manager, will prepare Daily Progress Reports during field activities. Daily Progress Reports shall be submitted to the Government Project Manager the workday after the period covered by the report. The Daily Progress Report will contain the following information:

- Date(s) of work that the report covers
- Contract number and task order number
- Summary of weather conditions
- List of personnel on site and duties
- Equipment on site
- Location and description of work performed
- Subcontractor personnel on site and duties
- Subcontractor equipment on site
- Location and description of work performed by subcontractors
- Summary of QC inspections that took place and reference to QC reports

6.4.2 Field and Laboratory Quality Control Samples

Evaluation of field sampling procedures and laboratory equipment accuracy and precision requires the collection and evaluation of field and laboratory QC samples. **Table 6.2** summarizes the planned QC samples for this project. A description of each QC sample type is provided in the following sections.

6.4.2.1 Quality Control Analyses Originated by the Field Team

Field QC samples will be collected to determine the accuracy and precision of the analytical results. The QC sample frequencies are stated in the following sections.

Equipment Blank

Equipment blanks will be collected to monitor the cleanliness of sampling equipment and the effectiveness of decontamination procedures. Contamination from the sampling equipment can bias the analytical results high or lead to false positive results being reported. Equipment blanks will be prepared by filling sample containers with laboratory-grade contaminant free water that has been passed through a decontaminated or unused disposable sampling device. The required QC limits for equipment blank concentrations are to be less than the method's reporting limit.

Equipment blanks will be collected at a frequency of 10% per sampling apparatus. Samples associated with equipment blanks that have detected target compounds will be assessed during the data validation process. The usability of the associated analytical data will be documented and affected data will be appropriately qualified. Field corrective action to improve equipment

decontamination procedures may also be implemented by the Field Lead at the request of the project chemist.

Field Duplicate

Field duplicates are collected in the field from a single aliquot of the sample to determine the precision and accuracy of the field team's sampling procedures. Field duplicates will be collected and analyzed at a frequency of 10% (i.e., one field duplicate sample will be collected for every ten samples collected). Field duplicates are indicated on **Table 3.3**, **Table 4.3**, and **Table 5.3.**

Trip Blank

Trip blanks are used to monitor for contamination during sample shipping and handling, and for cross-contamination through volatile component migration among the collected samples. They will be prepared in the laboratory by utilizing EPA standard methods for SW8260C blank sample preparation and bottle preservation methods. They are then sealed, transported to the field, and transported back to the laboratory in the same cooler as the volatile component samples. One trip blank sample set will accompany each volatile component sample cooler.

6.4.2.2 Quality Control Analyses/Parameters Originated by the Laboratory

Method Blank

Method blanks are used to monitor each preparation or analytical batch for interference and/or contamination from glassware, reagents, and other potential sources within the laboratory. A method blank is a contaminant-free matrix (laboratory reagent water for aqueous samples or Ottawa sand, sodium sulfate, or glass beads [metals] for soil samples) to which all reagents are added in the same amount or proportions as are added to the samples. It is processed through the entire sample preparation and analytical procedures along with the samples in the batch.

There will be at least one method blank per preparation or analytical batch. If a target compound is found at a concentration that exceeds one-half the reporting limit, corrective action must be performed in an attempt to identify and, if possible, eliminate the contamination source. If sufficient sample volume remains in the sample container, samples associated with the blank contamination should be reprocessed and reanalyzed after the contamination source has been eliminated.

Laboratory Control Sample

The laboratory control sample (LCS) will consist of a contaminant-free matrix such as laboratory reagent water for aqueous samples or Ottawa sand, sodium sulfate, or glass beads (metals) for soil samples spiked with known amounts of compounds that come from a source different than that used for calibration standards. Target compounds will be spiked into the LCS. The spike levels will be less than or equal to the midpoint of the calibration range. If LCS results are outside the specified control limits, corrective action must be taken, including sample re-preparation and re-analysis, if appropriate. If more than one LCS is analyzed in a preparation or analytical batch, the results for each LCS must be reported. Any LCS recovery outside QC limits affects the accuracy for the entire batch and requires corrective action.

Matrix Spike/Matrix Spike Duplicate

A sample matrix fortified with known quantities of specific compounds is called a matrix spike (MS). It is subjected to the same preparation and analytical procedures as the native sample. For this

project, all target compounds will be spiked into the MS sample. Sample MS recoveries are used to evaluate the effect of the sample matrix on the recovery of the analytes of interest. A matrix spike duplicate (MSD) is a second aliquot of the MS sample, fortified at the same concentration as the MS. The relative percent difference (RPD) between the results of the MS duplicates measures the precision of sample results.

Project-specific samples will be used by the laboratory for the MS/MSD samples, which will be designated on the chain-of-custody (COC) form. The spike levels will be less than or equal to the midpoint of the calibration range. Pairs of MS/MSDs will be collected at a frequency of 5 %. MS/MSDs are required in every analytical batch regardless of the rate of collection and how samples are received at the laboratory.

6.4.3 Data Precision, Accuracy, Representativeness, Comparability and Completeness

Field QA/QC samples and laboratory internal QA/QC samples are collected and analyzed to assess the data's quality and usability. The following sections discuss the parameters that are used to assess the data quality.

Precision

The precision of laboratory analysis will be assessed by comparing the analytical results between MS/MSD and laboratory duplicate samples. The precision of the field sampling procedures will be assessed by reviewing field duplicate sample results. The RPD will be calculated for the duplicate samples using the equation:

$$\%RPD = \{(S - D)/[(S + D)/2]\} \times 100$$

where:

S = first sample value (original value)
D = second sample value (duplicate value)

The precision criteria for the duplicate samples will be ±50% in soil samples.

Accuracy

Accuracy of laboratory results will be assessed for compliance with the established QC criteria using the analytical results of method blanks, reagent/ preparation blanks, LCS and MS/MSD samples and surrogate results, where applicable. Laboratory accuracy will be assessed for compliance with the established QC criteria listed in Appendix C of the QSM (U.S. Department of Defense, 2021). The percent recovery (%R) of LCSs will be calculated using the equation:

$$\%R = (A/B) \times 100$$

where:

A = the analyte concentration determined experimentally from the LCS

B = the known amount of concentration in the sample

Completeness

The data completeness of laboratory analyses results will be assessed for compliance with the amount of data required for decision making. Complete data are data that are not rejected. Data with qualifiers such as "J" or "UJ" are deemed acceptable and can be used to make project

decisions as qualified. Data qualifiers are listed in **Table 6.3**. The completeness of the analytical data is calculated using the equation:

%Completeness = [(complete data obtained)/(total data planned)] x 100

The percent completeness goal for this sampling event is 90% for each analytical method.

Representativeness

Representativeness is the degree to which sampling data accurately and precisely represent site conditions and is dependent on sampling and analytical variability and the variability of environmental media at the site. Representativeness is a qualitative "measure" of data quality.

Achieving representative data in the field starts with a properly designed and executed sampling program that carefully considers the project's overall objectives. Proper location controls and sample handling are critical to obtaining representative samples.

The goal of achieving representative data in the laboratory is measured by assessing accuracy and precision. The laboratory will provide representative data when the analytical systems are in control. Therefore, representativeness is a redundant objective for laboratory systems if sample COC records and sample preservation are properly documented, analytical procedures are followed and holding times are met.

Comparability

Comparability is the degree of confidence to which one data set can be compared to another Comparability is a qualitative "measure" of data quality.

Achieving comparable data in the field starts with a properly designed and executed sampling program that carefully considers the project's overall objectives. Proper location controls and sample handling are critical to obtaining comparable samples.

The goal of achieving comparable data in the laboratory is measured by assessing accuracy and precision. The laboratory will provide comparable data when analytical systems are in control. Therefore, comparability is a redundant QC objective for laboratory systems if proper analytical procedures are followed and holding times are met.

Sensitivity

Sensitivity is the ability of the method or instrument to detect the contaminant of concern and other target compounds at the level of interest. Appropriate sampling and analytical methods will be selected that have QC acceptance limits that support the achievement of established performance criteria. Elevated sensitivities due to dilutions caused by matrix interference will be communicated in the case narrative of the laboratory report. If necessary, clean-up methods such as sulfuric acid, florisil cartridge, and copper clean-up for parameters such as pesticides and PCBs will be employed to get rid of interferences.

For this project, the performance criteria are the Human Health Soil Screening Levels (SSLs) and Ecological Screening Levels (ESLs) presented in the NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2017 and 2022). The NMED SSLs and ESLs will be used to evaluate contaminant concentrations in soil samples. For human receptors, if NMED does not have a published SSL, then a USEPA Regional Screening Level (RSL) will be used if one is published (USEPA, 2023 and 2024). Assessment of analytical sensitivity will require thorough

data validation. NMED SSLs (or EPA RSLs), groundwater protection SSLs, and NMED ESLs are provided in **Table 6.4** through **Table 6.6**, respectively. A comparison of the NMED SSLs (or EPA RSLs), groundwater protection SSLs, and NMED ESLs to laboratory Limits of Quantitation (LOQs) is provided in **Table 6.7,** and **Table 6.8** includes an evaluation of analytes with LOQs that are greater than the lowest screening level. The LOQ is met for the direct contact screening levels for all analytes listed except dibenz(a,h)anthracene analyzed via SW8270E. If dibenz(a,h)anthracene is identified as a COPC, then it is recommended that PAHs be analyzed via SW8270E-SIM to reduce the LOQ below the direct contact screening level. At this time, dibenz(a,h)anthracene is not a COPC for the SWMUs/AOCs being evaluated in this Supplemental Work Plan.

6.4.4 Data Verification and Data Review Procedures

Personnel involved in data validation will be independent of any data generation effort. The project chemist will be responsible for the oversight of data verification, review, and validation. Data verification and review will be performed when the data packages are received from the laboratory. Verification will be performed on an analytical-batch basis using the summary results of calibration and laboratory QC, as well as those of the associated field samples. There are five stages of review defined in the DoD General Data Validation Guidelines (DoD, November 2019):

Stage 1: Verification and validation based only on completeness and compliance of sample receipt condition checks.

Stage 2A: Verification and validation based on completeness and compliance checks of sample receipt conditions and ONLY sample-related QC results.

Stage 2B: Verification and validation based on completeness and compliance checks of sample receipt conditions and BOTH sample-related and instrument-related QC results.

Stage 3: Verification and validation based on completeness and compliance checks of sample receipt conditions, both sample-related and instrument-related QC results, AND recalculation checks.

Stage 4: Verification and validation based on completeness and compliance checks of sample receipt conditions, both sample-related and instrument-related QC results, recalculation checks, AND the review of actual instrument outputs.

For this project, 100% of the data packages will undergo data verification and data review, 100% to Stage 2B, and 10% to Stage 4 in accordance with DoD General Data Validation Guidelines and DoD published data validation modules. Data validation will be performed by Parsons using automated data review software and/or manual data validation. The laboratory will submit the following data deliverables, a Stage 4 data package in PDF format as described in the DoD General Data Validation Guidelines and an electronic data deliverable (EDD) using the Staged Electronic Data Deliverables (SEDD) format in accordance with the most recently published version (SEDD Specification Document 5.2, Revision 1.1, October 2019).

Stage 2 analytical laboratory reports in a digital format with searchable electronic data tables will be included in the RFI Report.

6.4.5 Data Assessment

Limitations on data usability will be assigned, if appropriate, as a result of the validation process described earlier. The results of the data validation will be discussed in a separate report so that overall data quality can be verified through the precision, accuracy, representativeness, comparability, and completeness of sample results.

6.5 CHAIN OF CUSTODY

COC forms will be completed for each sample and will accompany each sample at all times. Data on the COC form will include the sample identification (ID) (as described in **Section 6.10**), depth interval, date sampled, time sampled, project name, project number, and signatures of those in possession of the sample. The COC forms will accompany those samples shipped to the designated laboratory so that sample possession information can be maintained. The field team will retain a separate copy of the COC form at the field office. Additionally, the sample ID, date and time collected, collection location, and analysis requested will be documented in the field logbook as discussed in **Section 6.7**.

6.6 PACKAGING AND SHIPPING PROCEDURES

All samples will be shipped by overnight air freight to the laboratory or hand delivered. Unless otherwise indicated, samples will be treated as environmental samples, shipped in heavy duty coolers, packed in materials to prevent breakage (such as bubble wrap), and preserved with ice in sealed plastic bags. Each shipment will include the appropriate field QC samples (i.e., trip blanks, duplicates, and rinsates).

Corresponding COC forms will be placed in waterproof bags and taped to the inside of the cooler lids. Each cooler shipped from the laboratory containing aqueous sample bottles for VOC analyses will contain a trip blank. The trip blank will stay with the cooler until the cooler is returned to the analytical laboratory. All coolers will be taped shut and a custody seal will be placed over the tape to prevent tampering.

6.7 SAMPLE DOCUMENTATION

6.7.1 Field Logbook

All information pertinent to on-site environmental task activities, including field instrument calibration data, will be recorded in field logbooks or on field forms.

All logbooks or field forms will be completed in accordance with instruction defined in Appendix F of the *Requirements for the Preparation of Sampling and Analysis Plans* (USACE, 2001). The logbooks will be bound and the pages will be consecutively numbered. Field forms, which are a project-specific collection of forms, will be bound by a three-ring binder, comb-binding, or equivalent or contained in electronic format (i.e., field sheet on a tablet computer) and will capture specific field data, similarly to a field logbook. Logbooks and field forms should be produced on waterproof paper when possible. Entries in the logbooks or forms will be made in black waterproof ink and must be clear, objective, and legible. Entries will include, at a minimum, a description of each day's activities, individuals involved in environmental task activities, date and time of drilling or sampling, weather conditions, any problems encountered, significant events, and all field measurements. Dates are recorded in the month/date/year format; time is recorded in the 24-hour military clock format. Changes will be made by striking through the original entry in a manner

that does not obliterate the original entry. The person making the change will initial and date the change.

Calibration logs will include instrument name, serial number, calibration data, and date of calibration. Lot numbers, manufacturer name, and expiration dates of standard solutions used for field instrument calibration also will be recorded.

Sufficient information will be recorded in the logbooks to permit reconstruction of all environmental task activities conducted. Information recorded on other project documents (e.g., boring logs, well construction diagrams, well development records, electronic records) will not be repeated in the logbooks except in summary form where determined necessary. All field logbooks will be kept in the possession of field personnel responsible for completing the logbooks, or in a secure place when not being used during fieldwork. All electronic forms of data collection will be backed-up a minimum of once per day. All logbooks will have a distinct project identification number and an inventory will be maintained. Upon completion of the field activities, all logbooks will become part of the project evidence file. The title page of each logbook will be labeled with the following information:

- Logbook title;
- Project name;
- Logbook inventory identification number;
- USACE, Albuquerque District/other U.S. Army contract number and project delivery order number;
- Start date for field activities; and
- End date for field activities.

Logbook and field form entries will be a compilation of relevant, factual events as they occur. Entries recorded in logbooks can include, but not be limited to, the following information:

- Name and title of author, date, and times of arrival at and departure from the work site;
- Purpose of the drilling, sampling and/or remedial activity;
- Name and contact information of the field manager;
- Names and responsibilities of field crew members;
- Names and titles of any visitors;
- Weather and site conditions;
- Field observations;
- Sample collection or task accomplishment method;
- Amount of materials used or removed;
- Number and volume of sample(s) collected;
- Sample identification number(s);

Date and time of sample collection, and name of collector;

Sampling type and methodology;

Sample preservation methods;

Details of the sampling location, including a sketch map illustrating the sampling location;

Location, description, and log of sampling point photographs;

References for all maps and photographs of the sampling site(s);

Information regarding drilling decisions not recorded on the boring log;

Types of field instruments used and the purpose of use, including calibration methods and results;

Sample documentation information, including

- Chain of Custody record numbers; and
- Number of shipping containers packaged (including contained chain-of-custody records) and the shipping method employed (noting applicable tracking numbers).

Sample distribution and transportation (e.g., name and address of the laboratory and courier);

Name and address of the U.S. Army QA laboratory for the project and the associated project Laboratory Information Management System (LIMS) number, where applicable;

Information from containers, labels of reagents used, deionized and organic-free water used;

Decontamination procedures;

Type, matrix, and containerization method for IDW generated;

IDW documentation information, including:

- Types of containers/drums;
- Contents, type, and approximate volume of waste;
- Type of contamination and predicted level of contamination based on available information (i.e., generator knowledge);
- Weekly visual inspection information.

Summary of daily task (including costs where appropriate) and documentation on any cost or scope or work changes required by field conditions;

Information regarding sampling changes, scheduling modifications, and change orders;

Information regarding access agreements, if applicable;

Signature and date of personnel responsible for recorded observations; and

Signature and date of personnel responsible for verifying the QC review of the logbook and/or field form, including but not limited to, accuracy, completeness, legibility, consistency, and clarity.

Copies of the field logbooks will be included in the final report.

6.7.2 Photographs

Representative photographs will be taken of the investigative activities, soil borings, and any significant observations made during the field effort. Photographs will be included in the final report.

6.7.3 Boring Logs

Each borehole log generated during the RFI will fully describe the subsurface environment and the procedures used to gain that description. Guidance on field logging of soil and rock may be found in ASTM D5434-09, Standard Guide for Field Logging of Subsurface Explorations of Soil and Rock (ASTM, 2009). Original borehole logs will be of sufficient legibility and contrast to provide comparable quality in reproduction and will be recorded directly in the field without transcribing from a field book or other document. Final boring logs reviewed by a licensed Professional Geologist will be included in the final report.

All borehole logs generated during the RFI will contain the following:

Unique borehole/monitoring well number and location denoted on a sketch map as part of the log.

Depths recorded in feet and decimal fractions thereof (tenths of feet).

Field estimates of soil classification (Unified Soil Classification System) in accordance with ASTM D2488-17e1, Standard Practice for Description and Identification of Soils (Visual Manual Procedures) prepared in the field at the time of sampling by the site geologist.

Full description of each soil sample collected.

Visual numeric estimates of secondary soil constituents and quantitative definitions of description terms (e.g., trace, little, some) recorded on the log.

Full description, to the greatest extent practical, of bedrock material encountered.

Description of disturbed samples (if used to supplement subsurface description) in terms of the appropriate soil/rock parameter, to the extent practical. At a minimum, classification along with a description of drill action for the corresponding depth will be recorded. Notations will be made on the log that these descriptions are based on observations of disturbed material rather than intact samples.

Description of drilling equipment, including such information as auger size (inner and outer diameter), bit types, compressor type, rig manufacturer, and model.

Sequence of drilling activities.

Any special problems encountered during drilling and their resolution.

Dates and times for the start and completion of the borehole along with notation by depth for drill crew shifts and individual days.

Each sequential boundary between various soil types and individual lithologies.

For a rock core, a scaled graphic sketch of the core should be provided on or with the log denoted by depth location, orientation, and nature (natural or coring-induced) of all core breaks. If fractures are too numerous to be individually shown, their location may be drawn as a zone and described on the log.

Intervals of lost core.

The depth of first encountered free water along with the method of determination and any subsequent distinct water level(s) encountered thereafter. Before proceeding, the first encountered water will be allowed to partially stabilize (from 5 to 10 min) and recorded along with the time between measurements.

Interval by depth for each sample collected, including the length of sampled interval, length of sample recovery, blow counts, and the sampler type and size (diameter and length).

Total depth of drilling and sampling.

Results of soil core organic vapor scan readings and soil sample organic vapor headspace readings. Notation will include interval sampled, corresponding vapor readings, and key to the specific instrument used to obtain readings. A general note will be made on the log indicating the manufacturer, model, serial number, and calibration information for each instrument used.

Definition of any special abbreviations used at the first occurrence of their usage.

6.8 FIELD INSTRUMENT CALIBRATION

All field instruments will be calibrated following manufacturer recommended calibration procedures and frequencies. Field instruments may include, but are not limited to, air quality meters such as PIDs and multi-gas meters. Field instrument calibrations will be recorded in a designated portion of the field logbook at the time of the calibration. Adverse trends in instrument calibration behavior will be corrected.

6.9 SURVEY OF SAMPLE LOCATIONS

The location of each sample collected will be surveyed using appropriate instrumentation and procedures to obtain horizontal accuracy of less than 0.1 foot. A Trimble Total Station GPS, Trimble Static GPS, or equivalent, will be used to document each soil sample location. A North American Datum 1983 Northing and Easting in U.S. Survey Feet will be established for all surveyed points and recorded in a dedicated field notebook. Survey data will be supplied in the Final Report in New Mexico State Plane and Universal Transverse Mercator Index coordinates.

6.10 SAMPLE IDENTIFICATION

During sampling, unique sample ID numbers will be assigned to each sample or subsample. Each sample ID number will consist of a combination of the Parcel number, SWMU/AOC number, additional site identifier, source of sample, increment or boring number, type of sample, and depth

of sample collection in accordance with the latest version of the FWDA *Environmental Information Management Plan* (USACE, 2007). Following is an example sample number and a description of the sample identifiers to be used during implementation of this Supplemental RFI Work Plan.

Example Sample ID: 0709POLSB001-0.5-1.0DSO

Parcel: 07

SWMU or AOC: in this case SWMU 09

Additional Site Identifier: in this case POL for POL Area

Source of Sample: in this case SB (soil boring)

Increment Number: Samples collected within each SWMU/AOC will be assigned sequential

2-digit or 3-digit numbers (in this case 001)

Depth Range: In feet (in this case 0.5 to 1.0 foot)

Type of Sample: D (discrete)

Matrix: SO (Soil)

QA/QC samples will carry the same sample nomenclature as the parent sample with a unique suffix and numeral (if required) to distinguish individual samples. Field duplicate samples will be submitted blind to the laboratory and will have a different sample ID than the parent. Equipment rinsate blanks, trip blanks, and field blanks will carry the sample location identifier with an additional designation of TBXX or EBXX (where XX represents the sequence number of the sample). Each blank will have a unique tracking number.

6.11 INVESTIGATION-DERIVED WASTE

Three types of IDW may be generated during the sampling of environmental media during the Parcel 7 Supplemental RFI activities: residual soil volume, decontamination fluids, and disposable sampling equipment/PPE. Proper management of this IDW is required to ensure compliance with federal, state, and Army regulations applicable to the collection, storage, transport, and disposal of potentially hazardous materials. Required IDW management measures for FWDA investigations or remedial activities will be waste segregation, containerization and labeling, temporary storage, waste characterization, and disposal.

Generated IDW will be segregated at each given soil boring location, SWMU, or AOC. Process knowledge for the SWMU or AOC, such as historical operational records, previous analytical data, and field screening results obtained during an investigation or remedial action, will be used when available to segregate potentially hazardous IDW from non-hazardous IDW. Generated IDW will be segregated within areas not associated with a SWMU or AOC by locale. These preliminary categorizations of IDW will only be qualitative; the application of process knowledge is intended to minimize costs associated with the handling, transportation, and disposal of wastes.

Field personnel will place soil and sediment IDW in open-head drums or covered roll-off containers. Field personnel will dispose of used, non-decontaminated sampling equipment and PPE in polyethylene trash bags which will be placed in removable-head drums. Drums and tanks will conform to United Nations Performance-Oriented Packaging standards and Department of

Transportation (DOT) specifications in 49 Code of Federal Regulations (CFR) 178. General refuse and decontaminated sampling equipment and PPE will be placed in polyethylene trash bags or other suitable containers.

Field personnel will collect representative samples from each container of soil or decontamination fluids consisting of a composite of the material to characterize IDW for disposal as hazardous, special, or non-hazardous waste. Samples may be collected as containers are filled at the SWMU, AOC, or soil boring location, or within five days of transfer to the satellite area. The analytical laboratory will provide analysis results within 15 days of sampling. Characterization results for these media will serve to classify associated sampling equipment and PPE for disposal unless the PPE and equipment were decontaminated prior to disposal, in which case it will be handled as general refuse. Small volumes of decontamination fluids are anticipated. Decontamination fluids will be contained within the temporary decontamination pad areas during active sampling and decontamination activities at a site. Accumulated wash and rinse water will be transported and disposed of at the evaporation tank.

A complete list of waste characterization parameters and analytical methods approved by the U.S. Environmental Protection Agency (USEPA) is published in Test Methods for Evaluating Solid Waste, Physical/Chemical Methods (SW-846). Process knowledge will be used to evaluate the physical state of the IDW to determine which specific parameters will be required to properly characterize waste generated from a given SWMU, AOC, or soil boring/well location. In addition, all required waste characterization parameters will be determined based on the specific requirements of the landfill accepting the IDW.

A label reading “Caution: This Drum/Container May Contain Hazardous Material” or similar will be affixed to each container containing IDW. In addition, each drum, roll-off, or portable tank containing IDW will be labeled with a unique 12-character identifier: The first two characters are "FW;" the second two are the SWMU, AOC, or soil boring number; the next six are the date, month, and year (dd/mm/yyyy) on which filling commenced; and the last two are the consecutive number of the container among all being filled on a given day. Characterization sampling will be composite samples of the segregated groups as listed above. Sample analysis will be consistent with the constituent of concerns as listed in the Work Plan and will include flash point, reactivity, corrosivity, toxicity tests. A DOT-certified hazardous waste transporter and disposal company will be contacted and will collect the hazardous IDW and ship it offsite to the disposal facility within 90 days. Shipment volume and disposal documentation will include waste manifests and confirmation of receipt by the receiving waste disposal facility.

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7.0 EVALUATION OF HUMAN HEALTH AND ECOLOGICAL RISKS

This Supplemental RFI will build on the data previously collected in Parcel 7 in support of an RFI. The data collected during this Supplemental RFI will fill data gaps identified during review of the historic data as well as provide data to support risk assessment. The evaluation of data to be conducted during the RFI will include all data collected in Parcel 7, including historic data, RFI data, and data collected in support of this Supplemental RFI.

All activities conducted as part of this Supplemental RFI Work Plan will be documented in the RFI Report. The report will contain, at a minimum, a detailed schedule of completed activities, a "Deviations" section that details any deviations from the approved work plan and includes justification for said deviations, a summary of analytical data, and an evaluation of data comparing results to the appropriate screening levels, including an evaluation of cumulative risk. The approach to be used in the cumulative risk evaluation is described in the following sections and is based on the requirements contained in the NMED Risk Assessment Guidance for Site Investigations and Remediation (NMED, 2017 and 2022).

7.1 HUMAN HEALTH RISK ASSESSMENT

The human health screening level risk assessment will be performed after nature and extent of contamination has been fully defined. The general steps for conducting the human health screening risk assessment per Section 1.3 of the *NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume I, Soil Screening Guidance for Human Health Risk Assessments* (NMED, 2022) are as follows:

Step 1: Determine COPCs (further discussed in **Section 7.1.5.1**). This includes conducting a site attribution analysis and elimination of some constituents through comparison of site concentrations to background levels (**Section 7.1.5.2**).

Step 2: Compare maximum detected site concentrations for COPCs to the direct contact SSLs for applicable receptors (**Table 6.4**). The Conceptual Site Models (CSMs) for current or future receptors including residents, industrial/commercial workers, and construction workers are shown on **Figure 3.2** for SWMU 9**, Figure 4.5** for SWMU 25**,** and **Figure 5.3** for AOC 43. If a chemical presents both carcinogenic and noncarcinogenic health toxicity, compare to both screening levels, if available.

> If the resulting Hazard Index (HI) (sum of all hazard quotients, HQs) is less than 1.0, stop; no additional assessment for noncarcinogens is needed. Move to Step 5.
>
> If resulting cancer risk (sum of all cancer risks) is less than 1E-05, stop; no additional assessment for carcinogens is required. Move to Step 5.

Risks/hazards across all applicable pathways will be included in the comparison to NMED target levels of 1E-05 and 1 (**Section 7.1.5.3**). Any risk/hazard from vapor intrusion or other site-specific pathway will be added to the summed risk/hazard calculated using the SSLs (**Section 7.1.5.3**). The beef ingestion pathway will be addressed in the Uncertainty Section of the RFI Report.

Step 3: If Step 2 results in adverse risk/hazard, calculate refined exposure point concentrations (EPCs) (**Section 7.1.5.3**).

Step 4: Compare EPCs to the applicable SSLs for each receptor (**Section 7.1.5.3**):

If the resulting Hazard Index (HI) is less than 1.0, stop; no additional assessment for noncarcinogens is needed. Move to Step 5.

If resulting cancer risk is less than 1E-05, stop; no additional assessment for carcinogens is required. Move to Step 5.

Step 5: Compare the site concentrations to the soil-to-groundwater target soil leachate concentrations (based on a dilution attenuation factor of 20). Maximum detected concentrations should be applied first, followed by use of a refined EPC and/or site-specific data, if the initial comparison results in an exceedance of the applicable soil-to-groundwater target soil leachate concentrations (**Section 7.1.5.4**).

Step 6: Discuss Uncertainties (**Section 7.1.5.5**).

Step 7: If Step 4 and/or Step 5 results in excess risk/hazard or potential to impact groundwater, conduct additional site-specific refinements of the assessment and/or implement corrective actions (**Section 7.1.5.6**).

These steps are further discussed in **Section 7.1.5**.

An evaluation of potential human health risks will be conducted for the SWMUs, and AOCs within Parcel 7 as described in this section. The SWMUs and AOCs to be evaluated are listed below:

SWMU 9: Petroleum, Oils, and Lubricants (POL) Waste Discharge Area (POL Area);

SWMU 25: Trash Burning Ground Property Disposal Office;

AOC 43: Railroad Classification Yard.

The data to be used in the evaluation will include the results from this Supplemental RFI, as well as the results from the initial RFI.

Evaluation of ecological risks is presented in **Section 7.2.**

7.1.1 Define NMED Target Risk Thresholds

The NMED risk guidance for human health (NMED, 2022; Section 1.2.3 and Section 5) identifies two target risk thresholds that are used to evaluate if cancer risks and noncancer hazards are acceptable. According to NMED, adverse health impacts are unlikely when the cancer risk is less than $1x10^{-5}$ for carcinogenic analytes, and when the hazard index (HI) is less than 1.0 for noncarcinogenic analytes. These are the target risk thresholds that will be used in the human health risk evaluation for Parcel 7.

7.1.2 Selection of Screening Levels

Soil is the only medium that will be evaluated for Parcel 7, through use of screening levels selected to reflect the requirements of the Permit (NMED, 2015; Attachment 7, Section 7.2) and the NMED risk guidance (NMED, 2022). Human health soil screening levels are in **Table 6.4** and **Table 6.5**. The hierarchy of soil screening levels is provided below:

Screening levels published by NMED in Appendix A of the NMED risk guidance (NMED, 2022) were selected as the screening levels as described further below:

a. Direct contact pathway – SSLs for residential receptors, commercial/industrial workers, and construction workers will be considered in the human health risk evaluation, with the exception of arsenic in soil where NMED is allowing use of the site-specific background level of 5.6 mg/kg in lieu of the NMED screening level. Additional discussion about arsenic and background levels for other metals is provided in **Section 7.1.5.2**. Both carcinogenic and noncarcinogenic endpoints are evaluated for those analytes exhibiting both types of effect.

b. Soil leaching to groundwater pathway – NMED publishes up to four SSLs for each analyte. Two of the four SSLs are based on risk-based values to which dilution attenuation factors (DAFs) of 1 and 20 have been applied. The remaining two SSLs are based on drinking water standards to which DAFs of 1 and 20 have been applied. Use of the SSLs is allowed by NMED based on a DAF of 20 as reasonably protective (NMED, 2022; Section 4.4) and allows use of the least conservative SSL between the risk-based and drinking water based SSLs (NMED, 2022; Section 4.9).

For analytes without an NMED SSL, RSLs published by EPA for residential and industrial receptors for soil are selected (USEPA, 2023, 2024). The EPA RSLs are based on a noncancer endpoint corresponding to the NMED target hazard quotient (HQ) of 1.0 for noncarcinogenic analytes. The EPA RSLs based on a cancer endpoint have been adjusted to a cancer risk of $1x10^{-5}$ for consistency with the NMED target risk threshold of $1x10^{-5}$(NMED, 2022; Section 1.2). The USEPA risk-based SSLs for the protection of groundwater will be adjusted to a DAF of 20 for consistency with the NMED presumption that this DAF is reasonably protective.

Analytes without screening levels published by NMED or USEPA will be evaluated using surrogate analytes that are structurally similar or that provide a conservative estimate of toxicity. Surrogate analytes are identified in **Table 6.4** through **Table 6.8**. The uncertainty introduced by use of surrogate analytes in the risk evaluation, or the lack of appropriate surrogate for quantitative evaluation, will be addressed in the uncertainty discussion, where applicable. **Table 6.8** includes an evaluation of analytes with LOQs that are greater than NMED SSLs (or EPA RSLs).

7.1.3 Preliminary Exposure Pathway Evaluation

The NMED risk guidance (NMED, 2022) requires the evaluation of four types of exposure to COPCs in soil: 1) direct contact, 2) ingestion of beef that has bioaccumulated COPCs through grazing, 3) inhalation of volatile COPCs that have migrated from the soil to indoor air, and 4) exposure to COPCs in soil that migrate to groundwater that could potentially be used as a potable water source. The NMED risk guidance (NMED, 2022) also requires evaluation of exposure to COPCs in tap water from domestic use. The exposure pathways are discussed in the following sections.

7.1.3.1 Direct Contact

The NMED risk guidance (NMED, 2022) identifies three receptor types that may potentially be exposed through direct contact with soil: 1) residential receptors, 2) commercial/industrial workers, and 3) construction workers. These three receptors could be exposed to site-related COPCs in soil via dermal contact, incidental ingestion, and inhalation of dust/volatiles in ambient air. All three receptors will be evaluated.

7.1.3.2 Beef Ingestion

The beef ingestion pathway will be addressed in a qualitative assessment in the Uncertainties Section of the risk assessment in the RFI Report. Lines of evidence to characterize potential risks may include the following:

- Percent of acreage impacted by site contamination is less than two acres in size resulting in only a fraction of the cow's diet (grass only, forage, silage, grain) being potentially contaminated;
- Levels of contamination are below residential screening levels;
- No significant ecological risks for the larger game receptors; and
- Beef ingestion rates (or percentage of beef in diets) for the potential receptors for the region/area.

SWMU 9 is approximately 0.17 acres. As such, there is not sufficient acreage to support cattle grazing. Therefore, the beef consumption pathway is incomplete for SWMU 9. While the extent of the contaminated area outside of the SWMU 9 boundary has not been defined at this time, if it is found to exceed 2 acres, the beef consumption pathway may be considered complete and will be evaluated as such in the RFI Report. SWMU 25 is approximately 8 acres, and AOC 43 is approximately 6.6 acres. Therefore, the beef consumption pathway is potentially complete for SWMU 25 and AOC 43. A qualitative evaluation for the beef ingestion pathway will be included in the Uncertainty section of the RFI Report for SWMU 25 and AOC 43 because they are greater than 2 acres.

7.1.3.3 Vapor Intrusion

The NMED risk guidance for human health (NMED, 2022) requires an evaluation of vapor intrusion (VI) from subsurface media to indoor air when volatile analytes are detected. As defined by NMED, volatile analytes are those having a molecular weight of 200 grams per mole (g/mole) or less, having a Henry's law constant exceeding 1x10-5 atmospheres – cubic meter per mol (atm-m^3/mole), and that are identified as toxic through the inhalation pathway. At SWMUs or AOCs where volatile analytes are detected, the VI pathway will be considered potentially complete, and a qualitative evaluation will be conducted. The NMED risk guidance (NMED, 2022) requires that the VI pathway be identified with one of the following designations:

- Incomplete pathway and no action required
- Potentially complete pathway and a qualitative evaluation required
- Complete pathway and quantitative evaluation required

The VI pathway evaluation will assess the potential for health risk from exposure to COPCs and soil from inhalation inside buildings.

Vapor intrusion screening levels are not published by NMED for bulk soil because NMED follows USEPA VI guidance, which does not support reliance on bulk soil as an effective means of quantifying potential risks through the VI pathway. Therefore, the evaluation of volatile analytes in soil will be qualitative and rely on a lines-of-evidence discussion to characterize the potential

for health risks. The qualitative discussion will present lines of evidence consistent with Section 2.5.2.2 of the NMED risk guidance (NMED, 2022) as listed below:

- Number and magnitude of detections of volatile compounds;
- If there is a suspected source of volatile compounds within the SWMU;
- Decreasing concentration trends;
- No evidence of sinking or dense vapors; and
- If a removal action has, or could, mitigate the presence of VOCs in soil.

The vapor intrusion pathway is potentially complete for future hypothetical residents and industrial/commercial workers. The VI pathway will be evaluated qualitative (as listed above) if VOCs are detected in soil.

If sufficient lines of evidence are developed to support that volatile analytes in soil are unlikely to pose health risks through the VI pathway, then no further evaluation or mitigation of the VI pathway is required. If there are not sufficient lines of evidence to rule out health risks through the VI pathway, then additional evaluation of the VI pathway through a site-specific assessment, sampling of soil-gas, or additional evaluation and/or sampling of groundwater may be recommended in the conclusions of the RFI Report.

7.1.3.4 Soil to Groundwater

The NMED risk guidance (NMED, 2022) requires that the potential for COPCs in shallow soil to leach to shallow groundwater be evaluated for protection of groundwater. Groundwater is known to be present below Parcel 7 and, therefore, this pathway will be considered potentially complete. Groundwater in alluvial aquifers could potentially be used as a potable water source for future human receptors.

7.1.4 Conceptual Site Model

Site investigations are conducted within the context of a CSM. The purpose of the CSM is to describe complete or potentially complete exposure pathways through which receptors may be exposed to site-related contamination. The NMED risk guidance (NMED, 2022) identifies five elements that must be present for an exposure pathway to be complete: 1) source, 2) mechanism of contaminant release, 3) a receiving or contact medium, 4) a potential receptor, and 5) a route of exposure. If any one of these five elements is missing, then the exposure pathway is incomplete. Based on the summary of RFI investigation results described in previous **Section 3** through **Section 5**, potential receptors accessing the site could potentially be exposed to chemicals released from historical activities conducted at FWDA and remaining in the surface and subsurface.

The CSM describes the COPC origin, fate, transport, exposure pathways, and receptors of concern. The CSM provides a clear and concise description of how receptors may come into contact with Facility-related COPCs via release mechanisms and exposure to environmental media. The CSM provides the framework for the risk assessment and will be used to identify appropriate exposure pathways and receptors for evaluation.

The primary sources of potential contaminants at Parcel 7 are related to the historical use of FWDA and include the disposal area associated with SWMU9, the burn area associated with SWMU 25, and the railroad car storage area associated with AOC 43. Primary release mechanisms include dumping, burning, leaks, drips, and spills.

Secondary sources of potential contaminants are surface soils. Transport mechanisms may include wind erosion from contaminated surface soils, leaching and infiltration to subsurface soil, volatilization of contaminants in surface soil to air, infiltration and leaching to groundwater, and stormwater runoff and erosion of surface soil to surface water and sediment. Groundwater is 50 to 70 feet below the surface, and groundwater does not discharge to surface water. There are no year-round surface water bodies. Therefore, the surface water/sediment exposure pathways are incomplete.

There is potential for receptors to be exposed to contamination remaining from historical activities conducted at FWDA. The potential for exposure varies across Parcel 7 because it contains a mix of developed and open spaces that will support different types of land use. Current land use is as an out-of-use military installation undergoing remediation where the receptors could include commercial/ industrial workers and construction workers. The properties are anticipated to be transferred to other entities and therefore future use by residential, commercial/industrial workers, and construction workers is possible. However, the Permit (NMED, 2015; Attachment 7) requires that future residential land use be evaluated to support unrestricted future land use by the Army or other future owner, which includes both adult and child receptors.

The primary media of concern being addressed by this Supplemental RFI Work Plan are surface and subsurface soils, and thus the cumulative risk evaluation will quantitatively address potential exposures through direct contact (including dermal contact, incidental ingestion, and inhalation of dust or particulates) and the soil leaching to groundwater pathways at each SWMU and AOC. There also is the potential for indirect exposure through the VI and beef ingestion pathways. These indirect exposures will be evaluated qualitatively at those SWMUS or AOCs where the exposure pathway analysis conducted at the time of the risk evaluation demonstrates they are complete.

Three CSMs were developed to illustrate potentially complete exposure pathways identified in the exposure pathway analysis (**Section 7.1.4**) for the SWMUs and AOCs currently being investigated. **Figure 3.2** presents the CSM for SWMU 9, **Figure 4.5** presents the CSM for SWMU 25, and **Figure 5.3** presents the CSMs for AOC 43. A brief description of the three CSMs and a list of the AOCs or SWMUs assigned to each is presented below:

Figure 3.2 – SWMU 9 is a relatively small site (0.17 acres). Current human receptors include commercial/industrial workers. SWMU 9 has the potential to support future residential use, commercial/industrial use, and construction workers. The beef ingestion pathway is considered incomplete because it is less than two acres in size. While the extent of the contaminated area outside of the SWMU 9 boundary has not been defined at this time, if it is found to exceed 2 acres, the beef consumption pathway may be considered complete and will be evaluated as such in the RFI Report. Residential land use will be evaluated for this property to comply with the Permit requirements and to support unrestricted future land use by the Army or other future owner.

Figure 4.5 – SWMU 25 is a larger site (8 acres). Current human receptors include commercial/industrial workers. SWMU 25 has the potential to support future residential

use, commercial/industrial use, and construction workers. SWMU 25 is large enough to potentially support cattle grazing. There are mostly vacant spaces that could support a wide range of future uses, including residential development and cattle grazing. Residential land use will be evaluated for this property to comply with the Permit requirements and to support unrestricted future land use by the Army or other future owner.

Figure 5.3 – AOC 43 is a larger site (6.5 acres) with railroad tracks. Current human receptors include commercial/industrial workers. AOC 43 has the potential to support commercial/industrial and construction worker use. Residential use will be evaluated for this property to comply with the Permit requirements and to support unrestricted future land use by the Army or other future owner.

The groundwater exposure pathway is potentially complete for future hypothetical residents. Groundwater in the alluvial aquifer is assumed to be used as drinking water for all sites until it can be demonstrated that an alternate source of drinking water is readily available to replace groundwater as the primary drinking water source. The evaluation of groundwater will be based on the target soil leachate concentrations, which are equivalent to the NMED-specific tap water SSLs multiplied by a DAF of 20. Soil results will be compared to the target soil leachate concentrations to determine if additional investigation is necessary to evaluate potential leaching and migration of contaminants to groundwater. If migration to groundwater SL-SSLs are exceeded and vertical delineation indicates potential downward migration, additional soil and/or groundwater sampling will be conducted, as necessary.

7.1.5 Approach for Evaluating Human Health Risks

The potential for unacceptable health risks from exposure to remaining FWDA-related contamination will be evaluated for potentially complete pathways as defined by the exposure pathway analysis and CSM for each AOC or SWMU. The steps of the human health risk assessment are presented below.

7.1.5.1 Identification of Chemicals of Potential Concern (Step 1, Part 1)

Analytes detected in one or more samples from the data set for each SWMU or AOC will be identified as preliminary COPCs. The data set used will include historical data, RFI data, and data collected in support of this Supplemental RFI.

7.1.5.2 Evaluation of Metals Background Levels (Step 1, Part 2)

As allowed by NMED risk guidance (NMED, 2022; Section 2.8.3.2), the risk evaluation process may incorporate a comparison to background concentrations before evaluating cumulative risks. This is consistent with Attachment 7 (Section 7.6) of the Permit (NMED, 2015), which indicates that the screening level for naturally occurring (i.e., background) constituents can be set at the background level if a background level is approved by NMED. This section provides a summary of the background studies completed at the site, and the evaluation to be performed to determine if metals should be retained as COPCs.

Summary of Metals Background Studies

At FWDA, site-specific background concentrations for metals in soil were established through the completion of a background study conducted in 2009 and documented in a report titled Soil

Background Study and Data Evaluation Report (Shaw Environmental, 2010). The study included collection of 124 samples from areas of FWDA in Parcels 1, 2, 5A, 8, 14, 15, 17, 19, and 20 believed to be unimpacted by historical operations. The background value selected for each metal in soil included in the study is provided in Table 8.1 of the Shaw Environmental (2010) report. A supplemental background study was conducted in 2012 and documented in a report titled Final Phase 2 Soil Background Report (USACE, 2013). The purpose of the supplemental investigation was to refine the background levels for arsenic and antimony. The study resulted in a revised background value of 0.23 mg/kg for antimony, which is the 95% upper tolerance limit (UTL) from soil unit 350ss, as presented in Table 4.1 of the Final Phase 2 Soil Background Report (USACE, 2013), but arsenic concentrations at investigation areas without known arsenic sources still continued to exceed the background level. NMED approved the Final Phase 2 Soil Background Report on July 23, 2013.

In 2013, NMED issued a letter titled The Evaluation of Background Levels for Arsenic in Soil (NMED, 2013). This letter provides a summary of the background evaluations and provides a refined arsenic background value and guidance on how to use that value to assess investigation results. Specifically, the NMED letter states that if the maximum arsenic concentration is less than 5.6 mg/kg, then arsenic may be considered representative of background and no further action for arsenic is required. If the maximum arsenic concentration is greater than 5.6 mg/kg, then the range of arsenic concentrations in the sample data set is to be compared to the range of arsenic concentrations in the site-specific background data set (0.2 mg/kg to 11.2 mg/kg). If the range of arsenic concentrations in the sample data set is consistent with the range of concentrations in the site-specific background data set, then the arsenic concentrations can be considered representative of background and no further action for arsenic is required. If the range of arsenic concentrations in the sample dataset are not consistent with the range of concentrations in the background data set, then additional investigation or corrective action may be required.

The background values for soil that will be used to evaluate sample results are presented in **Table 6.4** and **Table 6.5.**

Evaluate the Maximum Concentration

The NMED risk guidance (NMED, 2022; Section 2.8.3.2) indicates that metals can be eliminated from further consideration when the maximum detected concentration is less than or equal to its background level. The background levels for metals in soil described above will be used in the evaluation. In the case of arsenic, the range of arsenic concentrations may also be considered in the background evaluation. Metals detected in soil at concentrations less than background levels will not be retained as COPCs and are not evaluated further. Metals detected in soil at concentrations greater than background levels or that are considered essential nutrients will be further evaluated.

Conduct Statistical Evaluation of Metals

Metals with maximum concentrations greater than background levels from discrete samples may undergo additional evaluation. The additional evaluation may include a more robust statistical evaluation as described in Section 2.8.3.2 of the NMED risk guidance (NMED, 2022) using ProUCL statistical software (most current version). The more robust statistical evaluation, if performed, includes conducting a two-sample hypothesis test for data sets consisting of at least eight samples and at least five detections, conducting a point-by- point comparison to background

levels for data sets that are smaller, and preparing graphical displays to provide further rationale to determine if metals concentrations are consistent with background levels or elevated above background levels (NMED, 2022).

Metals determined to be consistent with background levels will not be retained as COPCs and are not evaluated further. Metals determined to be elevated above background levels will be retained as COPCs and further evaluated through a lines-of-evidence discussion.

Present Additional Lines of Evidence

NMED allows for a lines-of-evidence discussion to be developed to support exclusion of one or more metals as representative of background rather than being site-related, as long as there are sufficient data to define the nature and extent of areas of elevated concentrations. The lines of evidence could include information regarding site history and historical operations, an assessment of the number of detections versus non-detects, or an assessment of whether or not the distribution of results for one or more metals is indicative of a release or source area. Metals for which sufficient lines of evidence demonstrate they are not site-related or not significantly elevated above the background level will not be retained as COPCs and are not evaluated further. Metals without sufficient lines of evidence to eliminate them as COPCs will be carried forward to the cumulative risk evaluation.

7.1.5.3 Cumulative Risk Evaluation (Steps 2, 3, and 4)

The cumulative risk evaluation assesses if there are potential health risks from simultaneous exposure to multiple analytes. The cumulative risk evaluation incorporates the results of the metals background evaluation and proceeds to evaluate potential health risks based on the maximum detected concentrations of each analyte. Both carcinogenic and noncarcinogenic endpoints are evaluated for those analytes exhibiting both types of effect. Subsequent refinements may be incorporated into the cumulative risk evaluation if an unacceptable cancer risk or noncancer hazard is identified in the initial cumulative risk evaluation. The cumulative risk evaluation to evaluate potential health risks is described below.

Initial Cumulative Risk Evaluation (Step 2)

The initial cumulative risk evaluation provides an assessment of potential health risks from exposure to COPCs in soil for the worst-case exposure. The maximum detected concentration in the sample data set for each COPC is used to evaluate the complete exposure pathways identified by the exposure pathway analysis and CSM. Cumulative cancer risks and noncancer hazards will be calculated for soil using the following steps:

Select the maximum concentration for each detected COPC. Exclude compounds not detected in any sample for that AOC or SWMU. Also exclude metals determined to be present at background levels and essential nutrients found at concentrations below screening levels based on dietary intake.

Divide the maximum concentration by the screening level to calculate a risk ratio. Multiply the ratio for carcinogenic analytes by $1x10^{-5}$. Multiply the ratio for noncarcinogenic analytes by 1.0.

Sum the risk ratios for carcinogenic analytes to calculate the cumulative cancer risk. Sum the risk ratios for noncarcinogenic analytes to calculate the HI.

Toxicity equivalency factors (TEF) (see Table 2-1, NMED, 2022) should be applied to dioxins/furans analytical results and summed for each sample location. The toxicity equivalent (TEQ) for each sample may be determined by summing the concentrations of each individual dioxin/furan analyte multiplied by their respective TEF. The TEQ should be compared to the NMED SSL for 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD).

Evaluation for lead is conducted separately through comparison to the screening level (USEPA, 2024) because its health effects are not correlated with the typical carcinogenic or noncarcinogenic dose-based toxicity values that characterize other chemicals. Instead, the screening level for lead is based on a modeled concentration in soil that results in an acceptable blood lead level protective of adverse developmental health effects, or that is the action level identified by USEPA for groundwater.

Evaluation of essential nutrients may be conducted separately from the cumulative risk evaluation, per Section 5.3 of the NMED risk guidance (NMED, 2022). The metals and other inorganics classified as essential nutrients are calcium, chloride, magnesium, phosphorous, potassium, and sodium. The SSLs for essential nutrients developed by NMED are based on dietary guidelines developed by the Institute of Medicine and the National Academy of Sciences. The maximum concentration will be compared to the SSL. Essential nutrients with maximum concentrations less than the SSL will not be retained as COPCs and are not evaluated further. Essential nutrients with maximum concentrations greater than the essential nutrient SSLs will be further evaluated. Like noncarcinogens, a HQ or HI above 1.0 indicates excess risk may be present and additional evaluation may be required.

Evaluation of TPH is conducted separately because its indicator chemicals, as identified in Section 6.2 of the NMED risk guidance (NMED, 2022), will be included in the cumulative risk evaluation when they are detected through analysis of VOCs and SVOCs. Concentrations of TPH will be compared to the lowest direct contact NMED screening levels (**Table 6.4)**.

Site risks and hazard indices for vapor intrusion or ingestion of potentially contaminated produce/meat/dairy will be added to the cumulative risk and hazard index.

If the initial cumulative cancer risks and noncancer hazards for soil are less than NMED target risk thresholds, and the maximum concentrations of lead and TPH are less than their respective screening levels, then the predicted health risks will be considered acceptable, and the cumulative risk evaluation is complete. No further investigation or removal action is required. If initial cumulative cancer risks or noncancer hazards exceed the target risk thresholds, or if the maximum concentration of either lead or TPH exceeds its respective screening level, the analytes contributing to the exceedance will be carried forward to Step 3.

Refined Exposure Point Concentration (Step 3)

If the initial cumulative risks or hazards exceed the NMED risk thresholds, then calculate refined exposure concentrations, specifically the 95% UCL of the arithmetic mean of soil concentrations, where sufficient data are available to support calculation of a UCL. ProUCL (most current version) will be used to calculate UCLs, which will be used in place of the maximum

concentration. The output for any UCLs incorporated into the risk evaluation will be included as an appendix to the RFI Report.

Refined Cumulative Risk Evaluation (Step 4)

If the initial cumulative risks or hazards exceed the NMED risk thresholds, then a refined cumulative risk evaluation will be conducted using one or more of the following in the evaluation:

Evaluation of cumulative risks may be conducted within refined exposure areas when it is reasonable to assume that receptor exposure would not occur over the entire SWMU or AOC. Refined exposure areas will be determined based on site-specific conditions, including the spatial distribution of contaminants, current and anticipated land use, and potential receptor activity patterns. Risk evaluations within these areas will use the 95% UCL of the mean concentration for the identified exposure area. The 95% UCL will be calculated using the most current version of USEPA's ProUCL software, currently Version 5.2 (USEPA, 2022). ProUCL calculates UCLs using a variety of methods and recommends an appropriate UCL based on the sample size, distribution of data, and the number of non-detects. The recommended 95% UCL will be used for evaluation of cumulative risks. While not expected, if the data set consists of less than 4 detects or contains less than 10 samples with a detection frequency less than 10%, the median value will be used to evaluate cumulative risk (USEPA, 2022).

Segregation of noncancer hazards by toxic endpoint (i.e., target organ) to determine if cumulative noncancer hazards exceed the NMED risk threshold for the organ or body system they affect. The toxic endpoint includes the critical or primary organ or body system effected by exposure to a noncarcinogenic analyte, as well as organs or health effects secondary to the critical effect associated with the chronic toxicity criteria used to establish the NMED screening level. The sources of toxicity information reviewed when toxic endpoints are evaluated are those listed in Section 2.1 of the NMED risk guidance (NMED, 2022).

Development of a qualitative discussion of additional lines of evidence relevant to the COPC for a given AOC or SWMU to describe why a potentially unacceptable cancer risk or noncancer hazard may not be a concern for either the direct contact or the soil to groundwater pathway. Examples of lines of evidence could include a review of the subsurface conditions, the physical and chemical properties of an analyte, frequency of detection, magnitude of exceedances, visual evidence of contamination, concentration trends, and statements about historical use or sources of an analyte at FWDA.

Cumulative risks and hazards are recalculated after incorporating one or more of the refinements described above. If the cumulative risks and hazards are less than the risk threshold, then no further evaluation is required. If the cumulative risks and hazards are greater than the risk threshold, then the analytes contributing to the exceedance will be carried forward to Step 7.

7.1.5.4 Migration to Groundwater Evaluation (Step 5)

Per Section 4.9 of the NMED Risk Assessment Guidance for Human Health (NMED, 2018), soil concentrations of contaminants will be directly compared to the highest NMED migration to groundwater SL-SSL (included in **Table 6.5**). Migration to groundwater SL-SSLs were derived using two criteria: tap water screening levels and the NMED groundwater and surface water

protection levels (20.6.2 NMAC), and/or Federal MCLs (Table A-3, NMED, 2022). SL-SSLs for TPH mixtures are presented on Table 6-4 of the NMED Risk Assessment Guidance for Human Health (NMED, 2022). The highest migration to groundwater SL-SSL for a chemical based on a DAF of 20 will be applied for initial screening to evaluate potential leaching and migration of contaminants from the vadose zone to groundwater. All soil data, regardless of depth of detection, will be used in the evaluation of the migration to groundwater pathway. The maximum detected concentrations in soil will initially be compared to the SL-SSLs. If the initial comparison results in an exceedance of the migration to groundwater SL-SSLs, a refined EPC and/or site-specific data will be compared to the NMED migration to groundwater SL-SSL.

7.1.5.5 Uncertainty Discussion (Step 6)

An uncertainty discussion will be prepared to address the uncertainty associated with the specific data set and risk evaluation. The uncertainty discussion considers the effects of qualifiers added during data validation, of reporting limits that may be greater than the screening levels, and of analytes that do not have published screening levels. Uncertainty associated with exposure assumptions and toxicity value will also be discussed. The uncertainty discussion will provide an assessment of whether the uncertainty contributes to an overestimation of risk, an underestimation of risk, or has a neutral impact on estimated risks.

7.1.5.6 Additional Cumulative Risk Evaluation (Step 7)

When unacceptable risks are predicted from both the initial and refined cumulative risk evaluations, additional site-specific data evaluation may be conducted to further characterize the nature and uncertainty of the estimated risks or hazards. The additional evaluation, if performed, may include an evaluation of cumulative risk on a sample-by-sample basis, incorporation of refined exposure assumptions, or other appropriate refinement. Additional lines of evidence may be considered. This step would only be performed if the results of the Steps 2 through 5 indicate that further evaluation would provide additional understanding of potential risks that could further characterize the significance of the unacceptable risks/hazards, or aid in developing a corrective action measure to mitigate the potential health risks.

The results of the cumulative risk evaluation will be presented in the RFI Report and will include tables showing the cumulative risk calculations and appendices presenting the relevant backup documentation.

Lines of Evidence

Lines of evidence may be evaluated for COPCs. Examples of lines of evidence could include a review of the subsurface conditions, the physical and chemical properties of a COPC, frequency of detection, magnitude of exceedances, visual evidence of contamination, concentration trends, and statements about historical use or sources of a COPC at FWDA. Other lines of evidence could include the bioavailability, solubility, and other properties of COPCs.

7.2 SCREENING LEVEL ECOLOGICAL RISK ASSESSMENT

This RFI will build on the data previously collected in Parcel 7 in support of an RFI. The data collected during this Supplemental RFI will fill data gaps identified during review of the historic data as well as provide data to support risk assessment. The evaluation of data to be conducted

during the RFI will include all data collected in Parcel 7, including historic data, RFI data, and data collected in support of this Supplemental RFI.

The evaluation of ecological risks will assess potential risks to ecological receptors as required by Attachment 7 (Section 7.5) of the Permit (NMED, 2015). The Tier 1 screening level ecological risk assessment (SLERA) will be performed after nature and extent of contamination has been fully defined. The general steps for conducting the SLERA are per the *NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume II, Soil Screening Guidance for Ecological Risk Assessments* (NMED, 2017).

This section discusses the procedures for conducting the SLERA and includes how to identify chemicals of potential ecological concern (COPECs) (further discussed in **Section 7.2.3**), an evaluation of the preliminary exposure pathways (**Section 7.2.4**), a discussion of the ecological CSM (**Section 7.2.5**), the Tier 1 SLERA (**Section 7.2.6.1**), Tier 2 SLERA (**Section 7.2.6.3**), and uncertainties (**Section 7.2.7**).

A SLERA will be conducted for the AOCs and SWMUs within Parcel 7 to evaluate potential risks to ecological receptors. The SWMUs and AOCs to be evaluated are listed below:

SWMU 9: Petroleum, Oils, and Lubricants (POL) Waste Discharge Area (POL Area);

SWMU 25: Trash Burning Ground Property Disposal Office; and

AOC 43: Railroad Classification Yard.

The data to be used in the evaluation will include the results from this Supplemental RFI, as well as the results from the initial RFI.

7.2.1 Define NMED Target Risk Thresholds

The NMED risk guidance (NMED, 2017; Section 3.5) identifies the target risk threshold as 1.0. This risk level is the threshold over which the potential for adverse effects on ecological receptors can occur and triggers additional ecological evaluation (i.e., Tier 2).

7.2.2 Selection of Screening Levels

The screening levels selected for evaluating ecological hazards for Parcel 7 are those published for representative receptors by NMED in Appendix C of its risk guidance (NMED, 2017). The lowest NMED ESLs for plants, deer mouse, and horned lark are provided in **Table 6.6. Table 6.8** includes an evaluation of analytes with LOQs that are greater than NMED ESLs. As shown in **Table 6.8**, thallium and acenaphthene have an LOQ greater than the most protective ESL. The Limit of detection (LOD) is less than the ESL for acenaphthene. Therefore, should acenaphthene be present at concentrations between the LOD and LOQ, it will be reported, but the concentration will be estimated (i.e., J-flagged). J-flagged results are considered usable for risk assessment. In addition, neither thallium nor acenaphthene are anticipated to be COPCs at Parcel 7. Additional sources of ecological screening values may be evaluated in the ecological risk assessment for chemicals without an NMED ESL, as necessary.

7.2.3 Selection of Chemicals of Potential Ecological Concern

Analytes detected in one or more samples from the data set for each SWMU or AOC will be retained as preliminary chemicals of potential ecological concern (COPECs). Analytes that are not

detected in any sample will not be retained as preliminary COPECs. A detected chemical will not be eliminated as a COPEC only because toxicity information is lacking; instead, limited or missing toxicity data will be addressed as directed by NMED (**Appendix A**) by identification of additional sources of toxicity values and evaluation of surrogate toxicity data from a similar chemical. Uncertainties associated with surrogate toxicity data will be discussed in the uncertainty section of the RFI Report.

7.2.4 Preliminary Exposure Pathway Evaluation

The ecological exposure pathway analysis considers the six groups of representative receptors identified in the NMED risk guidance (NMED, 2017): 1) plants, 2) deer mouse, 3) horned lark, 4) kit fox, 5) red-tailed hawk, and 6) prong-horned antelope. The exposure pathway analysis serves to focus the evaluation on only those receptors for which the pathway is potentially complete. Receptors for which the exposure pathway is incomplete, or for which the home range size is much greater than the size of the area being evaluated, will be eliminated from the ecological risk evaluation.

SWMU 9 (~0.17 acres), SWMU 25 (~8 acres), and AOC 43 (~6.6 acres) within Parcel 7 are smaller than 10% of the home range size for the kit fox (267 acres), red tailed hawk (177 acres), and prong-horned antelope (342 acres); therefore, they can be eliminated from further evaluation. The NMED guidance requires plants, the deer mouse, and the horned lark to be evaluated at all sites, regardless of size. Therefore, the ecological risk evaluation will consider each of these three receptors.

7.2.5 Conceptual Site Model

The CSM describes the COPC origin, fate, transport, exposure pathways, and receptors of concern. The CSM provides a clear and concise description of how receptors may come into contact with Facility-related COPCs via release mechanisms and exposure to environmental media. The CSM provides the framework for the risk assessment and will be used to identify appropriate exposure pathways and receptors for evaluation.

The primary sources of potential contaminants at Parcel 7 are related to the historical use of FWDA and include the disposal area associated with SWMU9, the burn area associated with SWMU 25, and the railroad car storage area associated with AOC 43. Primary release mechanisms include dumping, burning, leaks, drips, and spills.

Secondary sources of potential contaminants are surface soils. Transport mechanisms may include wind erosion from contaminated surface soils, leaching and infiltration to subsurface soil, volatilization of contaminants in surface soil to air, infiltration and leaching to groundwater, and stormwater runoff and erosion of surface soil to surface water and sediment. Groundwater is 50 to 70 feet below the surface, and groundwater does not discharge to surface water. There are no year-round surface water bodies. Therefore, the groundwater and surface water/sediment exposure pathways are incomplete.

The following potentially complete exposure pathways will be evaluated in the SLERA as illustrated on **Figure 7.1:**

Plant roots in direct contact with contaminated soil,

Deer mouse and horned larked exposed via dermal contact with soil and incidental ingestion of contaminated soil, and

Deer mouse and horned larked exposed via ingestion of prey items through the food web.

7.2.6 Approach for Evaluating Ecological Risks

The screening level evaluation of ecological risks will consist of two tiers:

Tier 1 – Will present an initial quantitative assessment of ecological risk under the most conservative conditions (for example, maximum concentrations, minimum body weights, use of no adverse effect level [NOAEL] toxicity reference values [TRV], and other conservative assumptions). If the Tier 1 evaluation indicates that there is a potential for adverse effects on ecological receptors, then additional evaluation following the Tier 2 SLERA process is required.

Tier 2 – Will present a refined quantitative assessment of ecological risk that incorporates revisions to the exposure dose input parameters and TRVs and re-assesses ecological risk using more realistic assumptions including EPCs (95% UCL). A lines-of-evidence discussion may also be developed as part of the Tier 2 risk evaluation.

7.2.6.1 Tier 1 Screening Level Ecological Risk Assessment (SLERA)

The Tier 1 SLERA provides an assessment of potential ecological risks by using the maximum detected concentration in surface soil (0.0 to 1.0 foot bgs) for non-burrowing receptors, and 0.0 to 10.0 feet bgs for burrowing receptors for each COPEC and the most protective ESL (or the effect concentration for plants) for the representative receptors with complete or potentially complete exposure pathways identified by the CSM. Detected analytes are identified as COPECs, except for those metals that are found to be present at background levels as determined in the human health risk evaluation using the process described in **Section 7.1.6.2**.

Ecological risks will be calculated using the following steps:

Select the maximum concentration for each detected analyte. Exclude compounds not detected in any sample. Also exclude metals determined to be present at naturally occurring levels in the background evaluation.

Divide the maximum concentration by the most protective Tier 1 ESL (or the effect concentration for plants) to calculate the screening level hazard quotient (SLHQ) using Equations 6 and 8 (NMED, 2017).

a. Equation 6: SLHQ = Concentration (mg/kg in soil) / effect concentration (mg/kg)
b. Equation 8: SLHQ = Concentration (mg/kg in soil) / ESL (mg/kg)

Sum the individual SLHQs to calculate the overall HI.

Compare the overall HI to the NMED target risk threshold of 1.0.

If the overall HI is less than 1.0, then there is no ecological hazard predicted and no further evaluation is required. If the overall HI is greater than 1.0, then there is the potential for an unacceptable ecological hazard and the analytes contributing to the exceedance for each receptor at risk are carried forward to a refined Tier 1 evaluation or to a Tier 2 evaluation.

7.2.6.2 Refined Tier 1 SLERA

The Refined Tier 1 SLERA will be conducted to evaluate the ecological hazard posed by smaller exposure areas for each AOC or SWMU, if evaluation of smaller exposure areas is determined to be warranted based on the data set for a given AOC of SWMU. The same process described in **Section 7.2.6.1** will be applied to each exposure area.

If the HIs for receptors with complete exposure pathways in a given exposure area are less than the NMED target risk threshold of 1.0, then no ecological hazard is predicted for that receptor in that exposure area and no further evaluation was required. If the HI is greater than 1.0 for a receptor in a particular exposure area, then that receptor and exposure area will be carried forward to a Tier 2 risk evaluation.

7.2.6.3 Tier 2 SLERA

The Tier 2 SLERA allows for multiple assumptions to be refined before re-calculating the SLHQ and HI for those receptors having SLHQs or overall, HIs greater than 1.0 in the refined Tier 1 ecological risk evaluation. This section describes the refinements allowed by NMED risk guidance (NMED 2017), and that will be considered for use in the Tier 2 ecological risk evaluation.

Refine the Toxicity Reference Values

The NMED risk guidance (NMED, 2017; Section 4.1.1) provides for revisions to the TRVs (or effect concentrations for plants) to those based on lowest observed adverse effect levels (LOAELs). Tier 2 TRVs/effect concentrations (ECs) represent concentrations that are protective of the population as a whole as opposed to NOAEL-based TRVs that are protective of the most sensitive individuals.

Develop Refined Exposure Doses for Affected Receptors

The NMED risk guidance (NMED, 2017; Section 4.0) provides for revisions to multiple factors in the calculation of exposure doses for Tier 2 evaluations. These factors, and the refinements that are allowed, are listed below:

Exposure point concentration (EPC): The maximum concentration may be refined by calculating the 95% UCL, if there are sufficient data to support a UCL calculation. ProUCL (most current version) will be used to calculate the 95% UCL.

Area use factor (AUF): This value may be refined using the actual exposure area size and the receptor's average home range size. If the average home range size is less than the size of the exposure area, the AUF will remain at 1.

Body weight: The average body weight may be used instead of the minimum body weight.

Ingestion rate: The average reported food ingestion rate may be used instead of the maximum food ingestion rate.

Wet-weight to dry-weight conversion factor: This may be included to account for the difference in reporting body weight (as wet-weight) and soil concentrations (as dry weight).

In addition, a lines-of-evidence discussion may be developed where appropriate to provide additional context for the results of the Tier 2 risk evaluation or to demonstrate that a particular COPEC is not site-related.

Conduct the Tier 2 Risk Evaluation

The Tier 2 risk evaluation is conducted using the same procedure as used in the Tier 1 risk evaluation, for those receptors and exposure area that progress into the Tier 2 risk evaluation. The Tier 2 risk evaluation incorporates one or more of the refinements listed in the prior two sections to re-assess the ecological risks.

The Tier 2 risk evaluation is considered complete, and no further evaluation is needed, when the HI for each receptor is less than 1.0. In circumstances where the HI for one or more receptors is greater than 1.0 after applying all refinements, the Army will consider if a site-specific ecological risk evaluation is warranted, or if a soil removal action is preferred to additional ecological risk evaluation. The approach to performing a site-specific ecological risk evaluation is not addressed in this Supplemental RFI Work Plan. The Army will work in consultation with NMED on the approach to a site-specific ecological risk evaluation if that is the Army's selected course of action.

7.2.7 Uncertainty Discussion

An uncertainty discussion will be prepared to address the uncertainty associated with the specific dataset and risk evaluation. The uncertainty discussion will consider the effects of qualifiers added during data validation, of reporting limits that may be greater than the ESLs (or effect concentrations for plants), and of exposure assumptions that may not be representative of anticipated receptor use at Parcel 7. The uncertainty discussion will provide an assessment of whether the uncertainty contributes to an overestimation of risk, an underestimation of risk, or has a neutral impact on estimated risks.

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8.0 SCHEDULE

The approximate schedule for conducting the investigation activities at Parcel 7 is summarized below.

Supplemental Work Plan delivered to NMED – April 10, 2025

Fieldwork – initiates 90 days subsequent to NMED approval of the work plan

Final RFI Report to NMED – provided to NMED 120 days subsequent to completion of investigation activities including laboratory reporting, data validation, waste disposal and site restoration

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TABLES

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Table 3.1 – SWMU 9 POL Area Data Quality Objectives

Step 1: State the Problem	Step 2: Identify the Goals of the Study	Step 3: Identify Information Inputs	Step 4: Define the Boundaries of the Study	Step 5: Develop the Analytic Approach (Decision Rules)	Step 6: Specify Performance or Acceptance Criteria	Step 7: Develop the Detailed Plan for Obtaining Data (Technical Approach Summary)
Concentrations of lead and TPH-DRO were detected in soil samples collected southeast of the original SWMU 9 boundary. Further investigation is recommended in the disposal area followed by removal of the impacted soil from the area southeast of the original SWMU 9 boundaries, including confirmation sampling, to be completed in the future. NMED requested that the Army evaluate both the vertical and lateral extent of soil contamination associated with TPH·DRO-extended and lead to complete the report.	Determine the lateral and vertical extent of TPH-DRO and lead in soil in the area southeast of the original SWMU 9 boundary.	Existing data as discussed in **Section 3.2** and documented in previous reports (ERM, 1997) and new analytical results from proposed discrete soil samples as discussed in **Section 3.4**.	Proposed soil borings around the suspected POL disposal area and step-out borings that may be added to define the vertical and lateral extent of contamination.	As described in **Section 3.3**, the purpose of this investigation is to address data gaps and NMED comments (NMED, 2018). Analytical results will be compared to Human Health and Ecological Screening Levels (**Tables 6.4 through 6.6**).	All sampling and analysis will be performed in accordance with this Supplemental RFI Work Plan (**Section 6.0**).	As described in **Section 3.4**, subsurface soil samples will be collected from proposed borings 0709POLSB008 and 0709POLSB009 at approximately 5.0 to 5.5, 9.5 to 10.0, 15.0 to 15.5, 20.0 to 20.5, and 25.0 to 25.5 feet bgs. Eight step-out borings will be advanced around the perimeter of the suspected POL disposal area to define the extent of contamination. Samples will be collected from 0.5 to 1.0 and 1.5 to 2.0 feet bgs. If above the Human Health Screening Levels (**Tables 6.4** and **6.5**), then step-out locations will be placed at 10-ft intervals stepping out until the lateral extent of contamination is defined. Once lateral extent is defined, then four additional borings will be advanced deeper to confirm vertical contamination does not extend beyond this perimeter. All samples will be analyzed for VOCs (8260D), SVOCs (8270E), TPH GRO (8015D), TPH-DRO Extended (C10-C36) (8015D), and lead (6020B).

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Table 3.2 – SWMU 9 POL Area
Summary of RFI Samples with Concentrations Exceeding Human Health Screening Levels

Sample Identification Number	Analyte	Detected Concentration (mg/kg)	Direct Contact SSL (mg/kg)	Lateral Extent Defined (yes/no)	Vertical Extent Defined (yes/no)
0709POLSS008-0.5-1.0DSO	TPH-DRO	1,200	1,000	No	No
0709POLSS008-0.5-1.0DSO	Lead	710	200	No	Yes
0709POLSS008-1.5-2.0DSO	TPH-DRO	3,000	1,000	No	No
0709POLSS009-0.5-1.0DSO	TPH-DRO	6,000	1,000	No	No
0709POLSS009-0.5-1.0DSO	Lead	216	200	No	Yes
0709POLSS009-1.5-2.0DSO	TPH-DRO	4,100	1,000	No	No
0709POLSS010-0.5-1.0DSO	TPH-DRO	4,400	1,000	No	Yes
0709POLSS010-0.5-1.0DSO	Lead	1,190	200	No	Yes
0709POLSS010-1.5-2.0DSO	TPH-DRO	370	1,000	Yes	Yes

Note:
Full data provided in **Appendix B** (**Tables B.3-1 through B.3-5**).

Table 3.3 – SWMU 9 POL Area
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
0709POLSB008-5.0-5.5DSO	5.0 to 5.5	VOCs (8260D), SVOCs (8270E), TPH-GRO (8015D), TPH-DRO Extended (C10-C36) (8015D); Lead (6020B)	NMED Comments (**Appendix A**)
0709POLSB008-9.5-10.0DSO	9.5 to 10.0		
0709POLSB008-15.0-15.5DSO	15.0 to 15.5		
0709POLSB008-20.0-20.5DSO	20.0 to 20.5		
0709POLSB008-25.0-25.5DSO	25.0 to 25.5		
0709POLSB009-5.0-5.5DSO	5.0 to 5.5		
0709POLSB009-9.5-10.0DSO	9.5 to 10.0		
0709POLSB009-15.0-15.5DSO	15.0 to 15.5		
0709POLSB009-20.0-20.5DSO	20.0 to 20.5		
0709POLSB009-25.0-25.5DSO	25.0 to 25.5		
0709POLSB011-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB011-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB011-5.0-5.5.0DSO (2)	5.0 to 5.5		
0709POLSB011-9.5-10.0DSO (2)	9.5 to 10.0		
0709POLSB012-0.5-1.0DSO (1)	0.5 to 1.0 *		
0709POLSB012-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB013-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB013-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB013-5.0-5.5.0DSO (2)	5.0 to 5.5		
0709POLSB013-9.5-10.0DSO (2)	9.5 to 10.0		

Table 3.3 – SWMU 9 POL Area
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
0709POLSB014-0.5-1.0DSO (1)	0.5 to 1.0	VOCs (8260D), SVOCs (8270E), TPH-GRO (8015D), TPH-DRO Extended (C10-C36) (8015D); Lead (6020B)	NMED Comments (**Appendix A**)
0709POLSB014-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB015-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB015-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB015-5.0-5.5.0DSO (2)	5.0 to 5.5*		
0709POLSB015-9.5-10.0DSO (2)	9.5 to 10.0		
0709POLSB016-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB016-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB017-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB017-1.5-2.0DSO (1)	1.5 to 2.0		
0709POLSB017-5.0-5.5.0DSO (2)	5.0 to 5.5		
0709POLSB017-9.5-10.0DSO (2)	9.5 to 10.0		
0709POLSB018-0.5-1.0DSO (1)	0.5 to 1.0		
0709POLSB018-1.5-2.0DSO (1)	1.5 to 2.0 *		
QC Samples to be Collected			
Number of Primary Samples = 34 (3)			
Number of MS/MSD Samples (5%) = 2 (3)			
Number of Field Duplicate Samples (10%) = 4 (3)			

Notes:
(1) If any of these results are above the Human Health Screening Levels (**Tables 6.4 and 6.5**), then a step-out will be advanced as discussed in **Section 3.4** and potential locations are shown on **Figure 3.3**.

(2) If step-out samples are collected, these samples will be collected from the outermost boring in that direction.
(3) If step-out samples are collected, then additional QC samples will be collected as needed.
* Indicates that a Field Duplicate sample will also be collected.
SB = soil boring
DSO = discreet soil sample

Table 4.1 – SWMU 25 Trash Burning Ground Property Disposal Office Data Quality Objectives

Step 1: State the Problem	Step 2: Identify the Goals of the Study	Step 3: Identify Information Inputs	Step 4: Define the Boundaries of the Study	Step 5: Develop the Analytic Approach (Decision Rules)	Step 6: Specify Performance or Acceptance Criteria	Step 7: Develop the Detailed Plan for Obtaining Data (Technical Approach Summary)
The site has not been fully characterized. The vertical and lateral extent of arsenic detected at 15 mg/kg at 0725F2SS009-0.5-1.0DSO at Feature 2 needs to be defined. The lateral extent of copper detected at 4,100 mg/kg at OTB03-5 at Feature 5 needs to be defined as well as further evaluation of other metals at this location. The Approval with Modifications for the RCRA Final Facility Investigation Work Plan and HISD Parcel 7 (NMED, 2014) directed the Permittee to conduct an investigation that is more inclusive of the dark area as seen in the [SWMU 25] aerial images at Feature 5. Only one sample location (0725F5SB003) was located within the dark area on the aerial photographs during the 2014 investigation.	Determine the nature and extent of arsenic detected at 0725F2SS009-0.5-1.0DSO at Feature 2. Determine the nature and extent of copper detected at OTB03-5 at Feature 5. Evaluate the dark area as seen in the aerial images at Feature 5.	Existing data as discussed in **Section 4.2** and documented in previous reports (ERM, 1997) and new analytical results from proposed discrete soil samples collected as discussed in **Section 4.4**.	Proposed test pits and soil borings around SWMU 25.	As described in **Section 4.3**, the purpose of this investigation is to address data gaps and NMED comments (NMED, 2018). Analytical results will be compared to Human Health and Ecological Screening Levels (**Tables 6.4 through 6.6**).	All sampling and analysis will be performed in accordance with this Supplemental RFI Work Plan (Section 6.0).	As discussed in **Section 4.3**, proposed boring 0725F2SB001 will be located adjacent to former location 0725F2SS009, soil samples will be collected at approximately 1.5 to 2.0, 5.0 to 5.5, and 9.5 to 10.0 feet bgs. Four step-out borings will be advanced ten feet from the former boring 0725F2SS009, and samples will be collected from 0.5 to 1.0 and 1.5 to 2.0 feet bgs. Soil samples from these locations will be analyzed for arsenic (6020B). One test pit will be located adjacent to OBT03 to evaluate the presence of material/waste that may be contributing to the copper detected. Three step-out borings (0725F5SB001, 0725F5SB002, and 0725F5SB003) will be advanced ten feet from former boring OTB03 5.0 to 5.5, and 9.5 to 10.0 feet bgs and analyzed for TAL metals (6020B/7471B). Three test pits will be advanced in the dark area in Feature 5. Based on the test pit findings, three soil borings (0725F5SB004, 0725F5SB005, and 0725F5SB006) will be advanced and samples will be collected at 0 to 0.5, 1.5 to 2.0, 5.0 to 5.5, and 9.5 to 10.0 feet bgs and analyzed for TAL metals (6020B/7471B), chlorinated pesticides (8081B), herbicides (8321B), TPH-DRO (8015D), PCBs (8082A), SVOCs (SW8270E), VOCs (8260D), explosive compounds (8330B), and dioxins/furans (8290A).

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Table 4.2 – SWMU 25 Trash Burning Ground Property Disposal Office
Summary of RFI Samples with Concentrations Exceeding Human Health Screening Levels

Sample Identification Number	Analyte	Detected Concentration (mg/kg)	Direct Contact SSL (mg/kg)	Lateral Extent Defined (yes/no)	Vertical Extent Defined (yes/no)
0725F2SS009-0.5-1.0DSO	Arsenic	15	7.07	No	No
OTB03-5	Copper	4,100	3,130	No	Yes

Note:
Full data provided in **Appendix B** (**Tables B.4-1 through B.4-7**).

Table 4.3 – SWMU 25 Trash Burning Ground Property Disposal Office
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
0725F2SB001-1.5-2.0DSO	1.5 to 2.0	Arsenic (6020B)	NMED Comment #33 (**Appendix A**)
0725F2SB001-5.0-5.5DSO	5.0 to 5.5		
0725F2SB001-9.5-10.0DSO	9.5 to 10.0		
0725F2SB002-0.5-1.0DSO	0.5 to 1.0		
0725F2SB002-1.5-2.0DSO	1.5 to 2.0		
0725F2SB003-0.5-1.0DSO	0.5 to 1.0		
0725F2SB003-1.5-2.0DSO	1.5 to 2.0		
0725F2SB004-0.5-1.0DSO	0.5 to 1.0		
0725F2SB004-1.5-2.0DSO	1.5 to 2.0		
0725F2SB005-0.5-1.0DSO	0.5 to 1.0 *		
0725F2SB005-1.5-2.0DSO	1.5 to 2.0		
0725F5SB001-0.5-1.0DSO	0.5 to 1.0	TAL metals (6020B/7471B)	NMED Comments #29, #32, #34, and #38 (**Appendix A**)
0725F5SB001-1.5-2.0DSO	1.5 to 2.0		
0725F5SB001-5.0-5.5.0DSO	5.0 to 5.5		
0725F5SB001-9.5-10.0DSO	9.5 to 10.0		
0725F5SB002-0.5-1.0DSO	0.5 to 1.0		
0725F5SB002-1.5-2.0DSO	1.5 to 2.0		

Table 4.3 – SWMU 25 Trash Burning Ground Property Disposal Office
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
0725F5SB002-5.0-5.5.0DSO	5.0 to 5.5	TAL metals (6020B/7471B)	NMED Comments #29, #32, #34, and #38 (**Appendix A**)
0725F5SB002-9.5-10.0DSO	9.5 to 10.0		
0725F5SB003-0.5-1.0DSO	0.5 to 1.0		
0725F5SB003-1.5-2.0DSO	1.5 to 2.0 *		
0725F5SB003-5.0-5.5.0DSO	5.0 to 5.5		
0725F5SB003-9.5-10.0DSO	9.5 to 10.0		
0725F5SB004-0.5-1.0DSO	0.5 to 1.0	TAL Metals (6020B/7471B), Chlorinated Pesticides (8081B), Herbicides (8321B), TPH-DRO (8015D), PCBs (8082A), SVOCs (SW8270E), VOCs (8260D), Explosive Compounds (8330B) and Dioxins/ Furans (8290A).	NMED Comments (**Appendix A**).
0725F5SB004-1.5-2.0DSO	1.5 to 2.0		
0725F5SB004-5.0-5.5.0DSO	5.0 to 5.5		
0725F5SB004-9.5-10.0DSO	9.5 to 10.0		
0725F5SB005-0.5-1.0DSO	0.5 to 1.0		
0725F5SB005-1.5-2.0DSO	1.5 to 2.0		
0725F5SB005-5.0-5.5.0DSO	5.0 to 5.5 *		
0725F5SB005-9.5-10.0DSO	9.5 to 10.0		
0725F5SB006-0.5-1.0DSO	0.5 to 1.0		
0725F5SB006-1.5-2.0DSO	1.5 to 2.0		
0725F5SB006-5.0-5.5.0DSO	5.0 to 5.5		
0725F5SB006-9.5-10.0DSO	9.5 to 10.0 *		

Table 4.3 – SWMU 25 Trash Burning Ground Property Disposal Office
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
QC Samples to be Collected			
Number of Primary Samples = 35			
Number of MS/MSD Samples (5%) = 2			
Number of Field Duplicate Samples (10%) = 4			

Notes:
F2 = Feature 2
F5 = Feature 5
SB = soil boring
DSO = discrete soil sample
* Indicates that a Field Duplicate sample will also be collected.

Table 5.1 – AOC 43 Railroad Classification Yard Data Quality Objectives

Step 1: State the Problem	Step 2: Identify the Goals of the Study	Step 3: Identify Information Inputs	Step 4: Define the Boundaries of the Study	Step 5: Develop the Analytic Approach (Decision Rules)	Step 6: Specify Performance or Acceptance Criteria	Step 7: Develop the Detailed Plan for Obtaining Data (Technical Approach Summary)
Concentrations of dioxins/furans TEQ were detected in soil sample 0743RCYSS010-0.5-1.0DSO at 0.000062 mg/kg above the screening value of 0.000049 mg/kg. NMED requested that the Army collect step-out and deeper soil samples to assess the lateral and vertical extent of dioxin/furan TEQ contamination along the railroad tracks to complete the report.	Determine the lateral and vertical extent of dioxins/furans in the vicinity of 0743RCYSS010.	Existing data as discussed in **Section 5.2** and new analytical results from proposed discrete soil samples as discussed in **Section 5.3**.	Proposed soil borings around 0743RCYSS010 and step-out borings that may be added to define the vertical and lateral extent of contamination.	As described in **Section 3.3**, the purpose of this investigation is to address data gaps and NMED comments (NMED, 2018). Analytical results will be compared to Human Health and Ecological Screening Levels (**Tables 6.4 through 6.6**).	All sampling and analysis will be performed in accordance with this Supplemental RFI Work Plan (**Section 6.0**).	As described in **Section 5.3**, proposed boring 0743RCYSB001 will be located adjacent to the earlier surface soil sample 0743RCYSS010-0.5-1.0DSO and soil samples will be collected at 5.0 to 5.5 and 9.5 to 10.0 feet bgs. Four step-out soil borings will be collected approximately 10 feet around former surface soil sample 0743RCYSS010-0.5-1.0DSO0 and soil samples will be collected at 0.5 to 1.0 and 1.5 to 2.0 feet bgs. If above the Human Health Screening Levels (**Tables 6.4 and 6.5**), then step-out locations will be placed at 10-foot intervals stepping out until the lateral extent of contamination is defined. Once lateral extent is defined, then two additional borings will be advanced deeper to confirm vertical contamination does not extend beyond this perimeter. These soil samples will be analyzed for dioxins/furans (8290A).

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Table 5.2 – AOC 43 Railroad Classification Yard
Summary of RFI Samples with Concentrations Exceeding Human Health Screening Levels

Sample Identification Number	Analyte	Detected Concentration (mg/kg)	Direct Contact SSL (mg/kg)	Lateral Extent Defined (yes/no)	Vertical Extent Defined (yes/no)
0743RCYSS010-0.0-0.5DSO	Dioxins/Furans TEQ	0.000062	0.000049	No	No

Note:
Data provided in **Appendix B** (**Tables B.5-1** through **B.5-7**).

Table 5.3 – AOC 43 Railroad Classification Yard
Summary of Proposed Supplemental RFI Samples to be Collected

Sample Identification Number	Sample Depth (feet)	Sample Analyses	Regulatory Requirement
0743RCYSB001-5.0-5.5.0DSO	5.0 to 5.5	Dioxins/ Furans (8290A)	NMED Comment #49 (**Appendix A**)
0743RCYSB001-9.5-10.0DSO	9.5 to 10.0		
0743RCYSB002-0.5-1.0DSO (1)	0.5 to 1.0		
0743RCYSB002-1.5-2.0DSO (1)	1.5 to 2.0		
0743RCYSB003-0.5-1.0DSO (1)	0.5 to 1.0		
0743RCYSB003-1.5-2.0DSO (1)	1.5 to 2.0		
0743RCYSB003-5.0-5.5DSO (2)	5.0 to 5.5		
0743RCYSB003-9.5-10.0DSO (2)	9.5 to 10.0		
0743RCYSB004-0.5-1.0DSO (1)	0.5 to 1.0		
0743RCYSB004-1.5-2.0DSO (1)	1.5 to 2.0 *		
0743RCYSB005-0.5-1.0DSO (1)	0.5 to 1.0		
0743RCYSB005-1.5-2.0DSO (1)	1.5 to 2.0		
0743RCYSB005-5.0-5.5.0DSO (2)	5.0 to 5.5		
0743RCYSB005-9.5-10.0DSO (2)	9.5 to 10.0 *		
QC Samples to be Collected			
Number of Primary Samples = 14 (3)			
Number of MS/MSD Samples (5%) = 1 (3)			
Number of Field Duplicate Samples (10%) = 2 (3)			

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Notes:

(1) If any of these results are above the Human Health Screening Levels (**Table 6.4**), then step-out will be advanced as discussed in **Section 5.4** and potential locations are shown on **Figure 5.4**.

(2) If step-out samples are collected, these samples will be collected from the outermost boring in that direction.

(3) If step-out samples are collected, then additional QC samples will be collected as needed.

* Indicates that a Field Duplicate sample will also be collected.

DSO = discreet soil sample SB = soil boring

RCY = Railroad Classification Yard TBD = To be determined based on initial results

Table 6.1 – Summary of Analytical Methods, Sample Containers, Preservation, and Holding Times

Analysis (or Analysis Preparation Method)	Matrix	Analytical Method (EPA SW846 or ASTM)	Sample Volume/Container	Preservative	Maximum Holding Time (collection until extraction/extraction until analysis)
Volatile Organic Compounds	Soil	8260D	2 x Terra Core®, 40-mL VOA Vials with septa cap, pre-tared with stir bar and Sodium Bisulfate 1 x Terra Core®, 40-mL VOA vial with closed cap, pre-tared with Methanol	Cool to ≤ 6°C (Methanol)	14 days if preserved with sodium bisulfate and methanol
Semi-Volatile Organic Compounds	Soil	8270E, 8270E SIM	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	14/40 days
Polychlorinated Biphenyls	Soil	8082A	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	1 year/40 days
Chlorinated Pesticides	Soil	8081B	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	14/40 days
Herbicides	Soil	8321B	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	14/40 days
TAL Metals	Soil	6020B/7471B	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	6 months (28 days for Hg)
Total Petroleum Hydrocarbons – Gasoline-Range Organics	Soil	8015D	2 x Terra Core®, 40-mL VOA vials with closed cap, pre-tared with Methanol	Cool to ≤ 6°C (Methanol)	14 days

Table 6.1 – Summary of Analytical Methods, Sample Containers, Preservation, and Holding Times

Analysis (or Analysis Preparation Method)	Matrix	Analytical Method (EPA SW846 or ASTM)	Sample Volume/Container	Preservative	Maximum Holding Time (collection until extraction/extraction until analysis)
Total Petroleum Hydrocarbons – Diesel-Range Organics	Soil	8015D	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	14/40 days
Total Petroleum Hydrocarbons – Diesel-Range Organics Extended (C10-C36)	Soil	8015D	4-oz or 8-oz Glass Jar	Cool to ≤ 6°C	14/40 days
Dioxins/Furans	Soil	8290A	8-oz Amber Glass Jar	Cool to ≤ 6°C	1 year
Explosives	Soil	8330B	2 x 8-oz Glass Jar or 1- gallon bag	Cool to ≤ 6°C	14/40 days

Notes:

[A] ASTM 422 does not specify a holding time for grain size analysis.

[B] SPLP is a preparation method for soil samples.

[C] The holding time for samples prepared using SPLP is the holding time for the analytical method appropriate for the analyte(s) of interest; the shortest holding time is listed.

Act Hg = mercury
mL = milliliter(s)
oz = ounce(s)
ORP = oxygen reduction potential
CEC = cation exchange capacity
TAL = target analyte list
VOA = volatile organic analysis
SPLP = synthetic leachate precipitation procedure
HDPE = high density polyethylene
ASTM = American Society of Testing and Materials

Samples will be analyzed using the most recently published versions of the analytical methods.

More than one analysis may be performed from the same sample container, as long as all preservation requirements have been met and there is sufficient sample mass available.

Selected samples from each AOC or SWMU may also be analyzed for pH, ORP, CEC, grain size, SPLP, and % moisture.

Table 6.2 – Quality Control Samples for Precision and Accuracy

Data Quality Indicator	Quality Control Type	Minimum Frequency	Measurement Performance Criteria (MPC)
Precision	Field Duplicate Sample	One every 10 samples (10%)	RPD ≤ 50% for soil and ≤30% for water when target analytes are detected in both samples with concentrations > LOQ
Accuracy/Contamination	Equipment Blank	One every 10 samples (10%) for reusable equipment	No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater
Accuracy/Contamination	Trip Blank	One set (two VOAs) per each cooler containing VOC samples	No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater
Accuracy/Contamination	Method Blank	One per preparation or analytical batch, at least one every 20 samples (rounded up) (5%)	No analytes detected > ½ LOQ or > 1/10th the amount measured in any sample or 1/10th the regulatory limit, whichever is greater
Accuracy/Precision	Laboratory Control Sample or Blank Spike	One per preparation or analytical batch, at least one every 20 samples (rounded up) (5%)	Per QSM criteria. Control limits for each method included in Worksheet #28 of the QAPP.
Accuracy/Precision	MS Percent Recovery (QSM Percent Recovery Goals)	One every 20 samples (rounded up) (5%)	Per QSM criteria. Control limits for each method included in Worksheet #28 of the QAPP.
Accuracy/Precision	Surrogate Spike (for organics only)	All samples and QC	Per QSM criteria. Control limits for each method included in Worksheet #28 of the QAPP.

Notes:

LOQ = Limit of Quantitation
MS = matrix spike
MSD = matrix spike duplicate
QAPP = Quality Assurance Project Plan
QC = quality control
QSM = Quality Systems Manual (U.S. Department of Defense)
RPD = relative percent difference
VOA = volatile organic analysis
VOC = volatile organic compound

Table 6.3 – Data Validation Flags

Data Qualifiers	Definitions
U	The analyte was not detected and was reported as less than the limit of quantitation (LOQ). The LOQ has been adjusted for any dilution or concentration of the sample.
J	The reported result was an estimated value with an unknown bias.
J+	The result was an estimated quantity, but the result may be biased high.
J-	The result was an estimated quantity, but the result may be biased low.
UJ	The analyte was not detected and was reported as less than the LOQ. However, the associated numerical value is approximate.
X	The sample results (including non-detects) were affected by serious deficiencies in the ability to analyze the sample and to meet published method and project quality control criteria. The presence or absence of the analyte cannot be substantiated by the data provided. Acceptance (J-flag) or rejection (R-flag) of the data should be decided by the project team during the data usability assessment and documented in the data usability assessment report.

Note: Analytical data will report all detections at or above the detection limit (DL) and qualify all results between the DL and limit of quantitation (LOQ) "J" as estimated. All non-detect results will be reported at the LOQ and qualified "U".

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Table 6.4 – Direct Contact Human Health Screening Levels in Soil

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
TAL Metals																	
Aluminum	-	SW6020B	7429-90-5	mg/kg	23,340	NS	78000	NS	1290000	NS	41400	-	-	-	-	41400	NMED SSL
Antimony	-	SW6020B	7440-36-0	mg/kg	0.23	NS	31.3	NS	519	NS	142	-	-	-	-	31.3	NMED SSL
Arsenic	-	SW6020B	7440-38-2	mg/kg	5.60	7.07	13.0	35.9	208	216	41.2	-	-	-	-	7.07	NMED SSL
Barium	-	SW6020B	7440-39-3	mg/kg	482	NS	15600	NS	255000	NS	4390	-	-	-	-	4390	NMED SSL
Beryllium	-	SW6020B	7440-41-7	mg/kg	1.49	64400	156	313000	2580	2710	148	-	-	-	-	148	NMED SSL
Cadmium	-	SW6020B	7440-43-9	mg/kg	0.224	85900	70.5	417000	1110	3610	72.1	-	-	-	-	70.5	NMED SSL
Calcium	-	SW6020B	7440-70-2	mg/kg	91,760	NS	13000000	NS	32400000	NS	8850000	-	-	-	-	8850000	NMED SSL
Cobalt	-	SW6020B	7440-48-4	mg/kg	6.82	17200	23.4	83400	388	722	36.7	-	-	-	-	23.4	NMED SSL
Copper	-	SW6020B	7440-50-8	mg/kg	18.4	NS	3130	NS	51900	NS	14200	-	-	-	-	3130	NMED SSL
Iron	-	SW6020B	7439-89-6	mg/kg	22,660	NS	54800	NS	908000	NS	248000	-	-	-	-	54800	NMED SSL
Lead (6)	-	SW6020B	7439-92-1	mg/kg	12.4	NS	NS	NS	NS	NS	NS	NS	200	NS	800	200	EPA RSL
Magnesium	-	SW6020B	7439-95-4	mg/kg	8,170	NS	15600000	NS	5680000	NS	1550000	-	-	-	-	1550000	NMED SSL
Manganese (7)	-	SW6020B	7439-96-5	mg/kg	1,058	NS	10500	NS	160000	NS	464	-	-	-	-	464	NMED SSL
Mercury	-	SW7471B	7439-97-6	mg/kg	0.0300	NS	23.8	NS	112	NS	20.7	-	-	-	-	20.7	NMED SSL
Nickel	-	SW6020B	7440-02-0	mg/kg	19.5	595000	1560	2890000	25700	25000	753	-	-	-	-	753	NMED SSL
Potassium	-	SW6020B	7440-09-7	mg/kg	3,950	NS	15600000	NS	76200000	NS	20800000	-	-	-	-	15600000	NMED SSL
Selenium	-	SW6020B	7782-49-2	mg/kg	0.513	NS	391	NS	6490	NS	1750	-	-	-	-	391	NMED SSL
Silver	-	SW6020B	7440-22-4	mg/kg	0.130	NS	391	NS	6490	NS	1770	-	-	-	-	391	NMED SSL
Sodium	-	SW6020B	7440-23-5	mg/kg	2,526	NS	7820000	NS	37300000	NS	10200000	-	-	-	-	7820000	NMED SSL
Thallium	-	SW6020B	7440-28-0	mg/kg	0.213	NS	0.782	NS	13.0	NS	3.54	-	-	-	-	0.782	NMED SSL
Total Chromium	-	SW6020B	7440-47-3	mg/kg	18.1	96.6	45200	505	314000	468	134	-	-	-	-	96.6	NMED SSL
Vanadium	-	SW6020B	7440-62-2	mg/kg	27.2	NS	394	NS	6530	NS	614	-	-	-	-	394	NMED SSL
Zinc	-	SW6020B	7440-66-6	mg/kg	49.2	NS	23500	NS	389000	NS	106000	-	-	-	-	23500	NMED SSL
Hexavalent Chromium																	
Chromium, hexavalent	-	SW7199	18540-29-9	mg/kg	N/A	3.05	235	72.1	3890	66.9	498	-	-	-	-	3.05	NMED SSL
Semi-Volatile Organic Compounds																	
2,2-Oxybis(1-chloropropane)	-	SW8270E	108-60-1	mg/kg	N/A	99.3	NS	519	NS	3540	NS	-	-	-	-	99.3	NMED SSL
2,4,5-Trichlorophenol	-	SW8270E	95-95-4	mg/kg	N/A	NS	6160	NS	91600	NS	26900	-	-	-	-	6160	NMED SSL
2,4,6-Trichlorophenol	-	SW8270E	88-06-2	mg/kg	N/A	484	61.6	2330	916	17000	269	-	-	-	-	61.6	NMED SSL
2,4-Dichlorophenol	-	SW8270E	120-83-2	mg/kg	N/A	NS	185	NS	2750	NS	807	-	-	-	-	185	NMED SSL
2,4-Dimethylphenol	-	SW8270E	105-67-9	mg/kg	N/A	NS	1230	NS	18300	NS	5380	-	-	-	-	1230	NMED SSL
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	N/A	NS	123	NS	1830	NS	538	-	-	-	-	123	NMED SSL
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	N/A	17.1	123	82.3	1820	600	536	-	-	-	-	17.1	NMED SSL
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	N/A	3.56	18.5	17.2	276	165	80.9	-	-	-	-	3.56	NMED SSL
2-Chloronaphthalene	-	SW8270E	91-58-7	mg/kg	N/A	NS	6260	NS	104000	NS	28300	-	-	-	-	6260	NMED SSL
2-Chlorophenol	-	SW8270E	95-57-8	mg/kg	N/A	NS	391	NS	6490	NS	1770	-	-	-	-	391	NMED SSL
2-Methylphenol	-	SW8270E	95-48-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3200	NS	41000	3200	EPA RSL
2-Nitroaniline	-	SW8270E	88-74-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8000	630	EPA RSL

Table 6.4 – Direct Contact Human Health Screening Levels in Soil

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Semi-Volatile Organic Compounds (Continued)																	
2-Nitrophenol	-	SW8270E	88-75-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
3 & 4 Methylphenol	p-cresol	SW8270E	15831-10-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1300	NS	16000	1300	NMED SSL
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	N/A	11.8	NS	57.0	NS	410	NS	-	-	-	-	11.8	NMED SSL
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	NS	NS	NS	NS	NS	NS	270	250	1100	3300	250	EPA RSL
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	N/A	NS	4.93	NS	73.3	NS	21.5	-	-	-	-	4.93	NMED SSL
4-Bromophenyl-phenyl ether	-	SW8270E	101-55-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4-Chloro-3-Methylphenol	-	SW8270E	59-50-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	6300	NS	82000	6300	EPA RSL
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	27	32	110	410	27	EPA RSL
4-Chlorophenyl-phenyl ether	-	SW8270E	7005-72-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	270	250	1100	3300	250	EPA RSL
4-Nitrophenol	-	SW8270E	100-02-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Benzaldehyde	-	SW8270E	100-52-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	1700	7800	8200	120000	1700	EPA RSL
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	190	NS	2500	190	EPA RSL
Bis(2-Chloroethyl)Ether	Bis(2-Chloroisopropyl)Ether	SW8270E	111-44-4	mg/kg	N/A	3.11	NS	15.7	NS	1.95	NS	-	-	-	-	1.95	NMED SSL
Bis(2-Ethylhexyl)Phthalate	-	SW8270E	117-81-7	mg/kg	N/A	380	1230	1830	18300	13400	5380	-	-	-	-	380	NMED SSL
Butylbenzylphthalate	-	SW8270E	85-68-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	2900	13000	12000	160000	2900	EPA RSL
Caprolactam	-	SW8270E	105-60-2	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	31000	NS	400000	31000	EPA RSL
Carbazole	Fluorene	SW8270E	86-74-8	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-	2320	NMED SSL
Dibenzofuran	-	SW8270E	132-64-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	78	NS	1200	78.0	EPA RSL
Diethylphthalate	-	SW8270E	84-66-2	mg/kg	N/A	NS	49300	NS	733000	NS	215000	-	-	-	-	49300	NMED SSL
Dimethylphthalate	-	SW8270E	131-11-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Di-N-Butylphthalate	-	SW8270E	84-74-2	mg/kg	N/A	NS	6160	NS	91600	NS	26900	-	-	-	-	6160	NMED SSL
Di-n-Octylphthalate	-	SW8270E	117-84-0	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8200	630	EPA RSL
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	N/A	3.33	49.3	16.0	733	117	215	-	-	-	-	3.33	NMED SSL
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	N/A	68.3	61.6	52.1	916	2400	269	-	-	-	-	52.1	NMED SSL
Hexachlorocyclopentadiene	-	SW8270E	77-47-4	mg/kg	N/A	68.3	61.6	52.1	916	2400	269	-	-	-	-	52.1	NMED SSL
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	N/A	133	43.1	641	641	4670	188	-	-	-	-	43.1	NMED SSL
Isophorone	-	SW8270E	78-59-1	mg/kg	N/A	5610	12300	27000	183000	198000	53700	-	-	-	-	5610	NMED SSL
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	N/A	60.4	131	293	1540	1350	353	-	-	-	-	60.4	NMED SSL
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	0.78	NS	3.3	NS	0.78	EPA RSL
N-Nitrosodiphenylamine	-	SW8270E	86-30-6	mg/kg	N/A	1090	NS	5240	NS	37900	NS	-	-	-	-	1090	NMED SSL
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	N/A	9.85	234	44.5	3180	346	989	-	-	-	-	9.85	NMED SSL
Phenol	-	SW8270E	108-95-2	mg/kg	N/A	NS	18500	NS	275000	NS	77400	-	-	-	-	18500	NMED SSL
Polycyclic Aromatic Hydrocarbons																	
2-Methylnaphthalene	-	SW8270E	91-57-6	mg/kg	N/A	NS	232	NS	3370	NS	1000	-	-	-	-	232	NMED SSL
Acenaphthene	-	SW8270E	83-32-9	mg/kg	N/A	NS	3480	NS	50500	NS	15100	-	-	-	-	3480	NMED SSL
Acenaphthylene	Pyrene	SW8270E	208-96-8	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
Anthracene	-	SW8270E	120-12-7	mg/kg	N/A	NS	17400	NS	253000	NS	75300	-	-	-	-	17400	NMED SSL

Table 6.4 – Direct Contact Human Health Screening Levels in Soil

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Polycyclic Aromatic Hydrocarbons (Continued)																	
Benzo(a)anthracene	-	SW8270E	56-55-3	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Benzo(a)pyrene	-	SW8270E	50-32-8	mg/kg	N/A	1.12	17.4	23.6	251	173	15.0	-	-	-	-	1.12	NMED SSL
Benzo(b)fluoranthene	-	SW8270E	205-99-2	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Benzo(k)fluoranthene	-	SW8270E	207-08-9	mg/kg	N/A	15.3	NS	323	NS	2310	NS	-	-	-	-	15.3	NMED SSL
Benzo(g,h,i)perylene	Pyrene	SW8270E	191-24-2	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
Chrysene	-	SW8270E	218-01-9	mg/kg	N/A	153	NS	3230	NS	23100	NS	-	-	-	-	153	NMED SSL
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	N/A	0.153	NS	3.23	NS	24.0	NS	-	-	-	-	0.153	NMED SSL
Fluoranthene	-	SW8270E	206-44-0	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-	2320	NMED SSL
Fluorene	-	SW8270E	86-73-7	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-	2320	NMED SSL
Indeno(1,2,3-cd)pyrene	-	SW8270E	193-39-5	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Naphthalene	-	SW8270E	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-	22.6	NMED SSL
Phenanthrene	-	SW8270E	85-01-8	mg/kg	N/A	NS	1850	NS	27500	NS	8070	-	-	-	-	1850	NMED SSL
Pyrene	-	SW8270E	129-00-0	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
1-Methylnaphthalene	-	SW8270E SIM	90-12-0	mg/kg	N/A	172	4060	813	58900	6060	17600	-	-	-	-	172	NMED SSL
2-Methylnaphthalene	-	SW8270E SIM	91-57-6	mg/kg	N/A	NS	232	NS	3370	NS	1000	-	-	-	-	232	NMED SSL
Acenaphthene	-	SW8270E SIM	83-32-9	mg/kg	N/A	NS	3480	NS	50500	NS	15100	-	-	-	-	3480	NMED SSL
Acenaphthylene	Pyrene	SW8270E SIM	208-96-8	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
Anthracene	-	SW8270E SIM	120-12-7	mg/kg	N/A	NS	17400	NS	253000	NS	75300	-	-	-	-	17400	NMED SSL
Benzo(a)anthracene	-	SW8270E SIM	56-55-3	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Benzo(a)pyrene	-	SW8270E SIM	50-32-8	mg/kg	N/A	1.12	17.4	23.6	251	173	15.0	-	-	-	-	1.12	NMED SSL
Benzo(b)fluoranthene	-	SW8270E SIM	205-99-2	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Benzo(k)fluoranthene	-	SW8270E SIM	207-08-9	mg/kg	N/A	15.3	NS	323	NS	2310	NS	-	-	-	-	15.3	NMED SSL
Benzo(g,h,i)perylene	Pyrene	SW8270E SIM	191-24-2	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
Chrysene	-	SW8270E SIM	218-01-9	mg/kg	N/A	153	NS	3230	NS	23100	NS	-	-	-	-	153	NMED SSL
Dibenz(a,h)anthracene	-	SW8270E SIM	53-70-3	mg/kg	N/A	0.153	NS	3.23	NS	24.0	NS	-	-	-	-	0.153	NMED SSL
Fluoranthene	-	SW8270E SIM	206-44-0	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-	2320	NMED SSL
Fluorene	-	SW8270E SIM	86-73-7	mg/kg	N/A	NS	2320	NS	33700	NS	10000	-	-	-	-	2320	NMED SSL
Indeno(1,2,3-cd)pyrene	-	SW8270E SIM	193-39-5	mg/kg	N/A	1.53	NS	32.3	NS	240	NS	-	-	-	-	1.53	NMED SSL
Naphthalene	-	SW8270E SIM	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-	22.6	NMED SSL
Phenanthrene	-	SW8270E SIM	85-01-8	mg/kg	N/A	NS	1850	NS	27500	NS	8070	-	-	-	-	1850	NMED SSL
Pyrene	-	SW8270E SIM	129-00-0	mg/kg	N/A	NS	1740	NS	25300	NS	7530	-	-	-	-	1740	NMED SSL
Volatile Organic Compounds																	
1,1,1,2-Tetrachloroethane	-	SW8260D	630-20-6	mg/kg	N/A	28.1	2350	137	38900	659	10600	-	-	-	-	28.1	NMED SSL
1,1,1-Trichloroethane	-	SW8260D	71-55-6	mg/kg	N/A	NS	14400	NS	72500	NS	13600	-	-	-	-	13600	NMED SSL
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	N/A	7.98	1560	39.4	26000	197	7080	-	-	-	-	7.98	NMED SSL
1,1,2-Trichloroethane	-	SW8260D	79-00-5	mg/kg	N/A	18.8	2.61	92.1	12.4	4300	2.30	-	-	-	-	2.30	NMED SSL
1,1-Dichloroethane	-	SW8260D	75-34-3	mg/kg	N/A	78.6	15600	383	260000	1820	70800	-	-	-	-	78.6	NMED SSL
1,1-Dichloroethene	-	SW8260D	75-35-4	mg/kg	N/A	NS	440	NS	2260	NS	424	-	-	-	-	424	NMED SSL

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Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Volatile Organic Compounds (Continued)																	
1,1-Dichloropropene	1,3-Dichloropropene	SW8260D	563-58-6	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-	29.3	NMED SSL
1,2,3-Trichlorobenzene	-	SW8260D	87-61-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	63	NS	930	63.0	EPA RSL
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	N/A	0.0510	7.09	1.21	34.0	8.26	6.31	-	-	-	-	0.0510	NMED SSL
1,2,4-Trichlorobenzene	-	SW8260D	120-82-1	mg/kg	N/A	240	82.9	1250	423	8540	79.1	-	-	-	-	79.1	NMED SSL
1,2,4-Trimethylbenzene	-	SW8260D	95-63-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	300	NS	1800	300	EPA RSL
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	N/A	0.0858	5.88	1.18	41.1	5.53	8.29	-	-	-	-	0.0858	NMED SSL
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	N/A	0.672	135	3.31	738	16.3	140	-	-	-	-	0.672	NMED SSL
1,2-Dichlorobenzene	-	SW8260D	95-50-1	mg/kg	N/A	NS	2150	NS	13000	NS	2500	-	-	-	-	2150	NMED SSL
1,2-Dichloroethane	-	SW8260D	107-06-2	mg/kg	N/A	8.32	55.6	40.7	286	195	53.8	-	-	-	-	8.32	NMED SSL
1,2-Dichloropropane	-	SW8260D	78-87-5	mg/kg	N/A	17.8	29.0	86.8	137	415	25.4	-	-	-	-	17.8	NMED SSL
1,3,5-Trimethylbenzene	-	SW8260D	108-67-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	270	NS	1500	270	EPA RSL
1,3-Dichloropropane	-	SW8260D	142-28-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1600	NS	23000	1600	EPA RSL
1,3-Dichlorobenzene	1,4-Dichlorobenzene	SW8260D	541-73-1	mg/kg	N/A	1290	5480	6730	90800	45900	24800	-	-	-	-	1290	NMED SSL
1,4-Dichlorobenzene	-	SW8260D	106-46-7	mg/kg	N/A	1290	5480	6730	90800	45900	24800	-	-	-	-	1290	NMED SSL
2,2-Dichloropropane	1,2-Dichloropropane	SW8260D	594-20-7	mg/kg	N/A	17.8	29.0	86.8	137	415	25.4	-	-	-	-	17.8	NMED SSL
2-Butanone (MEK)	-	SW8260D	78-93-3	mg/kg	N/A	NS	37400	NS	411000	NS	91700	-	-	-	-	37400	NMED SSL
2-Chlorotoluene	-	SW8260D	95-49-8	mg/kg	N/A	NS	1560	NS	26000	NS	7080	-	-	-	-	1560	NMED SSL
2-Hexanone	-	SW8260D	591-78-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	200	NS	1300	200	EPA RSL
4-Chlorotoluene	-	SW8260D	106-43-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1600	NS	23000	1600	EPA RSL
4-Methyl-2-Pentanone (MIBK)	-	SW8260D	108-10-1	mg/kg	N/A	NS	5810	NS	81600	NS	20200	-	-	-	-	5810	NMED SSL
Acetone	-	SW8260D	67-64-1	mg/kg	N/A	NS	66300	NS	960000	NS	242000	-	-	-	-	66300	NMED SSL
Benzene	-	SW8260D	71-43-2	mg/kg	N/A	17.8	114	87.2	729	423	142	-	-	-	-	17.8	NMED SSL
Bromobenzene	-	SW8260D	108-86-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	290	NS	1800	290	EPA RSL
Bromochloromethane	-	SW8260D	74-97-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	150	NS	630	150	EPA RSL
Bromodichloromethane	-	SW8260D	75-27-4	mg/kg	N/A	6.19	1560	30.2	26000	143	7080	-	-	-	-	6.19	NMED SSL
Bromoform	-	SW8260D	75-25-2	mg/kg	N/A	674	1230	1760	18300	23700	5380	-	-	-	-	674	NMED SSL
Bromomethane	-	SW8260D	74-83-9	mg/kg	N/A	NS	17.7	NS	94.5	NS	17.9	-	-	-	-	17.7	NMED SSL
Carbon Disulfide	-	SW8260D	75-15-0	mg/kg	N/A	NS	1550	NS	8540	NS	1620	-	-	-	-	1550	NMED SSL
Carbon Tetrachloride	-	SW8260D	56-23-5	mg/kg	N/A	10.7	144	52.5	1020	252	202	-	-	-	-	10.7	NMED SSL
Chlorobenzene	-	SW8260D	108-90-7	mg/kg	N/A	NS	378	NS	2160	NS	412	-	-	-	-	378	NMED SSL
Chloroethane	-	SW8260D	75-00-3	mg/kg	N/A	NS	19000	NS	89500	NS	16600	-	-	-	-	16600	NMED SSL
Chloroform	-	SW8260D	67-66-3	mg/kg	N/A	5.90	306	28.7	2000	134	391	-	-	-	-	5.90	NMED SSL
Chloromethane	-	SW8260D	74-87-3	mg/kg	N/A	41.1	268	201	1260	956	235	-	-	-	-	41.1	NMED SSL
cis-1,2-Dichloroethene	-	SW8260D	156-59-2	mg/kg	N/A	NS	156	NS	2600	NS	708	-	-	-	-	156	NMED SSL
cis-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-	29.3	NMED SSL
Dibromochloromethane	-	SW8260D	124-48-1	mg/kg	N/A	13.9	1230	67.4	18300	340	5380	-	-	-	-	13.9	NMED SSL
Dibromomethane	-	SW8260D	74-95-3	mg/kg	N/A	NS	57.9	NS	288	NS	53.9	-	-	-	-	53.9	NMED SSL
Dichlorodifluoromethane	-	SW8260D	75-71-8	mg/kg	N/A	NS	182	NS	865	NS	161	-	-	-	-	161	NMED SSL

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Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Volatile Organic Compounds (Continued)																	
Ethylbenzene	-	SW8260D	100-41-4	mg/kg	N/A	75.1	3930	368	29000	1770	5800	-	-	-	-	75.1	NMED SSL
Hexachlorobutadiene	-	SW8260D	87-68-3	mg/kg	N/A	68.3	61.6	52.1	916	2400	269	-	-	-	-	52.1	NMED SSL
Isopropylbenzene	-	SW8260D	98-82-8	mg/kg	N/A	NS	2360	NS	14200	NS	2740	-	-	-	-	2360	NMED SSL
Methyl acetate	-	SW8260D	79-20-9	mg/kg	N/A	NS	78200	NS	1300000	NS	354000	-	-	-	-	78200	NMED SSL
m,p-Xylenes	Xylenes	SW8260D	179601-23-1	mg/kg	N/A	NS	871	NS	4280	NS	798	-	-	-	-	798	EPA RSL
Methyl Tert-Butyl Ether	-	SW8260D	1634-04-4	mg/kg	N/A	975	37800	4820	178000	24200	33100	-	-	-	-	975	NMED SSL
Methylene Chloride	-	SW8260D	75-09-2	mg/kg	N/A	766	409	14400	5130	89600	1210	-	-	-	-	409	NMED SSL
Naphthalene	-	SW8260D	91-20-3	mg/kg	N/A	22.6	162	108	843	633	159	-	-	-	-	22.6	NMED SSL
n-Butylbenzene	-	SW8260D	104-51-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3900	NS	58000	3900	EPA RSL
n-Propylbenzene	-	SW8260D	103-65-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	3800	NS	24000	3800	EPA RSL
o-Xylene	-	SW8260D	95-47-6	mg/kg	N/A	NS	805	NS	3940	NS	736	-	-	-	-	736	NMED SSL
4-Isopropyltoluene	Isopropylbenzene	SW8260D	99-87-6	mg/kg	N/A	NS	2360	NS	14200	NS	2740	-	-	-	-	2360	NMED SSL
Sec-Butylbenzene	-	SW8260D	135-98-8	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	7800	NS	120000	7800	EPA RSL
Styrene	-	SW8260D	100-42-5	mg/kg	N/A	NS	7260	NS	51300	NS	10200	-	-	-	-	7260	NMED SSL
Tert-Butylbenzene	-	SW8260D	98-06-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	7800	NS	120000	7800	EPA RSL
Tetrachloroethene	-	SW8260D	127-18-4	mg/kg	N/A	337	111	1650	629	7910	120	-	-	-	-	111	NMED SSL
Toluene	-	SW8260D	108-88-3	mg/kg	N/A	NS	5230	NS	61300	NS	14000	-	-	-	-	5230	NMED SSL
Trans-1,2-Dichloroethene	-	SW8260D	156-60-5	mg/kg	N/A	NS	210	NS	1100	NS	206	-	-	-	-	206	NMED SSL
Trans-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	N/A	29.3	141	146	695	781	130	-	-	-	-	29.3	NMED SSL
Trichloroethene	-	SW8260D	79-01-6	mg/kg	N/A	15.5	6.77	112	36.5	5370	6.90	-	-	-	-	6.77	NMED SSL
Trichlorofluoromethane	-	SW8260D	75-69-4	mg/kg	N/A	NS	1230	NS	6030	NS	1130	-	-	-	-	1130	NMED SSL
Vinyl Chloride	-	SW8260D	75-01-4	mg/kg	N/A	0.742	113	28.4	816	161	162	-	-	-	-	0.742	NMED SSL
Explosives																	
1,3,5-Trinitrobenzene	-	SW8330B	99-35-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	2200	NS	32000	2200	EPA RSL
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	6.3	NS	82	6.30	EPA RSL
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	N/A	17.1	123	82.3	1820	600	536	-	-	-	-	17.1	NMED SSL
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	N/A	3.56	18.5	17.2	276	165	80.9	-	-	-	-	3.56	NMED SSL
2,4,6-Trinitrotoluene (TNT)	-	SW8330B	118-96-7	mg/kg	N/A	211	36.0	1070	573	7500	161	-	-	-	-	36.0	NMED SSL
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	N/A	NS	7.70	NS	127	NS	17.3	-	-	-	-	7.70	NMED SSL
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	N/A	31.6	70.4	165	1170	1130	319	-	-	-	-	31.6	NMED SSL
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	N/A	NS	6.16	NS	91.6	NS	26.9	-	-	-	-	6.16	NMED SSL
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	N/A	NS	7.64	NS	125	NS	17.3	-	-	-	-	7.64	NMED SSL
4-Nitrotoluene	-	SW8330B	99-99-0	mg/kg	N/A	333	247	1600	3670	11800	1080	-	-	-	-	247	NMED SSL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	N/A	83.1	301	428	4890	2960	1350	-	-	-	-	83.1	NMED SSL
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	-	SW8330B	479-45-8	mg/kg	N/A	NS	156	NS	2590	NS	706	-	-	-	-	156	NMED SSL
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	N/A	60.4	131	293	1540	1350	353	-	-	-	-	60.4	NMED SSL

Table 6.4 – Direct Contact Human Health Screening Levels in Soil

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Explosives (Continued)																	
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	N/A	313	6.16	1510	91.6	11100	26.9	-	-	-	-	6.16	NMED SSL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	SW8330B	2691-41-0	mg/kg	N/A	NS	3850	NS	63300	NS	17400	-	-	-	-	3850	NMED SSL
Pentaerythritol Tetranitrate (PETN)	-	SW8330B	78-11-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	1300	570	5300	7400	570	EPA RSL
Total Petroleum Hydrocarbons																	
GRO (C6-C10)	-	SW8015D	8006-61-1	mg/kg	N/A	NS	100	NS	500	NS	500	-	-	-	-	100	NMED SSL
DRO (C10-C28)	-	SW8015D	68334-30-5	mg/kg	N/A	NS	1000	NS	3000	NS	3000	-	-	-	-	1000	NMED SSL
DRO Extended (C10-C36)	-	SW8015D	68334-30-5	mg/kg	N/A	NS	1000	NS	3000	NS	3000	-	-	-	-	1000	NMED SSL
PCBs																	
Aroclor 1016	-	SW8082A	12674-11-2	mg/kg	N/A	69.6	3.98	304	57.4	2440	17.2	-	-	-	-	3.98	NMED SSL
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	N/A	1.81	NS	8.57	NS	55.3	NS	-	-	-	-	1.81	NMED SSL
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	N/A	1.86	NS	8.82	NS	57.6	NS	-	-	-	-	1.86	NMED SSL
Aroclor 1242	-	SW8082A	53469-21-9	mg/kg	N/A	2.43	NS	10.9	NS	85.3	NS	-	-	-	-	2.43	NMED SSL
Aroclor 1248	-	SW8082A	12672-29-6	mg/kg	N/A	2.43	NS	10.7	NS	85.3	NS	-	-	-	-	2.43	NMED SSL
Aroclor 1254	-	SW8082A	11097-69-1	mg/kg	N/A	2.43	1.14	11.0	16.4	85.3	4.91	-	-	-	-	1.14	NMED SSL
Aroclor 1260	-	SW8082A	11096-82-5	mg/kg	N/A	2.43	NS	11.1	NS	85.3	NS	-	-	-	-	2.43	NMED SSL
Aroclor 1262	-	SW8082A	37324-23-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Aroclor 1268	-	SW8082A	11100-14-4	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Chlorinated Pesticides																	
alpha-BHC	-	SW8081B	319-84-6	mg/kg	N/A	0.845	493	4.07	7330	29.7	2150	-	-	-	-	0.845	NMED SSL
beta-BHC	-	SW8081B	319-85-7	mg/kg	N/A	2.96	NS	14.3	NS	104	NS	-	-	-	-	2.96	NMED SSL
delta-BHC	beta-BHC	SW8081B	319-86-8	mg/kg	N/A	2.96	NS	14.3	NS	104	NS	-	-	-	-	2.96	NMED SSL
gamma-BHC (Lindane)	-	SW8081B	58-89-9	mg/kg	N/A	5.63	21.2	28.3	334	198	94.3	-	-	-	-	5.63	NMED SSL
Heptachlor	-	SW8081B	76-44-8	mg/kg	N/A	1.18	30.8	5.70	458	41.5	135	-	-	-	-	1.18	NMED SSL
Aldrin	-	SW8081B	309-00-2	mg/kg	N/A	0.311	1.85	1.50	27.5	10.9	8.07	-	-	-	-	0.311	NMED SSL
Heptachlor Epoxide	-	SW8081B	1024-57-3	mg/kg	N/A	NS	NS	NS	NS	NS	NS	0.7	1.0	3.3	15	0.7	EPA RSL
Endosulfan I	Endosulfan	SW8081B	959-98-8	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-	370	NMED SSL
Endosulfan II	Endosulfan	SW8081B	33213-65-9	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-	370	NMED SSL
Dieldrin	-	SW8081B	60-57-1	mg/kg	N/A	0.333	3.08	1.60	45.8	11.7	13.5	-	-	-	-	0.333	NMED SSL
4,4'-DDD	-	SW8081B	72-54-8	mg/kg	N/A	22.2	NS	107	NS	778	NS	-	-	-	-	22.2	NMED SSL
4,4'-DDE	-	SW8081B	72-55-9	mg/kg	N/A	15.7	NS	75.5	NS	549	NS	-	-	-	-	15.7	NMED SSL
4,4'-DDT	-	SW8081B	50-29-3	mg/kg	N/A	18.7	36.2	95.0	577	659	162	-	-	-	-	18.7	NMED SSL
Endrin	-	SW8081B	72-20-8	mg/kg	N/A	NS	18.5	NS	275	NS	80.7	-	-	-	-	18.5	NMED SSL
Endrin Ketone		SW8081B	53494-70-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Endosulfan sulfate	Endosulfan	SW8081B	1031-07-8	mg/kg	N/A	NS	370	NS	5500	NS	1610	-	-	-	-	370	NMED SSL
Methoxychlor	-	SW8081B	72-43-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	320	NS	4100	320	EPA RSL
Endrin aldehyde	Endrin	SW8081B	7421-93-4	mg/kg	N/A	NS	18.5	NS	275	NS	80.7	-	-	-	-	18.5	NMED SSL
alpha-Chlordane	Chlordane	SW8081B	5103-71-9	mg/kg	N/A	17.7	35.3	89.0	556	623	153	-	-	-	-	17.7	NMED SSL

Table 6.4 – Direct Contact Human Health Screening Levels in Soil

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	NMED Table A-1 and Table 6-2 Human Health Screening Levels Direct Contact [3]						EPA-RSL Table Human Health Screening Levels Direct Contact [4]				Lowest Human Health Screening Level Direct Contact [5]	Lowest Human Health Screening Level Direct Contact Source [5]
						Residential		Industrial/ Occupational		Construction Worker		Residential		Industrial			
						cancer	noncancer	cancer	noncancer	cancer	noncancer	cancer adj to $1x10^{-5}$	noncancer HQ=1	cancer adj to $1x10^{-5}$	noncancer HQ=1		
Chlorinated Pesticides (Continued)																	
gamma-Chlordane	Chlordane	SW8081B	5103-74-2	mg/kg	N/A	17.7	35.3	89.0	556	623	153	-	-	-	-	17.7	NMED SSL
Toxaphene		SW8081B	8001-35-2	mg/kg	N/A	4.84	NS	23.3	NS	170	NS	-	-	-	-	4.84	NMED SSL
Herbicides																	
2,4-D	-	SW8321B	94-75-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	700	NS	9600	700	EPA RSL
2,4-DB	-	SW8321B	94-82-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
2,4,5-T	-	SW8321B	93-76-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	630	NS	8200	630	EPA RSL
2,4,5-TP (Silvex)	-	SW8321B	93-72-1	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	510	NS	6600	510	EPA RSL
Dicamba	-	SW8321B	1918-00-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	1900	NS	25000	1900	EPA RSL
Dichloroprop	-	SW8321B	120-36-5	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
Dinoseb	-	SW8321B	88-85-7	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	63	NS	820	63	EPA RSL
DCAA	-	SW8321B	19719-28-9	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	
MCPA	-	SW8321B	94-74-6	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	32	NS	410	32	EPA RSL
MCPP	-	SW8321B	93-65-2	mg/kg	N/A	NS	NS	NS	NS	NS	NS	NS	63	NS	820	63	EPA RSL
Dioxins/Furans																	
2,3,7,8-TCDD	-	SW8290	1746-01-6	mg/kg	N/A	0.000049	0.0000506	0.000238	0.000808	0.00172	0.000226	-	-	-	-	0.000049	NMED SSL

Notes:
1. Analytical Method - EPA Test Methods for Evaluating Solid Waste latest edition (the most current version of each method the laboratory is accredited to will be used).
2. Selected FWDA background values are presented in Table 8-1 from *Soil Background Study and Data Evaluation Report* (Shaw, 2010), except arsenic and antimony:
   - The arsenic background reference value is 5.6 mg/kg per Evaluation of Background Levels for Arsenic in Soil (NMED, 2013b). If the maximum arsenic concentration is greater than 5.6 mg/kg, then the range of arsenic concentrations in the sample data set is to be compared to the range of arsenic concentrations in the site-specific background data set (0.2 mg/kg to 11.2 mg/kg).
   - The antimony background level of 0.23 mg/kg is from soil unit 350ss as presented in Table 4-1 of the *Phase 2 Soil Background Report* (USACE, 2013).
3. NMED *Risk Assessment Guidance for Site Investigations and Remediation* , November 2022 Revised (Appendix A, Table A-1, residential, commercial/industrial, construction worker).
4. USEPA RSL Summary Table (TR=1E-06, HQ=1), May 2024 (resident soil and industrial soil). The RSLs for carcinogenic analytes are adjusted to a TR=1E-05. Provided for analytes without a NMED SSL.
5. The lesser of the NMED screening levels for residents, industrial/occupational workers, and construction workers (or EPA RSL (target excess cancer risk level of 1×10^{-5}) if there is no NMED screening level. The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.
6. Lead human health screening levels appear in the non-cancer column, but the health effects of lead are not correlated with the typical carcinogenic or non-carcinogenic dose-based toxicity values that characterize other chemicals. Instead, the screening level for lead is based on a modeled concentration in soil that results in an acceptable blood lead level protective of adverse developmental health effects (USEPA, 2024).
7. The background value for manganese is greater than the NMED human health screening level for direct contact.

Acronyms and Abbreviations:
CASRN = Chemical Abstracts Service Registry Number
DAF = Dilution attenuation factor
DRO = Diesel-range organics
EPA = United States Environmental Protection Agency
FWDA = Fort Wingate Depot Activity
HQ = Hazard quotient
MCL = Maximum contaminant level
mg/kg = Milligram per kilogram
N/A = Not applicable
NMED = New Mexico Environment Department
NMGW = New Mexico groundwater
NS = No standard
RCRA = Resource Conservation and Recovery Act
RSL = Regional screening level
SIM = Selected ion mode
SL-SSL = soil leachate-based SSL
SSL = Soil screening level

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Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3]	NMED Table A-3 NMGW/MCL based SSL [3]	EPA-RSL Calculator Risk-based SSL [4]		
						DAF = 20	DAF = 20	adjusted to DAF = 20		
TAL Metals										
Arsenic	-	SW6020B	7440-38-2	mg/kg	5.60	0.499	5.83	-	5.83	NMED SSL
Barium	-	SW6020B	7440-39-3	mg/kg	482	2700	1650	-	2700	NMED SSL
Beryllium	-	SW6020B	7440-41-7	mg/kg	1.49	196	63.2	-	196	NMED SSL
Cadmium	-	SW6020B	7440-43-9	mg/kg	0.224	9.39	7.52	-	9.39	NMED SSL
Calcium	-	SW6020B	7440-70-2	mg/kg	91,760	NS	NS	NS	NS	
Cobalt	-	SW6020B	7440-48-4	mg/kg	6.82	5.40	NS	-	5.40	NMED SSL
Copper	-	SW6020B	7440-50-8	mg/kg	18.4	556	915	-	915	NMED SSL
Iron	-	SW6020B	7439-89-6	mg/kg	22,660	6960	NS	-	6960	NMED SSL
Lead (6)	-	SW6020B	7439-92-1	mg/kg	12.4	NS	270	-	270	NMED SSL
Magnesium (7)	-	SW6020B	7439-95-4	mg/kg	8,170	NS	NS	NS	NS	
Manganese	-	SW6020B	7439-96-5	mg/kg	1,058	2630	NS	-	2630	NMED SSL
Mercury	-	SW7471B	7439-97-6	mg/kg	0.0300	0.654	2.09	-	2.09	NMED SSL
Nickel	-	SW6020B	7440-02-0	mg/kg	19.5	485	NS	-	485	NMED SSL
Potassium	-	SW6020B	7440-09-7	mg/kg	3,950	NS	NS	NS	NS	
Selenium	-	SW6020B	7782-49-2	mg/kg	0.513	10.2	5.17	-	10.2	NMED SSL
Silver	-	SW6020B	7440-22-4	mg/kg	0.130	13.8	NS	-	13.8	NMED SSL
Sodium	-	SW6020B	7440-23-5	mg/kg	2,526	NS	NS	NS	NS	
Thallium	-	SW6020B	7440-28-0	mg/kg	0.213	0.281	2.85	-	2.85	NMED SSL
Total Chromium	-	SW6020B	7440-47-3	mg/kg	18.1	205000	3600	-	205000	NMED SSL
Vanadium	-	SW6020B	7440-62-2	mg/kg	27.2	1260	NS	-	1260	NMED SSL
Zinc	-	SW6020B	7440-66-6	mg/kg	49.2	7410	NS	-	7410	NMED SSL
Semi-Volatile Organic Compounds										
2,2-Oxybis(1-chloropropane)	-	SW8270E	108-60-1	mg/kg	N/A	0.0475	NS	-	0.0475	NMED SSL
2,4,5-Trichlorophenol	-	SW8270E	95-95-4	mg/kg	N/A	66.2	NS	-	66.2	NMED SSL
2,4,6-Trichlorophenol	-	SW8270E	88-06-2	mg/kg	N/A	0.674	NS	-	0.674	NMED SSL
2,4-Dichlorophenol	-	SW8270E	120-83-2	mg/kg	N/A	0.825	NS	-	0.825	NMED SSL
2,4-Dimethylphenol	-	SW8270E	105-67-9	mg/kg	N/A	6.45	NS	-	6.45	NMED SSL
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	N/A	0.669	NS	-	0.669	NMED SSL
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	N/A	0.0492	NS	-	0.0492	NMED SSL
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	N/A	0.0102	NS	-	0.0102	NMED SSL
2-Chloronaphthalene	-	SW8270E	91-58-7	mg/kg	N/A	57.0	NS	-	57.0	NMED SSL
2-Chlorophenol	-	SW8270E	95-57-8	mg/kg	N/A	1.15	NS	-	1.15	NMED SSL
2-Methylphenol	-	SW8270E	95-48-7	mg/kg	N/A	NS	NS	15.1	15.1	EPA SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3]	NMED Table A-3 NMGW/MCL based SSL [3]	EPA-RSL Calculator Risk-based SSL [4]		
						DAF = 20	DAF = 20	adjusted to DAF = 20		
Semi-Volatile Organic Compounds (Continued)										
2-Nitroaniline	-	SW8270E	88-74-4	mg/kg	N/A	NS	NS	1.60	1.60	EPA SSL
2-Nitrophenol	-	SW8270E	88-75-5	mg/kg	N/A	NS	NS	NS	NS	
3 & 4 Methylphenol	p-cresol	SW8270E	15831-10-4	mg/kg	N/A	NS	NS	5.94	5.94	EPA SSL
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	N/A	0.124	NS	-	0.124	NMED SSL
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	NS	NS	0.316	0.316	EPA SSL
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	N/A	0.0398	NS	-	0.0398	NMED SSL
4-Bromophenyl-phenyl ether	-	SW8270E	101-55-3	mg/kg	N/A	NS	NS	NS	NS	
4-Chloro-3-Methylphenol	-	SW8270E	59-50-7	mg/kg	N/A	NS	NS	34.3	34.3	EPA SSL
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	N/A	NS	NS	0.0311	0.0311	EPA SSL
4-Chlorophenyl-phenyl ether	-	SW8270E	7005-72-3	mg/kg	N/A	NS	NS	NS	NS	
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	N/A	NS	NS	0.316	0.316	EPA SSL
4-Nitrophenol	-	SW8270E	100-02-7	mg/kg	N/A	NS	NS	NS	NS	
Benzaldehyde	-	SW8270E	100-52-7	mg/kg	N/A	NS	NS	0.829	0.829	EPA SSL
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	N/A	NS	NS	0.270	0.270	EPA SSL
Bis(2-Chloroethyl)Ether	Bis(2-Chloroisopropyl)Ether	SW8270E	111-44-4	mg/kg	N/A	0.000605	NS	-	0.000605	NMED SSL
Bis(2-Ethylhexyl)Phthalate	-	SW8270E	117-81-7	mg/kg	N/A	200	21.5	-	200	NMED SSL
Butylbenzylphthalate	-	SW8270E	85-68-7	mg/kg	N/A	NS	NS	47.3	47.3	EPA SSL
Caprolactam	-	SW8270E	105-60-2	mg/kg	N/A	NS	NS	49.4	49.4	EPA SSL
Carbazole	Fluorene	SW8270E	86-74-8	mg/kg	N/A	80.0	NS	-	80.0	NMED SSL
Dibenzofuran	-	SW8270E	132-64-9	mg/kg	N/A	NS	NS	2.91	2.91	EPA SSL
Diethylphthalate	-	SW8270E	84-66-2	mg/kg	N/A	97.9	NS	-	97.9	NMED SSL
Dimethylphthalate	-	SW8270E	131-11-3	mg/kg	N/A	NS	NS	NS	NS	
Di-N-Butylphthalate	-	SW8270E	84-74-2	mg/kg	N/A	33.8	NS	-	33.8	NMED SSL
Di-n-Octylphthalate	-	SW8270E	117-84-0	mg/kg	N/A	NS	NS	1,130	1,130	EPA SSL
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	N/A	0.0185	0.189	-	0.189	NMED SSL
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	N/A	0.0413	NS	-	0.0413	NMED SSL
Hexachlorocyclopentadiene	-	SW8270E	77-47-4	mg/kg	N/A	0.0413	NS	-	0.0413	NMED SSL
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	N/A	0.0320	NS	-	0.0320	NMED SSL
Isophorone	-	SW8270E	78-59-1	mg/kg	N/A	4.23	NS	-	4.23	NMED SSL
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	N/A	0.0144	NS	-	0.0144	NMED SSL
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	N/A	NS	NS	0.00162	0.00162	EPA SSL
N-Nitrosodiphenylamine	-	SW8270E	86-30-6	mg/kg	N/A	10.0	NS	-	10.0	NMED SSL
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	N/A	0.0629	0.152	-	0.152	NMED SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3] DAF = 20	NMED Table A-3 NMGW/MCL based SSL [3] DAF = 20	EPA-RSL Calculator Risk-based SSL [4] adjusted to DAF = 20		
Semi-Volatile Organic Compounds (Continued)										
Phenol	-	SW8270E	108-95-2	mg/kg	N/A	52.3	NS	-	52.3	NMED SSL
Polycyclic Aromatic Hydrocarbons										
2-Methylnaphthalene	-	SW8270E	91-57-6	mg/kg	N/A	2.76	NS	-	2.76	NMED SSL
Acenaphthene	-	SW8270E	83-32-9	mg/kg	N/A	82.5	0.0309	-	82.5	NMED SSL
Acenaphthylene	Pyrene	SW8270E	208-96-8	mg/kg	N/A	192	NS	-	192	NMED SSL
Anthracene	-	SW8270E	120-12-7	mg/kg	N/A	851	NS	-	851	NMED SSL
Benzo(a)anthracene	-	SW8270E	56-55-3	mg/kg	N/A	0.637	NS	-	0.637	NMED SSL
Benzo(a)pyrene	-	SW8270E	50-32-8	mg/kg	N/A	4.42	3.53	-	4.42	NMED SSL
Benzo(b)fluoranthene	-	SW8270E	205-99-2	mg/kg	N/A	6.17	NS	-	6.17	NMED SSL
Benzo(k)fluoranthene	-	SW8270E	207-08-9	mg/kg	N/A	60.5	NS	-	60.5	NMED SSL
Benzo(g,h,i)perylene	Pyrene	SW8270E	191-24-2	mg/kg	N/A	192	NS	-	192	NMED SSL
Chrysene	-	SW8270E	218-01-9	mg/kg	N/A	186	NS	-	186	NMED SSL
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	N/A	1.97	NS	-	1.97	NMED SSL
Fluoranthene	-	SW8270E	206-44-0	mg/kg	N/A	1340	NS	-	1340	NMED SSL
Fluorene	-	SW8270E	86-73-7	mg/kg	N/A	80.0	NS	-	80.0	NMED SSL
Indeno(1,2,3-cd)pyrene	-	SW8270E	193-39-5	mg/kg	N/A	20.1	NS	-	20.1	NMED SSL
Naphthalene	-	SW8270E	91-20-3	mg/kg	N/A	0.0583	NS	-	0.0583	NMED SSL
Phenanthrene	-	SW8270E	85-01-8	mg/kg	N/A	85.9	NS	-	85.9	NMED SSL
Pyrene	-	SW8270E	129-00-0	mg/kg	N/A	192	NS	-	192	NMED SSL
1-Methylnaphthalene	-	SW8270E SIM	90-12-0	mg/kg	N/A	0.893	NS	-	0.893	NMED SSL
2-Methylnaphthalene	-	SW8270E SIM	91-57-6	mg/kg	N/A	2.76	NS	-	2.76	NMED SSL
Acenaphthene	-	SW8270E SIM	83-32-9	mg/kg	N/A	82.5	0.0309	-	82.5	NMED SSL
Acenaphthylene	Pyrene	SW8270E SIM	208-96-8	mg/kg	N/A	192	NS	-	192	NMED SSL
Anthracene	-	SW8270E SIM	120-12-7	mg/kg	N/A	851	NS	-	851	NMED SSL
Benzo(a)anthracene	-	SW8270E SIM	56-55-3	mg/kg	N/A	0.637	NS	-	0.637	NMED SSL
Benzo(a)pyrene	-	SW8270E SIM	50-32-8	mg/kg	N/A	4.42	3.53	-	4.42	NMED SSL
Benzo(b)fluoranthene	-	SW8270E SIM	205-99-2	mg/kg	N/A	6.17	NS	-	6.17	NMED SSL
Benzo(k)fluoranthene	-	SW8270E SIM	207-08-9	mg/kg	N/A	60.5	NS	-	60.5	NMED SSL
Benzo(g,h,i)perylene	Pyrene	SW8270E SIM	191-24-2	mg/kg	N/A	192	NS	-	192	NMED SSL
Chrysene	-	SW8270E SIM	218-01-9	mg/kg	N/A	186	NS	-	186	NMED SSL
Dibenz(a,h)anthracene	-	SW8270E SIM	53-70-3	mg/kg	N/A	1.97	NS	-	1.97	NMED SSL
Fluoranthene	-	SW8270E SIM	206-44-0	mg/kg	N/A	1340	NS	-	1340	NMED SSL
Fluorene	-	SW8270E SIM	86-73-7	mg/kg	N/A	80.0	NS	-	80.0	NMED SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3] DAF = 20	NMED Table A-3 NMGW/MCL based SSL [3] DAF = 20	EPA-RSL Calculator Risk-based SSL [4] adjusted to DAF = 20		
Polycyclic Aromatic Hydrocarbons (Continued)										
Indeno(1,2,3-cd)pyrene	-	SW8270E SIM	193-39-5	mg/kg	N/A	20.1	NS	-	20.1	NMED SSL
Naphthalene	-	SW8270E SIM	91-20-3	mg/kg	N/A	0.0583	NS	-	0.0583	NMED SSL
Phenanthrene	-	SW8270E SIM	85-01-8	mg/kg	N/A	85.9	NS	-	85.9	NMED SSL
Pyrene	-	SW8270E SIM	129-00-0	mg/kg	N/A	192	NS	-	192	NMED SSL
Volatile Organic Compounds										
1,1,1,2-Tetrachloroethane	-	SW8260D	630-20-6	mg/kg	N/A	0.0360	NS	-	0.0360	NMED SSL
1,1,1-Trichloroethane	-	SW8260D	71-55-6	mg/kg	N/A	51.1	1.28	-	51.1	NMED SSL
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	N/A	0.00481	NS	-	0.00481	NMED SSL
1,1,2-Trichloroethane	-	SW8260D	79-00-5	mg/kg	N/A	0.00223	0.0268	-	0.0268	NMED SSL
1,1-Dichloroethane	-	SW8260D	75-34-3	mg/kg	N/A	0.136	NS	-	0.136	NMED SSL
1,1-Dichloroethene	-	SW8260D	75-35-4	mg/kg	N/A	1.95	0.0479	-	1.95	NMED SSL
1,1-Dichloropropene	1,3-Dichloropropene	SW8260D	563-58-6	mg/kg	N/A	0.0281	NS	-	0.0281	NMED SSL
1,2,3-Trichlorobenzene	-	SW8260D	87-61-6	mg/kg	N/A	NS	NS	0.418	0.418	EPA SSL
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	N/A	0.0000582	NS	-	0.0000582	NMED SSL
1,2,4-Trichlorobenzene	-	SW8260D	120-82-1	mg/kg	N/A	0.176	3.10	-	3.10	NMED SSL
1,2,4-Trimethylbenzene	-	SW8260D	95-63-6	mg/kg	N/A	NS	NS	1.62	1.62	EPA SSL
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	N/A	0.0000233	0.00139	-	0.00139	NMED SSL
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	N/A	0.000352	0.000236	-	0.000352	NMED SSL
1,2-Dichlorobenzene	-	SW8260D	95-50-1	mg/kg	N/A	4.58	9.08	-	9.08	NMED SSL
1,2-Dichloroethane	-	SW8260D	107-06-2	mg/kg	N/A	0.00814	0.0238	-	0.0238	NMED SSL
1,2-Dichloropropane	-	SW8260D	78-87-5	mg/kg	N/A	0.0243	0.0277	-	0.0277	NMED SSL
1,3,5-Trimethylbenzene	-	SW8260D	108-67-8	mg/kg	N/A	NS	NS	1.73	1.73	EPA SSL
1,3-Dichloropropane	-	SW8260D	142-28-9	mg/kg	N/A	NS	NS	2.57	2.57	EPA SSL
1,3-Dichlorobenzene	1,4-Dichlorobenzene	SW8260D	541-73-1	mg/kg	N/A	0.0720	1.12	-	1.12	NMED SSL
1,4-Dichlorobenzene	-	SW8260D	106-46-7	mg/kg	N/A	0.0720	1.12	-	1.12	NMED SSL
2,2-Dichloropropane	1,2-Dichloropropane	SW8260D	594-20-7	mg/kg	N/A	0.0243	0.0277	-	0.0277	NMED SSL
2-Butanone (MEK)	-	SW8260D	78-93-3	mg/kg	N/A	20.1	NS	-	20.1	NMED SSL
2-Chlorotoluene	-	SW8260D	95-49-8	mg/kg	N/A	3.56	NS	-	3.56	NMED SSL
2-Hexanone	-	SW8260D	591-78-6	mg/kg	N/A	NS	NS	0.175	0.175	EPA SSL
4-Chlorotoluene	-	SW8260D	106-43-4	mg/kg	N/A	NS	NS	4.83	4.83	EPA SSL
4-Methyl-2-Pentanone (MIBK)	-	SW8260D	108-10-1	mg/kg	N/A	4.80	NS	-	4.80	NMED SSL
Acetone	-	SW8260D	67-64-1	mg/kg	N/A	49.8	NS	-	49.8	NMED SSL
Benzene	-	SW8260D	71-43-2	mg/kg	N/A	0.0380	0.0418	-	0.0418	NMED SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3]	NMED Table A-3 NMGW/MCL based SSL [3]	EPA-RSL Calculator Risk-based SSL [4]		
						DAF = 20	DAF = 20	adjusted to DAF = 20		
Volatile Organic Compounds (Continued)										
Bromobenzene	-	SW8260D	108-86-1	mg/kg	N/A	NS	NS	0.842	0.842	EPA SSL
Bromochloromethane	-	SW8260D	74-97-5	mg/kg	N/A	NS	NS	0.415	0.415	EPA SSL
Bromodichloromethane	-	SW8260D	75-27-4	mg/kg	N/A	0.00621	NS	-	0.00621	NMED SSL
Bromoform	-	SW8260D	75-25-2	mg/kg	N/A	0.147	NS	-	0.147	NMED SSL
Bromomethane	-	SW8260D	74-83-9	mg/kg	N/A	0.0343	NS	-	0.0343	NMED SSL
Carbon Disulfide	-	SW8260D	75-15-0	mg/kg	N/A	4.42	NS	-	4.42	NMED SSL
Carbon Tetrachloride	-	SW8260D	56-23-5	mg/kg	N/A	0.0334	0.0367	-	0.0367	NMED SSL
Chlorobenzene	-	SW8260D	108-90-7	mg/kg	N/A	0.836	1.08	-	1.08	NMED SSL
Chloroethane	-	SW8260D	75-00-3	mg/kg	N/A	107	NS	-	107	NMED SSL
Chloroform	-	SW8260D	67-66-3	mg/kg	N/A	0.0109	NS	-	0.0109	NMED SSL
Chloromethane	-	SW8260D	74-87-3	mg/kg	N/A	0.0952	NS	-	0.0952	NMED SSL
cis-1,2-Dichloroethene	-	SW8260D	156-59-2	mg/kg	N/A	0.184	0.352	-	0.352	NMED SSL
cis-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	N/A	0.0281	NS	-	0.0281	NMED SSL
Dibromochloromethane	-	SW8260D	124-48-1	mg/kg	N/A	0.00755	NS	-	0.00755	NMED SSL
Dibromomethane	-	SW8260D	74-95-3	mg/kg	N/A	0.0335	NS	-	0.0335	NMED SSL
Dichlorodifluoromethane	-	SW8260D	75-71-8	mg/kg	N/A	7.23	NS	-	7.23	NMED SSL
Ethylbenzene	-	SW8260D	100-41-4	mg/kg	N/A	0.264	12.3	-	12.3	NMED SSL
Hexachlorobutadiene	-	SW8260D	87-68-3	mg/kg	N/A	0.0413	NS	-	0.0413	NMED SSL
Isopropylbenzene	-	SW8260D	98-82-8	mg/kg	N/A	11.4	NS	-	11.4	NMED SSL
Methyl acetate	-	SW8260D	79-20-9	mg/kg	N/A	71.1	NS	-	71.1	NMED SSL
m,p-Xylenes	Xylenes	SW8260D	179601-23-1	mg/kg	N/A	2.98	154	-	154	NMED SSL
Methyl Tert-Butyl Ether	-	SW8260D	1634-04-4	mg/kg	N/A	0.553	NS	-	0.553	NMED SSL
Methylene Chloride	-	SW8260D	75-09-2	mg/kg	N/A	0.471	0.0221	-	0.471	NMED SSL
Naphthalene	-	SW8260D	91-20-3	mg/kg	N/A	0.0583	NS	-	0.0583	NMED SSL
n-Butylbenzene	-	SW8260D	104-51-8	mg/kg	N/A	NS	NS	64.6	64.6	EPA SSL
n-Propylbenzene	-	SW8260D	103-65-1	mg/kg	N/A	NS	NS	24.5	24.5	EPA SSL
o-Xylene	-	SW8260D	95-47-6	mg/kg	N/A	2.98	NS	-	2.98	NMED SSL
4-Isopropyltoluene	Isopropylbenzene	SW8260D	99-87-6	mg/kg	N/A	11.4	NS	-	11.4	NMED SSL
Sec-Butylbenzene	-	SW8260D	135-98-8	mg/kg	N/A	NS	NS	117	117	EPA SSL
Styrene	-	SW8260D	100-42-5	mg/kg	N/A	20.6	1.71	-	20.6	NMED SSL
Tert-Butylbenzene	-	SW8260D	98-06-6	mg/kg	N/A	NS	NS	31.1	31.1	EPA SSL
Tetrachloroethene	-	SW8260D	127-18-4	mg/kg	N/A	0.321	0.0398	-	0.321	NMED SSL
Toluene	-	SW8260D	108-88-3	mg/kg	N/A	12.1	11.1	-	12.1	NMED SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3]	NMED Table A-3 NMGW/MCL based SSL [3]	EPA-RSL Calculator Risk-based SSL [4]		
						DAF = 20	DAF = 20	adjusted to DAF = 20		
Volatile Organic Compounds (Continued)										
Trans-1,2-Dichloroethene	-	SW8260D	156-60-5	mg/kg	N/A	0.342	0.503	-	0.503	NMED SSL
Trans-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	N/A	0.0281	NS	-	0.0281	NMED SSL
Trichloroethene	-	SW8260D	79-01-6	mg/kg	N/A	0.0161	0.0310	-	0.0310	NMED SSL
Trichlorofluoromethane	-	SW8260D	75-69-4	mg/kg	N/A	15.7	NS	-	15.7	NMED SSL
Vinyl Chloride	-	SW8260D	75-01-4	mg/kg	N/A	0.00217	0.0134	-	0.0134	NMED SSL
Explosives										
1,3,5-Trinitrobenzene	-	SW8330B	99-35-4	mg/kg	N/A	NS	NS	42.4	42.4	EPA SSL
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	N/A	NS	NS	0.0353	0.0353	EPA SSL
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	N/A	0.0492	NS	-	0.0492	NMED SSL
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	N/A	0.0102	NS	-	0.0102	NMED SSL
2,4,6-Trinitrotoluene (TNT)	-	SW8330B	118-96-7	mg/kg	N/A	0.861	NS	-	0.861	NMED SSL
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	N/A	0.0230	NS	-	0.0230	NMED SSL
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	N/A	0.0458	NS	-	0.0458	NMED SSL
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	N/A	0.0250	NS	-	0.0250	NMED SSL
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	N/A	0.0230	NS	-	0.0230	NMED SSL
4-Nitrotoluene	-	SW8330B	99-99-0	mg/kg	N/A	0.613	NS	-	0.613	NMED SSL
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	N/A	0.0593	NS	-	0.0593	NMED SSL
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	-	SW8330B	479-45-8	mg/kg	N/A	5.59	NS	-	5.59	NMED SSL
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	N/A	0.0144	NS	-	0.0144	NMED SSL
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	N/A	0.0136	NS	-	0.0136	NMED SSL
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HM	-	SW8330B	2691-41-0	mg/kg	N/A	19.4	NS	-	19.4	NMED SSL
Pentaerythritol Tetranitrate (PETN)	-	SW8330B	78-11-5	mg/kg	N/A	NS	NS	5.18	5.18	EPA SSL
Total Petroleum Hydrocarbons										
GRO (C6-C10)	-	SW8015D	8006-61-1	mg/kg	N/A	4.94	NS	-	4.94	NMED SSL
DRO (C10-C-28)	-	SW8015D	68334-30-5	mg/kg	N/A	13.2	NS	-	13.2	NMED SSL
DRO Extended (C10-C36)	-	SW8015D	68334-30-5	mg/kg	N/A	13.2	NS	-	13.2	NMED SSL
PCBs										
Aroclor 1016	-	SW8082A	12674-11-2	mg/kg	N/A	2.01	0.717	-	2.01	NMED SSL
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	N/A	0.0143	NS	-	0.0143	NMED SSL
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	N/A	0.0143	NS	-	0.0143	NMED SSL
Aroclor 1242	-	SW8082A	53469-21-9	mg/kg	N/A	0.184	NS	-	0.184	NMED SSL
Aroclor 1248	-	SW8082A	12672-29-6	mg/kg	N/A	0.181	NS	-	0.181	NMED SSL
Aroclor 1254	-	SW8082A	11097-69-1	mg/kg	N/A	0.308	NS	-	0.308	NMED SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3] DAF = 20	NMED Table A-3 NMGW/MCL based SSL [3] DAF = 20	EPA-RSL Calculator Risk-based SSL [4] adjusted to DAF = 20		
PCBs (Continued)										
Aroclor 1260	-	SW8082A	11096-82-5	mg/kg	N/A	0.825	NS	-	0.825	NMED SSL
Aroclor 1262	-	SW8082A	37324-23-5	mg/kg	N/A	NS	NS	NS	NS	
Aroclor 1268	-	SW8082A	11100-14-4	mg/kg	N/A	NS	NS	NS	NS	
Chlorinated Pesticides										
alpha-BHC	-	SW8081B	319-84-6	mg/kg	N/A	0.00608	NS	-	0.00608	NMED SSL
beta-BHC	-	SW8081B	319-85-7	mg/kg	N/A	0.0213	NS	-	0.0213	NMED SSL
delta-BHC	beta-BHC	SW8081B	319-86-8	mg/kg	N/A	0.0213	NS	-	0.0213	NMED SSL
gamma-BHC (Lindane)	-	SW8081B	58-89-9	mg/kg	N/A	0.0364	NS	-	0.0364	NMED SSL
Heptachlor	-	SW8081B	76-44-8	mg/kg	N/A	0.0275	0.497	-	0.497	NMED SSL
Aldrin	-	SW8081B	309-00-2	mg/kg	N/A	0.00488	NS	-	0.00488	NMED SSL
Heptachlor Epoxide	-	SW8081B	1024-57-3	mg/kg	N/A	NS	NS	0.00567	0.00567	EPA SSL
Endosulfan I	Endosulfan	SW8081B	959-98-8	mg/kg	N/A	20.4	NS	-	20.4	NMED SSL
Endosulfan II	Endosulfan	SW8081B	33213-65-9	mg/kg	N/A	20.4	NS	-	20.4	NMED SSL
Dieldrin	-	SW8081B	60-57-1	mg/kg	N/A	0.0106	NS	-	0.0106	NMED SSL
4,4'-DDD	-	SW8081B	72-54-8	mg/kg	N/A	1.12	NS	-	1.12	NMED SSL
4,4'-DDE	-	SW8081B	72-55-9	mg/kg	N/A	1.63	NS	-	1.63	NMED SSL
4,4'-DDT	-	SW8081B	50-29-3	mg/kg	N/A	11.6	NS	-	11.6	NMED SSL
Endrin	-	SW8081B	72-20-8	mg/kg	N/A	1.35	1.21	-	1.35	NMED SSL
Endrin Ketone		SW8081B	53494-70-5	mg/kg	N/A	NS	NS	NS	NS	
Endosulfan sulfate	Endosulfan	SW8081B	1031-07-8	mg/kg	N/A	20.4	NS	-	20.4	NMED SSL
Methoxychlor	-	SW8081B	72-43-5	mg/kg	N/A	NS	NS	40.0	40.0	EPA SSL
Chlorinated Pesticides (Continued)										
Endrin aldehyde	Endrin	SW8081B	7421-93-4	mg/kg	N/A	1.35	1.21	-	1.35	NMED SSL
alpha-Chlordane	Chlordane	SW8081B	5103-71-9	mg/kg	N/A	0.456	2.03	-	2.03	NMED SSL
gamma-Chlordane	Chlordane	SW8081B	5103-74-2	mg/kg	N/A	0.456	2.03	-	2.03	NMED SSL
Toxaphene		SW8081B	8001-35-2	mg/kg	N/A	0.366	6.96	-	6.96	NMED SSL
Herbicides										
2,4-D	-	SW8321B	94-75-7	mg/kg	N/A	NS	NS	0.906	0.906	EPA SSL
2,4-DB	-	SW8321B	94-82-6	mg/kg	N/A	NS	NS	NS	NS	
2,4,5-T	-	SW8321B	93-76-5	mg/kg	N/A	NS	NS	1.35	1.35	EPA SSL
2,4,5-TP (Silvex)	-	SW8321B	93-72-1	mg/kg	N/A	NS	NS	1.22	1.22	EPA SSL
Dicamba	-	SW8321B	1918-00-9	mg/kg	N/A	NS	NS	2.93	2.93	EPA SSL
Dichloroprop	-	SW8321B	120-36-5	mg/kg	N/A	NS	NS	NS	NS	
Dinoseb	-	SW8321B	88-85-7	mg/kg	N/A	NS	NS	2.57	2.57	EPA SSL

Table 6.5 – Human Health Soil to Groundwater Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Human Health Screening Levels - Groundwater Protection			Selected Human Health Screening Level - Groundwater Protection [5]	Selected Human Health Screening Level - Groundwater Protection Source [5]
						NMED Table A-3 and Table 6-4 Risk-based SSL [3] DAF = 20	NMED Table A-3 NMGW/MCL based SSL [3] DAF = 20	EPA-RSL Calculator Risk-based SSL [4] adjusted to DAF = 20		
Herbicides (Continued)										
DCAA	-	SW8321B	19719-28-9	mg/kg	N/A	NS	NS	NS	NS	
MCPA	-	SW8321B	94-74-6	mg/kg	N/A	NS	NS	0.0391	0.0391	EPA SSL
MCPP	-	SW8321B	93-65-2	mg/kg	N/A	NS	NS	0.0930	0.0930	EPA SSL
Dioxins/Furans										
2,3,7,8-TCDD	-	SW8290	1746-01-6	mg/kg	N/A	0.00000886	0.000224	-	0.000224	NMED SSL

Notes:

1. Analytical Method - EPA Test Methods for Evaluating Solid Waste latest edition (the most current version of each method the laboratory is accredited to will be used).
2. Selected FWDA background values are presented in Table 8-1 from *Soil Background Study and Data Evaluation Report* (Shaw, 2010), except arsenic and antimony:
   - The arsenic background reference value is 5.6 mg/kg per Evaluation of Background Levels for Arsenic in Soil (NMED, 2013b). If the maximum arsenic concentration is greater than 5.6 mg/kg, then the range of arsenic concentrations in the sample data set is to be compared to the range of arsenic concentrations in the site-specific background data set (0.2 mg/kg to 11.2 mg/kg).
   - The antimony background level of 0.23 mg/kg is from soil unit 350ss as presented in Table 4-1 of the *Phase 2 Soil Background Report* (USACE, 2013).
3. NMED *Risk Assessment Guidance for Site Investigations and Remediation* , November 2022 Revised (Appendix A, Table A-3, risk-based SSL and NMGW/MCL-based SSL, and Table 6-4 for petroleum hydrocarbon mixtures; DAF=20).
4. USEPA RSL Calculator (TR=1E-05, HQ=1), May 2024 (protection of groundwater risk-based SSL). All analytes are adjusted to a DAF of 20.
5. The selected screening level for protection of groundwater is the highest value between the NMED risk-based SSL and NMED NMGW/MCL-based SSL based on a DAF of 20 (listed in Table A-1, per Section 4.9 of NMED, 2022). For analytes without NMED values, the USEPA protection of groundwater risk-based SSL was selected (USEPA RSL Calculator [TR=1E-05, HQ=1], May 2024, adjusted to a DAF of 20).
6. Lead human health screening levels appear in the non-cancer column, but the health effects of lead are not correlated with the typical carcinogenic or non-carcinogenic dose-based toxicity values that characterize other chemicals. Instead, the screening level for lead is based on a modeled concentration in soil that results in an acceptable blood lead level protective of adverse developmental health effects (USEPA, 2024).

Acronyms and Abbreviations:

CASRN = Chemical Abstracts Service Registry Number
DAF = Dilution attenuation factor
DRO = Diesel-range organics
EPA = United States Environmental Protection Agency
FWDA = Fort Wingate Depot Activity
HQ = Hazard quotient
MCL = Maximum contaminant level
mg/kg = Milligram per kilogram
N/A = Not applicable
NMED = New Mexico Environment Department
NMGW = New Mexico groundwater
NS = No standard
RCRA = Resource Conservation and Recovery Act
RSL = Regional screening level
SIM = Selected ion mode
SL-SSL = soil leachate-based SSL
SSL = Soil screening level

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
TAL Metals								
Aluminum	SW6020B	7429-90-5	mg/kg	23,340	NS	564	520	23,340
Antimony	SW6020B	7440-36-0	mg/kg	2.20	11.4	0.536	NS	2.20
Arsenic	SW6020B	7440-38-2	mg/kg	5.60	18.0	9.45	10.6	9.45
Barium	SW6020B	7440-39-3	mg/kg	482	118	471	348	482
Beryllium	SW6020B	7440-41-7	mg/kg	1.49	2.50	4.84	NS	2.50
Cadmium	SW6020B	7440-43-9	mg/kg	0.224	32.0	7.00	6.95	6.95
Calcium	SW6020B	7440-70-2	mg/kg	91,760	NS	NS	NS	91,760
Cobalt	SW6020B	7440-48-4	mg/kg	6.82	13.0	66.6	36.0	13.0
Copper	SW6020B	7440-50-8	mg/kg	18.4	70.0	50.9	19.2	19.2
Iron	SW6020B	7439-89-6	mg/kg	22,660	NS	NS	NS	22,660
Lead	SW6020B	7439-92-1	mg/kg	12.4	120	42.7	7.71	12.4
Magnesium	SW6020B	7439-95-4	mg/kg	8,170	NS	NS	NS	8,170
Manganese	SW7471B	7439-96-5	mg/kg	1,058	220	468	847	1,058
Mercury	SW6020B	7439-97-6	mg/kg	0.0300	34.9	12.8	0.0899	0.0899
Nickel	SW6020B	7440-02-0	mg/kg	19.5	38.0	15.5	31.7	19.5
Potassium	SW6020B	7440-09-7	mg/kg	3,950	NS	NS	NS	3,950
Selenium	SW6020B	7782-49-2	mg/kg	0.513	0.520	1.30	1.37	0.520
Silver	SW6020B	7440-22-4	mg/kg	0.130	560	54.7	10.4	10.40
Sodium	SW6020B	7440-23-5	mg/kg	2,526	NS	NS	NS	2,526
Thallium	SW6020B	7440-28-0	mg/kg	0.213	0.0500	0.0645	1.66	0.213
Total Chromium	SW6020B	7440-47-3	mg/kg	18.1	NS	21.8	12.6	18.1
Semi-Volatile Organic Compounds								
2,2-Oxybis(1-chloropropane)	SW8270E	108-60-1	mg/kg	N/A	NS	NS	NS	NS
2,4,5-Trichlorophenol	SW8270E	95-95-4	mg/kg	N/A	NS	NS	NS	NS
2,4,6-Trichlorophenol	SW8270E	88-06-2	mg/kg	N/A	NS	NS	NS	NS

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Semi-Volatile Organic Compounds (Continued)								
2,4-Dichlorophenol	SW8270E	120-83-2	mg/kg	N/A	NS	NS	NS	NS
2,4-Dimethylphenol	SW8270E	105-67-9	mg/kg	N/A	NS	NS	NS	NS
2,4-Dinitrophenol	SW8270E	51-28-5	mg/kg	N/A	NS	NS	NS	NS
2,4-Dinitrotoluene	SW8270E	121-14-2	mg/kg	N/A	6.00	24.4	NS	6.00
2,6-Dinitrotoluene	SW8270E	606-20-2	mg/kg	N/A	NS	16.1	284	16.1
2-Chloronaphthalene	SW8270E	91-58-7	mg/kg	N/A	NS	NS	NS	NS
2-Chlorophenol	SW8270E	95-57-8	mg/kg	N/A	NS	4.55	5.34	4.55
2-Methylphenol	SW8270E	95-48-7	mg/kg	N/A	0.670	2,000	NS	0.670
2-Nitroaniline	SW8270E	88-74-4	mg/kg	N/A	NS	27.3	NS	27.3
2-Nitrophenol	SW8270E	88-75-5	mg/kg	N/A	NS	NS	NS	NS
3 & 4 Methylphenol	SW8270E	15831-10-4	mg/kg	N/A	0.690	NS	NS	0.690
3,3'-Dichlorobenzidine	SW8270E	91-94-1	mg/kg	N/A	NS	NS	NS	NS
3-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	NS	NS	NS	NS
4,6-Dinitro-2-Methylphenol	SW8270E	534-52-1	mg/kg	N/A	NS	NS	NS	NS
4-Bromophenyl-phenyl ether	SW8270E	101-55-3	mg/kg	N/A	NS	NS	NS	NS
4-Chloro-3-Methylphenol	SW8270E	59-50-7	mg/kg	N/A	NS	NS	NS	NS
4-Chloroaniline	SW8270E	106-47-8	mg/kg	N/A	NS	NS	NS	NS
4-Chlorophenyl-phenyl ether	SW8270E	7005-72-3	mg/kg	N/A	NS	NS	NS	NS
4-Nitroaniline	SW8270E	100-01-6	mg/kg	N/A	NS	NS	NS	NS
4-Nitrophenol	SW8270E	100-02-7	mg/kg	N/A	NS	NS	NS	NS
Benzaldehyde	SW8270E	100-52-7	mg/kg	N/A	NS	NS	NS	NS
Bis(2-Chloroethoxy)Methane	SW8270E	111-91-1	mg/kg	N/A	NS	NS	NS	NS
Bis(2-Chloroethyl)Ether	SW8270E	111-44-4	mg/kg	N/A	NS	NS	NS	NS
Bis(2-Ethylhexyl)Phthalate	SW8270E	117-81-7	mg/kg	N/A	NS	166	5.20	5.20
Butylbenzylphthalate	SW8270E	85-68-7	mg/kg	N/A	NS	1,450	NS	1,450

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Semi-Volatile Organic Compounds (Continued)								
Caprolactam	SW8270E	105-60-2	mg/kg	N/A	NS	NS	NS	NS
Carbazole	SW8270E	86-74-8	mg/kg	N/A	NS	207	NS	207
Dibenzofuran	SW8270E	132-64-9	mg/kg	N/A	6.17	NS	NS	6.17
Diethylphthalate	SW8270E	84-66-2	mg/kg	N/A	100	41,800	NS	100
Dimethylphthalate	SW8270E	131-11-3	mg/kg	N/A	NS	618	NS	618
Di-N-Butylphthalate	SW8270E	84-74-2	mg/kg	N/A	167	12,200	0.662	0.662
Di-n-Octylphthalate	SW8270E	117-84-0	mg/kg	N/A	NS	592	NS	592
Hexachlorobenzene	SW8270E	118-74-1	mg/kg	N/A	10.0	64.5	23.7	10.0
Hexachlorobutadiene	SW8270E	87-68-3	mg/kg	N/A	NS	NS	NS	NS
Hexachlorocyclopentadiene	SW8270E	77-47-4	mg/kg	N/A	NS	NS	NS	NS
Hexachloroethane	SW8270E	67-72-1	mg/kg	N/A	NS	NS	NS	NS
Isophorone	SW8270E	78-59-1	mg/kg	N/A	NS	NS	NS	NS
Nitrobenzene	SW8270E	98-95-3	mg/kg	N/A	NS	53.6	NS	53.6
N-Nitroso-Di-N-Propylamine	SW8270E	621-64-7	mg/kg	N/A	NS	NS	NS	NS
N-Nitrosodiphenylamine	SW8270E	86-30-6	mg/kg	N/A	NS	NS	NS	NS
Pentachlorophenol	SW8270E	87-86-5	mg/kg	N/A	5.00	76.5	31.8	5.00
Phenol	SW8270E	108-95-2	mg/kg	N/A	0.790	545	NS	0.790
2-Methylnaphthalene	SW8270E	91-57-6	mg/kg	N/A	NS	NS	NS	NS
Acenaphthene	SW8270E	83-32-9	mg/kg	N/A	0.250	636	NS	0.250
Acenaphthylene	SW8270E	208-96-8	mg/kg	N/A	NS	636	NS	636
Anthracene	SW8270E	120-12-7	mg/kg	N/A	6.88	909	NS	6.88
Benzo(a)anthracene	SW8270E	56-55-3	mg/kg	N/A	18.0	1.55	0.506	0.506
Benzo(a)pyrene	SW8270E	50-32-8	mg/kg	N/A	NS	50.7	NS	50.7
Benzo(b)fluoranthene	SW8270E	205-99-2	mg/kg	N/A	18.0	36.4	NS	18.0
Benzo(k)fluoranthene	SW8270E	207-08-9	mg/kg	N/A	NS	65.4	NS	65.4

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Semi-Volatile Organic Compounds (Continued)								
Benzo(g,h,i)perylene	SW8270E	191-24-2	mg/kg	N/A	NS	65.4	NS	65.4
Chrysene	SW8270E	218-01-9	mg/kg	N/A	NS	1.55	NS	1.55
Dibenz(a,h)anthracene	SW8270E	53-70-3	mg/kg	N/A	NS	12.1	NS	12.1
Fluoranthene	SW8270E	206-44-0	mg/kg	N/A	NS	114	NS	114
Fluorene	SW8270E	86-73-7	mg/kg	N/A	NS	1,140	NS	1,140
Indeno(1,2,3-cd)pyrene	SW8270E	193-39-5	mg/kg	N/A	NS	65.4	NS	65.4
Naphthalene	SW8270E	91-20-3	mg/kg	N/A	1.00	130	71.0	1.00
Phenanthrene	SW8270E	85-01-8	mg/kg	N/A	NS	46.7	NS	46.7
Pyrene	SW8270E	129-00-0	mg/kg	N/A	NS	68.2	97.0	68.2
Polycyclic Aromatic Hydrocarbons								
1-Methylnaphthalene	SW8270E SIM	90-12-0	mg/kg	N/A	NS	NS	NS	NS
2-Methylnaphthalene	SW8270E SIM	91-57-6	mg/kg	N/A	NS	NS	NS	NS
Acenaphthene	SW8270E SIM	83-32-9	mg/kg	N/A	0.250	636	NS	0.250
Acenaphthylene	SW8270E SIM	208-96-8	mg/kg	N/A	NS	636	NS	636
Anthracene	SW8270E SIM	120-12-7	mg/kg	N/A	6.88	909	NS	6.88
Benzo(a)anthracene	SW8270E SIM	56-55-3	mg/kg	N/A	18.0	1.55	0.506	0.506
Benzo(a)pyrene	SW8270E SIM	50-32-8	mg/kg	N/A	NS	50.7	NS	50.7
Benzo(b)fluoranthene	SW8270E SIM	205-99-2	mg/kg	N/A	18.0	36.4	NS	18.0
Benzo(k)fluoranthene	SW8270E SIM	207-08-9	mg/kg	N/A	NS	65.4	NS	65.4
Benzo(g,h,i)perylene	SW8270E SIM	191-24-2	mg/kg	N/A	NS	65.4	NS	65.4
Chrysene	SW8270E SIM	218-01-9	mg/kg	N/A	NS	1.55	NS	1.55
Dibenz(a,h)anthracene	SW8270E SIM	53-70-3	mg/kg	N/A	NS	12.1	NS	12.1
Fluoranthene	SW8270E SIM	206-44-0	mg/kg	N/A	NS	114	NS	114
Fluorene	SW8270E SIM	86-73-7	mg/kg	N/A	NS	1,140	NS	1,140
Indeno(1,2,3-cd)pyrene	SW8270E SIM	193-39-5	mg/kg	N/A	NS	65.4	NS	65.4
Naphthalene	SW8270E SIM	91-20-3	mg/kg	N/A	1.00	130	71.0	1.00

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Polycyclic Aromatic Hydrocarbons (Continued)								
Phenanthrene	SW8270E SIM	85-01-8	mg/kg	N/A	NS	46.7	NS	46.7
Pyrene	SW8270E SIM	129-00-0	mg/kg	N/A	NS	68.2	97.0	68.2
Volatile Organic Compounds								
1,1,1,2-Tetrachloroethane	SW8260D	630-20-6	mg/kg	N/A	NS	NS	NS	NS
1,1,1-Trichloroethane	SW8260D	71-55-6	mg/kg	N/A	NS	9,080	NS	9,080
1,1,2,2-Tetrachloroethane	SW8260D	79-34-5	mg/kg	N/A	NS	403	NS	403
1,1,2-Trichloroethane	SW8260D	79-00-5	mg/kg	N/A	NS	35.5	NS	35.5
1,1-Dichloroethane	SW8260D	75-34-3	mg/kg	N/A	NS	3,470	NS	3,470
1,1-Dichloroethene	SW8260D	75-35-4	mg/kg	N/A	NS	273	NS	273
1,1-Dichloropropene	SW8260D	563-58-6	mg/kg	N/A	NS	NS	NS	NS
1,2,3-Trichlorobenzene	SW8260D	87-61-6	mg/kg	N/A	NS	NS	NS	NS
1,2,3-Trichloropropane	SW8260D	96-18-4	mg/kg	N/A	NS	NS	NS	NS
1,2,4-Trichlorobenzene	SW8260D	120-82-1	mg/kg	N/A	NS	13.5	NS	13.5
1,2,4-Trimethylbenzene	SW8260D	95-63-6	mg/kg	N/A	NS	NS	NS	NS
1,2-Dibromo-3-Chloropropane	SW8260D	96-12-8	mg/kg	N/A	NS	NS	NS	NS
1,2-Dibromoethane	SW8260D	106-93-4	mg/kg	N/A	NS	NS	NS	NS
1,2-Dichlorobenzene	SW8260D	95-50-1	mg/kg	N/A	NS	22.7	NS	22.7
1,2-Dichloroethane	SW8260D	107-06-2	mg/kg	N/A	NS	452	21.8	21.8
1,2-Dichloropropane	SW8260D	78-87-5	mg/kg	N/A	NS	NS	NS	NS
1,3,5-Trimethylbenzene	SW8260D	108-67-8	mg/kg	N/A	NS	NS	NS	NS
1,3-Dichloropropane	SW8260D	142-28-9	mg/kg	N/A	NS	NS	NS	NS
1,3-Dichlorobenzene	SW8260D	541-73-1	mg/kg	N/A	NS	22.7	NS	22.7
1,4-Dichlorobenzene	SW8260D	106-46-7	mg/kg	N/A	NS	22.7	NS	22.7
2,2-Dichloropropane	SW8260D	594-20-7	mg/kg	N/A	NS	NS	NS	NS
2-Butanone (MEK)	SW8260D	78-93-3	mg/kg	N/A	NS	16,100	NS	16,100
2-Chlorotoluene	SW8260D	95-49-8	mg/kg	N/A	NS	NS	NS	NS

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Volatile Organic Compounds (Continued)								
2-Hexanone	SW8260D	591-78-6	mg/kg	N/A	NS	75.2	4.73	4.73
4-Chlorotoluene	SW8260D	106-43-4	mg/kg	N/A	NS	NS	NS	NS
4-Methyl-2-Pentanone (MIBK)	SW8260D	108-10-1	mg/kg	N/A	NS	227	NS	227
Acetone	SW8260D	67-64-1	mg/kg	N/A	NS	90.9	951	90.9
Benzene	SW8260D	71-43-2	mg/kg	N/A	NS	240	NS	240
Bromobenzene	SW8260D	108-86-1	mg/kg	N/A	NS	NS	NS	NS
Bromochloromethane	SW8260D	74-97-5	mg/kg	N/A	NS	NS	NS	NS
Bromodichloromethane	SW8260D	75-27-4	mg/kg	N/A	NS	NS	NS	NS
Bromoform	SW8260D	75-25-2	mg/kg	N/A	NS	NS	NS	NS
Bromomethane	SW8260D	74-83-9	mg/kg	N/A	NS	NS	NS	NS
Carbon Disulfide	SW8260D	75-15-0	mg/kg	N/A	NS	2.27	NS	2.27
Carbon Tetrachloride	SW8260D	56-23-5	mg/kg	N/A	NS	NS	NS	NS
Chlorobenzene	SW8260D	108-90-7	mg/kg	N/A	NS	545	284	284
Chloroethane	SW8260D	75-00-3	mg/kg	N/A	NS	NS	NS	NS
Chloroform	SW8260D	67-66-3	mg/kg	N/A	NS	136	NS	136
Chloromethane	SW8260D	74-87-3	mg/kg	N/A	NS	NS	NS	NS
cis-1,2-Dichloroethene	SW8260D	156-59-2	mg/kg	N/A	NS	411	NS	411
cis-1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	N/A	NS	NS	NS	NS
Dibromochloromethane	SW8260D	124-48-1	mg/kg	N/A	NS	NS	NS	NS
Dibromomethane	SW8260D	74-95-3	mg/kg	N/A	NS	NS	NS	NS
Dichlorodifluoromethane	SW8260D	75-71-8	mg/kg	N/A	NS	NS	NS	NS
Ethylbenzene	SW8260D	100-41-4	mg/kg	N/A	NS	NS	NS	NS
Hexachlorobutadiene	SW8260D	87-68-3	mg/kg	N/A	NS	NS	NS	NS
Isopropylbenzene	SW8260D	98-82-8	mg/kg	N/A	NS	NS	NS	NS
Methyl acetate	SW8260D	79-20-9	mg/kg	N/A	NS	NS	NS	NS
m,p-Xylenes	SW8260D	179601-23-1	mg/kg	N/A	NS	19.1	506	19.1

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Volatile Organic Compounds (Continued)								
Methyl Tert-Butyl Ether	SW8260D	1634-04-4	mg/kg	N/A	NS	NS	NS	NS
Methylene Chloride	SW8260D	75-09-2	mg/kg	N/A	1,670	53.2	NS	53.2
Naphthalene	SW8260D	91-20-3	mg/kg	N/A	1.00	130	71.0	1.00
n-Butylbenzene	SW8260D	104-51-8	mg/kg	N/A	NS	NS	NS	NS
n-Propylbenzene	SW8260D	103-65-1	mg/kg	N/A	NS	NS	NS	NS
o-Xylene	SW8260D	95-47-6	mg/kg	N/A	NS	NS	NS	NS
4-Isopropyltoluene	SW8260D	99-87-6	mg/kg	N/A	NS	NS	NS	NS
Sec-Butylbenzene	SW8260D	135-98-8	mg/kg	N/A	NS	NS	NS	NS
Styrene	SW8260D	100-42-5	mg/kg	N/A	3.20	NS	NS	3.20
Tert-Butylbenzene	SW8260D	98-06-6	mg/kg	N/A	NS	NS	NS	NS
Tetrachloroethene	SW8260D	127-18-4	mg/kg	N/A	10.0	18.2	NS	10.0
Toluene	SW8260D	108-88-3	mg/kg	N/A	200	236	NS	200
Trans-1,2-Dichloroethene	SW8260D	156-60-5	mg/kg	N/A	NS	411	NS	411
Trans-1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	N/A	NS	NS	NS	NS
Trichloroethene	SW8260D	79-01-6	mg/kg	N/A	NS	909	NS	909
Trichlorofluoromethane	SW8260D	75-69-4	mg/kg	N/A	NS	1,930	NS	1,930
Vinyl Chloride	SW8260D	75-01-4	mg/kg	N/A	NS	1.55	NS	1.55
Explosives								
1,3,5-Trinitrobenzene	SW8330B	99-35-4	mg/kg	N/A	NS	122	NS	122
1,3-Dinitrobenzene	SW8330B	99-65-0	mg/kg	N/A	NS	1.03	2.00	1.03
2,4-Dinitrotoluene	SW8330B	121-14-2	mg/kg	N/A	6.00	24.4	NS	6.00
2,6-Dinitrotoluene	SW8330B	606-20-2	mg/kg	N/A	NS	16.1	284	16.1
2,4,6-Trinitrotoluene (TNT)	SW8330B	118-96-7	mg/kg	N/A	62.1	315	46.1	46.1
2-Amino-4,6-Dinitrotoluene	SW8330B	35572-78-2	mg/kg	N/A	14.0	126	NS	14.0
2-Nitrotoluene	SW8330B	88-72-2	mg/kg	N/A	NS	81.0	NS	81.0
3-Nitrotoluene	SW8330B	99-08-1	mg/kg	N/A	NS	97.3	NS	97.3

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Explosives (Continued)								
4-Amino-2,6-Dinitrotoluene	SW8330B	19406-51-0	mg/kg	N/A	33.0	87.2	NS	33.0
4-Nitrotoluene	SW8330B	99-99-0	mg/kg	N/A	NS	178	NS	178
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	SW8330B	121-82-4	mg/kg	N/A	NS	81.3	11.2	11.2
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	SW8330B	479-45-8	mg/kg	N/A	NS	11.8	NS	11.8
Nitrobenzene	SW8330B	98-95-3	mg/kg	N/A	NS	53.6	NS	53.6
Nitroglycerin	SW8330B	55-63-0	mg/kg	N/A	21.0	876	NS	21.0
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	SW8330B	2691-41-0	mg/kg	N/A	2,740	682	NS	682
Pentaerythritol Tetranitrate (PETN)	SW8330B	78-11-5	mg/kg	N/A	NS	636	NS	636
Total Petroleum Hydrocarbons								
GRO (C6-C10)	SW8015D	8006-61-1	mg/kg	N/A	NS	NS	NS	NS
DRO (C10-C28)	SW8015D	68334-30-5	mg/kg	N/A	NS	NS	NS	NS
DRO Extended (C10-C36)	SW8015D	68334-30-5	mg/kg	N/A	NS	NS	NS	NS
PCBs								
Aroclor 1016	SW8082A	12674-11-2	mg/kg	N/A	NS	13.5	NS	13.5
Aroclor 1221	SW8082A	11104-28-2	mg/kg	N/A	NS	NS	NS	NS
Aroclor 1232	SW8082A	11141-16-5	mg/kg	N/A	NS	NS	NS	NS
Aroclor 1242	SW8082A	53469-21-9	mg/kg	N/A	NS	NS	NS	NS
Aroclor 1248	SW8082A	12672-29-6	mg/kg	N/A	NS	NS	NS	NS
Aroclor 1254	SW8082A	11097-69-1	mg/kg	N/A	163	5.55	0.473	0.473
Aroclor 1260	SW8082A	11096-82-5	mg/kg	N/A	NS	125	10.2	10.20
Aroclor 1262	SW8082A	37324-23-5	mg/kg	N/A	NS	NS	NS	NS
Aroclor 1268	SW8082A	11100-14-4	mg/kg	N/A	NS	NS	NS	NS

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Chlorinated Pesticides								
alpha-BHC	SW8081B	319-84-6	mg/kg	N/A	NS	791	NS	791
beta-BHC	SW8081B	319-85-7	mg/kg	N/A	NS	3.64	181	3.64
delta-BHC	SW8081B	319-86-8	mg/kg	N/A	NS	0.127	NS	0.127
gamma-BHC (Lindane)	SW8081B	58-89-9	mg/kg	N/A	0.100	0.127	2.65	0.100
Heptachlor	SW8081B	76-44-8	mg/kg	N/A	0.408	0.909	4.35	0.408
Aldrin	SW8081B	309-00-2	mg/kg	N/A	NS	1.82	NS	1.82
Heptachlor Epoxide	SW8081B	1024-57-3	mg/kg	N/A	NS	NS	NS	NS
Endosulfan I	SW8081B	959-98-8	mg/kg	N/A	NS	1.36	47.3	1.36
Endosulfan II	SW8081B	33213-65-9	mg/kg	N/A	NS	1.36	47.3	1.36
Dieldrin	SW8081B	60-57-1	mg/kg	N/A	10.0	0.136	0.335	0.136
4,4'-DDD	SW8081B	72-54-8	mg/kg	N/A	NS	53.0	0.0757	0.0757
4,4'-DDE	SW8081B	72-55-9	mg/kg	N/A	NS	82.0	2.27	2.27
4,4'-DDT	SW8081B	50-29-3	mg/kg	N/A	4.10	1.26	9.51	1.26
Endrin	SW8081B	72-20-8	mg/kg	N/A	0.0034	0.836	0.0473	0.0034
Endrin Ketone	SW8081B	53494-70-5	mg/kg	N/A	NS	NS	NS	NS
Endosulfan sulfate	SW8081B	1031-07-8	mg/kg	N/A	NS	NS	NS	NS
Chlorinated Pesticides (Continued)								
Methoxychlor	SW8081B	72-43-5	mg/kg	N/A	NS	36.4	122	36.4
Endrin aldehyde	SW8081B	7421-93-4	mg/kg	N/A	NS	NS	NS	NS
alpha-Chlordane	SW8081B	5103-71-9	mg/kg	N/A	2.24	10.7	10.1	2.24
gamma-Chlordane	SW8081B	5103-74-2	mg/kg	N/A	2.24	10.7	10.1	2.24
Toxaphene	SW8081B	8001-35-2	mg/kg	N/A	NS	NS	NS	NS

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	
Herbicides [6]								
2,4-D	SW8321B	94-75-7	mg/kg	N/A	NS	NS	NS	NS
2,4-DB	SW8321B	94-82-6	mg/kg	N/A	NS	NS	NS	NS
2,4,5-T	SW8321B	93-76-5	mg/kg	N/A	NS	NS	NS	NS
2,4,5-TP (Silvex)	SW8321B	93-72-1	mg/kg	N/A	NS	NS	NS	NS
Dicamba	SW8321B	1918-00-9	mg/kg	N/A	NS	NS	NS	NS
Dichloroprop	SW8321B	120-36-5	mg/kg	N/A	NS	NS	NS	NS
Dinoseb	SW8321B	88-85-7	mg/kg	N/A	NS	NS	NS	NS
DCAA	SW8321B	19719-28-9	mg/kg	N/A	NS	NS	NS	NS
MCPA	SW8321B	94-74-6	mg/kg	N/A	NS	NS	NS	NS
MCPP	SW8321B	93-65-2	mg/kg	N/A	NS	NS	NS	NS
Dioxins/Furans								
2,3,7,8-TCDD	SW8290	1746-01-6	mg/kg	N/A	NS	0.00000511	NS	0.00000511

Notes:

1. Analytical Method - EPA Test Methods for Evaluating Solid Waste latest edition (the most current version of each method the laboratory is accredited to will be used).

2. FWDA background levels as taken from:
   - All metals except for arsenic _ Table 8-1 from "Soil Background Study and Data Evaluation Report" (Shaw, 2010).
   - Arsenic - "*Evaluation of Background Levels for Arsenic in Soil*" (NMED, 2013b)

3. NMED *Risk Assessment Guidance for Site Investigations and Remediation, Volume II - Soil Screening Guidance for Ecological Risk Assessments,* Appendix C. March 2017 Revised.

4. The most recent screening levels published by NMED at the time the risk evaluation is conducted will be used in the risk evaluation.

5. The selected screening level (lowest NMED ESL or Background Value) shown in this table is for use in the screening level ecological risk assessment, except for some metals where the background value is selected if it is greater than the lowest ecological screening level. For these metals, the ecological screening level will be used in the risk evaluation if the metal is found to be present at concentrations that are not consistent with background levels.

6. NMED does not publish ESLs (or effect concentrations) for herbicides. If these analytes are detected, alternate screening level sources will be sought for use in the risk evaluation.

Table 6.6 - Ecological Screening Levels in Soil

Analyte	Analytical Method[1]	CASRN	Units	Background Value[2]	Ecological Screening Level [3, 4]			Most Protective ESL or Background Value[5]
					Plants	Deer Mouse	Horned Lark	

Acronyms and Abbreviations:

CASRN = Chemical Abstracts Service Registry Number
DRO = Diesel-range organics
EPA = United States Environmental Protection Agency
ESL = Ecological Screening Level
FWDA = Fort Wingate Depot Activity
mg/kg = Milligram per kilogram
N/A = Not applicable
NMED = New Mexico Environment Department
NS = No standard
RCRA = Resource Conservation and Recovery Act
SIM = Selected ion mode

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Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
TAL Metals											
Aluminum (4)	-	SW6020B	7429-90-5	mg/kg	23,340	41,400	HH SL	520	11	10	3.77
Antimony	-	SW6020B	7440-36-0	mg/kg	0.23	6.56	Soil to GW SL	0.536	0.2	0.12	0.0376
Arsenic	-	SW6020B	7440-38-2	mg/kg	5.60	5.83	Soil to GW SL	9.45	0.6	0.2	0.0506
Barium (4)	-	SW6020B	7440-39-3	mg/kg	482	2,700	Soil to GW SL	118	0.4	0.2	0.0723
Beryllium	-	SW6020B	7440-41-7	mg/kg	1.49	148	HH SL	2.50	0.1	0.08	0.0225
Cadmium	-	SW6020B	7440-43-9	mg/kg	0.224	9.39	Soil to GW SL	6.95	0.1	0.06	0.0203
Calcium	-	SW6020B	7440-70-2	mg/kg	91,760	8,850,000	HH SL	NS	50	25	8.9
Cobalt (5)	-	SW6020B	7440-48-4	mg/kg	6.82	5.40	Soil to GW SL	13.0	0.1	0.025	0.00663
Copper	-	SW6020B	7440-50-8	mg/kg	18.4	915	Soil to GW SL	19.2	0.6	0.45	0.2
Iron (5)	-	SW6020B	7439-89-6	mg/kg	22,660	6,960	Soil to GW SL	NS	15	14	3.94
Lead (5,6)	-	SW6020B	7439-92-1	mg/kg	12.4	200	HH SL	7.71	0.4	0.12	0.0385
Magnesium	-	SW6020B	7439-95-4	mg/kg	8,170	1,550,000	HH SL	NS	50	10	2.5
Manganese (4,5)	-	SW6020B	7439-96-5	mg/kg	1,058	464	HH SL	220	0.5	0.3	0.0961
Mercury	-	SW7471B	7439-97-6	mg/kg	0.0300	2.09	Soil to GW SL	0.0899	0.017	0.0133	0.00553
Nickel (4)	-	SW6020B	7440-02-0	mg/kg	19.5	485	Soil to GW SL	15.5	0.6	0.35	0.169
Potassium	-	SW6020B	7440-09-7	mg/kg	3,950	15,600,000	HH SL	NS	25	19	5.29
Selenium	-	SW6020B	7782-49-2	mg/kg	0.513	10.2	Soil to GW SL	0.520	0.5	0.12	0.0347
Silver	-	SW6020B	7440-22-4	mg/kg	0.130	13.8	Soil to GW SL	10.4	0.1	0.02	0.00539
Sodium	-	SW6020B	7440-23-5	mg/kg	2,526	7,820,000	HH SL	NS	40	36	9.04
Thallium (4)	-	SW6020B	7440-28-0	mg/kg	0.213	0.782	HH SL	0.0500	0.1	0.06	0.0177
Total Chromium (4)	-	SW6020B	7440-47-3	mg/kg	18.1	96.6	HH SL	12.6	0.6	0.2	0.0964
Vanadium (4)	-	SW6020B	7440-62-2	mg/kg	27.2	394	HH SL	1.63	0.5	0.3	0.104
Zinc	-	SW6020B	7440-66-6	mg/kg	49.2	7,410	Soil to GW SL	160	2	1.4	0.688
Semi-Volatile Organic Compounds											
2,2-Oxybis(1-chloropropane)	-	SW8270E	108-60-1	mg/kg	N/A	0.0475	Soil to GW SL	NS	0.33	0.067	0.023
2,4,5-Trichlorophenol	-	SW8270E	95-95-4	mg/kg	N/A	66.2	Soil to GW SL	NS	0.33	0.033	0.01
2,4,6-Trichlorophenol	-	SW8270E	88-06-2	mg/kg	N/A	0.674	Soil to GW SL	NS	0.33	0.033	0.01
2,4-Dichlorophenol	-	SW8270E	120-83-2	mg/kg	N/A	0.825	Soil to GW SL	NS	0.33	0.033	0.01
2,4-Dimethylphenol	-	SW8270E	105-67-9	mg/kg	N/A	6.45	Soil to GW SL	NS	0.33	0.133	0.066
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	N/A	0.669	Soil to GW SL	NS	1.6	1	0.333
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	N/A	0.0492	Soil to GW SL	6.00	0.33	0.133	0.066
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	N/A	0.0102	Soil to GW SL	16.1	0.33	0.067	0.028

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Semi-Volatile Organic Compounds (Continued)											
2-Chloronaphthalene	-	SW8270E	91-58-7	mg/kg	N/A	57.0	Soil to GW SL	NS	0.33	0.033	0.01
2-Chlorophenol	-	SW8270E	95-57-8	mg/kg	N/A	1.15	Soil to GW SL	4.55	0.33	0.067	0.021
2-Methylphenol	-	SW8270E	95-48-7	mg/kg	N/A	15.1	Soil to GW SL	0.670	0.33	0.033	0.013
2-Nitroaniline	-	SW8270E	88-74-4	mg/kg	N/A	1.60	Soil to GW SL	27.3	1.6	0.133	0.05
2-Nitrophenol	-	SW8270E	88-75-5	mg/kg	N/A	NS		NS	0.33	0.033	0.01
3 & 4 Methylphenol	p-cresol	SW8270E	15831-10-4	mg/kg	N/A	5.94	Soil to GW SL	0.690	0.33	0.067	0.033
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	N/A	0.124	Soil to GW SL	NS	1.6	0.267	0.09
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	0.316	Soil to GW SL	NS	1.6	0.267	0.073
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	N/A	0.0398	Soil to GW SL	NS	1.6	1	0.33
4-Bromophenyl-phenyl ether	-	SW8270E	101-55-3	mg/kg	N/A	NS		NS	0.33	0.067	0.019
4-Chloro-3-Methylphenol	-	SW8270E	59-50-7	mg/kg	N/A	34.3	Soil to GW SL	NS	0.33	0.067	0.0248
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	N/A	0.0311	Soil to GW SL	NS	0.33	0.267	0.0819
4-Chlorophenyl-phenyl ether	-	SW8270E	7005-72-3	mg/kg	N/A	NS		NS	0.33	0.067	0.021
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	N/A	0.316	Soil to GW SL	NS	1.6	0.267	0.0725
4-Nitrophenol	-	SW8270E	100-02-7	mg/kg	N/A	NS		NS	1.6	0.267	0.097
Benzaldehyde	-	SW8270E	100-52-7	mg/kg	N/A	0.829	Soil to GW SL	NS	0.33	0.167	0.067
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	N/A	0.270	Soil to GW SL	NS	0.33	0.067	0.023
Bis(2-Chloroethyl)Ether	-	SW8270E	111-44-4	mg/kg	N/A	0.000605	Soil to GW SL	NS	0.33	0.033	0.0166
Bis(2-Ethylhexyl)Phthalate	-	SW8270E	117-81-7	mg/kg	N/A	200	Soil to GW SL	5.20	0.33	0.133	0.046
Butylbenzylphthalate	-	SW8270E	85-68-7	mg/kg	N/A	47.3	Soil to GW SL	1,450	0.33	0.133	0.043
Caprolactam	-	SW8270E	105-60-2	mg/kg	N/A	49.4	Soil to GW SL	NS	1.6	0.267	0.106
Carbazole	Fluorene	SW8270E	86-74-8	mg/kg	N/A	80.0	Soil to GW SL	207	0.33	0.133	0.036
Dibenzofuran	-	SW8270E	132-64-9	mg/kg	N/A	2.91	Soil to GW SL	6.17	0.33	0.067	0.02
Diethylphthalate	-	SW8270E	84-66-2	mg/kg	N/A	98	Soil to GW SL	100	0.66	0.067	0.026
Dimethylphthalate	-	SW8270E	131-11-3	mg/kg	N/A	NS		618	0.33	0.067	0.023
Di-N-Butylphthalate	-	SW8270E	84-74-2	mg/kg	N/A	33.8	Soil to GW SL	0.662	0.33	0.067	0.029
Di-n-Octylphthalate	-	SW8270E	117-84-0	mg/kg	N/A	630	HH SL	592	0.33	0.133	0.0405
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	N/A	0.189	Soil to GW SL	10.0	0.33	0.067	0.029
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	N/A	0.0413	Soil to GW SL	NS	0.33	0.033	0.01
Hexachlorocyclopentadiene	-	SW8270E	77-47-4	mg/kg	N/A	2.30	HH SL	NS	1.7	0.333	0.111
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	N/A	0.0320	Soil to GW SL	NS	0.33	0.067	0.0213
Isophorone	-	SW8270E	78-59-1	mg/kg	N/A	4.23	Soil to GW SL	NS	0.33	0.067	0.017
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	N/A	0.0144	Soil to GW SL	53.6	0.33	0.067	0.022

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Semi-Volatile Organic Compounds (Continued)											
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	N/A	0.00162	Soil to GW SL	NS	0.33	0.167	0.068
N-Nitrosodiphenylamine	-	SW8270E	86-30-6	mg/kg	N/A	10.0	Soil to GW SL	NS	0.33	0.067	0.021
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	N/A	0.152	Soil to GW SL	5.00	1.6	1	0.33
Phenol	-	SW8270E	108-95-2	mg/kg	N/A	52.3	Soil to GW SL	0.790	0.33	0.067	0.018
Polycyclic Aromatic Hydrocarbons											
2-Methylnaphthalene	-	SW8270E	91-57-6	mg/kg	N/A	2.76	Soil to GW SL	NS	0.33	0.067	0.019
Acenaphthene	-	SW8270E	83-32-9	mg/kg	N/A	83	Soil to GW SL	0.250	0.33	0.033	0.0103
Acenaphthylene	Pyrene	SW8270E	208-96-8	mg/kg	N/A	192	Soil to GW SL	636	0.33	0.267	0.0821
Anthracene	-	SW8270E	120-12-7	mg/kg	N/A	851	Soil to GW SL	6.88	0.33	0.067	0.017
Benzo(a)anthracene	-	SW8270E	56-55-3	mg/kg	N/A	0.64	Soil to GW SL	0.506	0.33	0.067	0.02
Benzo(a)pyrene	-	SW8270E	50-32-8	mg/kg	N/A	1.12	HH SL	50.7	0.33	0.067	0.02
Benzo(b)fluoranthene	-	SW8270E	205-99-2	mg/kg	N/A	1.53	HH SL	18.0	0.33	0.067	0.0262
Benzo(k)fluoranthene	-	SW8270E	207-08-9	mg/kg	N/A	15.3	HH SL	65.4	0.33	0.133	0.04
Benzo(g,h,i)perylene	Pyrene	SW8270E	191-24-2	mg/kg	N/A	192	Soil to GW SL	65.4	0.33	0.033	0.016
Chrysene	-	SW8270E	218-01-9	mg/kg	N/A	153	HH SL	1.55	0.33	0.067	0.027
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	N/A	0.153	HH SL	12.1	0.33	0.067	0.019
Fluoranthene	-	SW8270E	206-44-0	mg/kg	N/A	1,340	Soil to GW SL	114	0.33	0.133	0.036
Fluorene	-	SW8270E	86-73-7	mg/kg	N/A	80.0	Soil to GW SL	1,140	0.33	0.067	0.018
Indeno(1,2,3-cd)pyrene	-	SW8270E	193-39-5	mg/kg	N/A	1.53	HH SL	65.4	0.33	0.067	0.022
Naphthalene	-	SW8270E	91-20-3	mg/kg	N/A	0.0583	Soil to GW SL	1.00	0.33	0.067	0.031
Phenanthrene	-	SW8270E	85-01-8	mg/kg	N/A	85.9	Soil to GW SL	46.7	0.33	0.067	0.017
Pyrene	-	SW8270E	129-00-0	mg/kg	N/A	192	Soil to GW SL	68.2	0.4	0.033	0.0121
2-Fluorobiphenyl (Surrogate)	-	SW8270E	321-60-8	mg/kg	N/A	N/A	N/A	N/A	0.066	0.04	0.02
Nitrobenzene-d5 (Surrogate)	-	SW8270E	4165-60-0	mg/kg	N/A	N/A	N/A	N/A	0.066	0.05	0.016
Terphenyl-d14 (Surrogate)	-	SW8270E	1718-51-0	mg/kg	N/A	N/A	N/A	N/A	0.066	0.04	0.016
1-Methylnaphthalene	-	SW8270E SIM	90-12-0	mg/kg	N/A	0.893	Soil to GW SL	NS	0.01	0.002	0.00052
2-Methylnaphthalene	-	SW8270E SIM	91-57-6	mg/kg	N/A	2.76	Soil to GW SL	NS	0.01	0.002	0.000618
Acenaphthene	-	SW8270E SIM	83-32-9	mg/kg	N/A	83	Soil to GW SL	0.250	0.01	0.002	0.000924
Acenaphthylene	Pyrene	SW8270E SIM	208-96-8	mg/kg	N/A	192	Soil to GW SL	636	0.01	0.002	0.000775
Anthracene	-	SW8270E SIM	120-12-7	mg/kg	N/A	851	Soil to GW SL	6.88	0.01	0.00433	0.00144
Benzo(a)anthracene	-	SW8270E SIM	56-55-3	mg/kg	N/A	0.64	Soil to GW SL	0.506	0.01	0.00433	0.0018
Benzo(a)pyrene	-	SW8270E SIM	50-32-8	mg/kg	N/A	1.12	HH SL	50.7	0.01	0.00433	0.00148
Benzo(b)fluoranthene	-	SW8270E SIM	205-99-2	mg/kg	N/A	1.53	HH SL	18.0	0.01	0.00667	0.0024

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Polycyclic Aromatic Hydrocarbons (Continued)											
Benzo(k)fluoranthene	-	SW8270E SIM	207-08-9	mg/kg	N/A	15.3	HH SL	65.4	0.01	0.00433	0.002
Benzo(g,h,i)perylene	Pyrene	SW8270E SIM	191-24-2	mg/kg	N/A	192	Soil to GW SL	65.4	0.01	0.00667	0.0022
Chrysene	-	SW8270E SIM	218-01-9	mg/kg	N/A	153	HH SL	1.55	0.01	0.00433	0.002
Dibenz(a,h)anthracene	-	SW8270E SIM	53-70-3	mg/kg	N/A	0.153	HH SL	12.1	0.01	0.00667	0.0026
Fluoranthene	-	SW8270E SIM	206-44-0	mg/kg	N/A	1,340	Soil to GW SL	114	0.01	0.00433	0.002
Fluorene	-	SW8270E SIM	86-73-7	mg/kg	N/A	80.0	Soil to GW SL	1,140	0.01	0.00267	0.00094
Indeno(1,2,3-cd)pyrene	-	SW8270E SIM	193-39-5	mg/kg	N/A	1.53	HH SL	65.4	0.01	0.00667	0.0022
Naphthalene	-	SW8270E SIM	91-20-3	mg/kg	N/A	0.0583	Soil to GW SL	1.00	0.01	0.002	0.000652
Phenanthrene	-	SW8270E SIM	85-01-8	mg/kg	N/A	85.9	Soil to GW SL	46.7	0.01	0.00667	0.0022
Pyrene	-	SW8270E SIM	129-00-0	mg/kg	N/A	192	Soil to GW SL	68.2	0.01	0.00667	0.0022
Volatile Organic Compounds											
1,1,1,2-Tetrachloroethane	-	SW8260D	630-20-6	mg/kg	N/A	0.0360	Soil to GW SL	NS	0.005	0.004	0.00222
1,1,1-Trichloroethane	-	SW8260D	71-55-6	mg/kg	N/A	51.1	Soil to GW SL	9,080	0.005	0.004	0.00198
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	N/A	0.00481	Soil to GW SL	403	0.005	0.0008	0.000285
1,1,2-Trichloroethane	-	SW8260D	79-00-5	mg/kg	N/A	0.0268	Soil to GW SL	35.5	0.005	0.0032	0.00088
1,1-Dichloroethane	-	SW8260D	75-34-3	mg/kg	N/A	0.136	Soil to GW SL	3,470	0.005	0.0008	0.00021
1,1-Dichloroethene	-	SW8260D	75-35-4	mg/kg	N/A	1.95	Soil to GW SL	273	0.005	0.0016	0.00059
1,1-Dichloropropene	1,3-Dichloropropene	SW8260D	563-58-6	mg/kg	N/A	0.0281	Soil to GW SL	NS	0.005	0.0004	0.000164
1,2,3-Trichlorobenzene	-	SW8260D	87-61-6	mg/kg	N/A	0.418	Soil to GW SL	NS	0.005	0.0032	0.00081
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	N/A	0.0000582	Soil to GW SL	NS	0.005	0.0008	0.000218
1,2,4-Trichlorobenzene	-	SW8260D	120-82-1	mg/kg	N/A	3.10	Soil to GW SL	13.5	0.005	0.0016	0.00073
1,2,4-Trimethylbenzene	-	SW8260D	95-63-6	mg/kg	N/A	1.62	Soil to GW SL	NS	0.005	0.004	0.00231
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	N/A	0.00139	Soil to GW SL	NS	0.01	0.009	0.00366
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	N/A	0.000352	Soil to GW SL	NS	0.005	0.0016	0.00052
1,2-Dichlorobenzene	-	SW8260D	95-50-1	mg/kg	N/A	9.08	Soil to GW SL	22.7	0.005	0.004	0.00187
1,2-Dichloroethane	-	SW8260D	107-06-2	mg/kg	N/A	0.0238	Soil to GW SL	21.8	0.005	0.0016	0.0007
1,2-Dichloropropane	-	SW8260D	78-87-5	mg/kg	N/A	0.0277	Soil to GW SL	NS	0.005	0.0016	0.00055
1,3,5-Trimethylbenzene	-	SW8260D	108-67-8	mg/kg	N/A	1.73	Soil to GW SL	NS	0.005	0.004	0.00242
1,3-Dichloropropane	-	SW8260D	142-28-9	mg/kg	N/A	2.57	Soil to GW SL	NS	0.005	0.0004	0.000173
1,3-Dichlorobenzene	1,4-Dichlorobenzene	SW8260D	541-73-1	mg/kg	N/A	1.12	Soil to GW SL	22.7	0.005	0.0016	0.00048
1,4-Dichlorobenzene	-	SW8260D	106-46-7	mg/kg	N/A	1.12	Soil to GW SL	22.7	0.005	0.0008	0.000245

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Volatile Organic Compounds (Continued)											
2,2-Dichloropropane	1,2-Dichloropropane	SW8260D	594-20-7	mg/kg	N/A	0.0277	Soil to GW SL	NS	0.005	0.0016	0.00044
2-Butanone (MEK)	-	SW8260D	78-93-3	mg/kg	N/A	20.1	Soil to GW SL	16,100	0.02	0.0128	0.00389
2-Chlorotoluene	-	SW8260D	95-49-8	mg/kg	N/A	3.56	Soil to GW SL	NS	0.005	0.0016	0.00051
2-Hexanone	-	SW8260D	591-78-6	mg/kg	N/A	0.175	Soil to GW SL	4.73	0.02	0.0128	0.00489
4-Chlorotoluene	-	SW8260D	106-43-4	mg/kg	N/A	4.83	Soil to GW SL	NS	0.005	0.0008	0.000361
4-Methyl-2-Pentanone (MIBK)	-	SW8260D	108-10-1	mg/kg	N/A	4.8	Soil to GW SL	227	0.02	0.0128	0.00436
Acetone	-	SW8260D	67-64-1	mg/kg	N/A	49.8	Soil to GW SL	90.9	0.072	0.07	0.0356
Benzene	-	SW8260D	71-43-2	mg/kg	N/A	0.0418	Soil to GW SL	240	0.005	0.0004	0.000151
Bromobenzene	-	SW8260D	108-86-1	mg/kg	N/A	0.842	Soil to GW SL	NS	0.005	0.0016	0.00049
Bromochloromethane	-	SW8260D	74-97-5	mg/kg	N/A	0.415	Soil to GW SL	NS	0.005	0.004	0.00246
Bromodichloromethane	-	SW8260D	75-27-4	mg/kg	N/A	0.00621	Soil to GW SL	NS	0.005	0.004	0.00213
Bromoform	-	SW8260D	75-25-2	mg/kg	N/A	0.147	Soil to GW SL	NS	0.0051	0.005	0.00255
Bromomethane	-	SW8260D	74-83-9	mg/kg	N/A	0.0343	Soil to GW SL	NS	0.01	0.0032	0.00135
Carbon Disulfide	-	SW8260D	75-15-0	mg/kg	N/A	4.42	Soil to GW SL	2.27	0.005	0.004	0.00166
Carbon Tetrachloride	-	SW8260D	56-23-5	mg/kg	N/A	0.0367	Soil to GW SL	NS	0.005	0.004	0.00201
Chlorobenzene	-	SW8260D	108-90-7	mg/kg	N/A	1.08	Soil to GW SL	284	0.005	0.004	0.00206
Chloroethane	-	SW8260D	75-00-3	mg/kg	N/A	107	Soil to GW SL	NS	0.01	0.0064	0.00199
Chloroform	-	SW8260D	67-66-3	mg/kg	N/A	0.0109	Soil to GW SL	136	0.01	0.0008	0.00029
Chloromethane	-	SW8260D	74-87-3	mg/kg	N/A	0.095	Soil to GW SL	NS	0.01	0.0016	0.00077
cis-1,2-Dichloroethene	-	SW8260D	156-59-2	mg/kg	N/A	0.352	Soil to GW SL	411	0.005	0.0008	0.000201
cis-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-01-5	mg/kg	N/A	0.0281	Soil to GW SL	NS	0.005	0.0004	0.0001
Dibromochloromethane	-	SW8260D	124-48-1	mg/kg	N/A	0.0076	Soil to GW SL	NS	0.005	0.004	0.00227
Dibromomethane	-	SW8260D	74-95-3	mg/kg	N/A	0.0335	Soil to GW SL	NS	0.005	0.0008	0.000317
Dichlorodifluoromethane	-	SW8260D	75-71-8	mg/kg	N/A	7.23	Soil to GW SL	NS	0.01	0.0064	0.00274
Ethylbenzene	-	SW8260D	100-41-4	mg/kg	N/A	12.3	Soil to GW SL	NS	0.005	0.0008	0.000305
Hexachlorobutadiene	-	SW8260D	87-68-3	mg/kg	N/A	0.0413	Soil to GW SL	NS	0.005	0.004	0.00217
Isopropylbenzene	-	SW8260D	98-82-8	mg/kg	N/A	11.4	Soil to GW SL	NS	0.005	0.004	0.00241
Methyl acetate	-	SW8260D	79-20-9	mg/kg	N/A	71.1	Soil to GW SL	NS	0.0085	0.008	0.00275
m,p-Xylenes	Xylenes	SW8260D	179601-23-1	mg/kg	N/A	154	Soil to GW SL	19.1	0.0032	0.003	0.00104
Methyl Tert-Butyl Ether	-	SW8260D	1634-04-4	mg/kg	N/A	0.553	Soil to GW SL	NS	0.02	0.0064	0.00211
Methylene Chloride	-	SW8260D	75-09-2	mg/kg	N/A	0.471	Soil to GW SL	53.2	0.005	0.0032	0.0016
Naphthalene	-	SW8260D	91-20-3	mg/kg	N/A	0.0583	Soil to GW SL	1.00	0.0067	0.005	0.00331

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Volatile Organic Compounds (Continued)											
n-Butylbenzene	-	SW8260D	104-51-8	mg/kg	N/A	64.6	Soil to GW SL	NS	0.005	0.0016	0.00056
n-Propylbenzene	-	SW8260D	103-65-1	mg/kg	N/A	24.5	Soil to GW SL	NS	0.005	0.0016	0.00058
o-Xylene	-	SW8260D	95-47-6	mg/kg	N/A	2.98	Soil to GW SL	NS	0.005	0.0008	0.000266
4-Isopropyltoluene	Isopropylbenzene	SW8260D	99-87-6	mg/kg	N/A	11.4	Soil to GW SL	NS	0.005	0.0032	0.00114
Sec-Butylbenzene	-	SW8260D	135-98-8	mg/kg	N/A	117	Soil to GW SL	NS	0.005	0.0016	0.00077
Styrene	-	SW8260D	100-42-5	mg/kg	N/A	20.6	Soil to GW SL	3.20	0.005	0.0008	0.00028
Tert-Butylbenzene	-	SW8260D	98-06-6	mg/kg	N/A	31.1	Soil to GW SL	NS	0.005	0.0016	0.0005
Tetrachloroethene	-	SW8260D	127-18-4	mg/kg	N/A	0.321	Soil to GW SL	10.0	0.005	0.004	0.00191
Toluene	-	SW8260D	108-88-3	mg/kg	N/A	12.1	Soil to GW SL	200	0.005	0.0008	0.000227
Trans-1,2-Dichloroethene	-	SW8260D	156-60-5	mg/kg	N/A	0.503	Soil to GW SL	411	0.005	0.0008	0.00039
Trans-1,3-Dichloropropene	1,3-Dichloropropene	SW8260D	10061-02-6	mg/kg	N/A	0.0281	Soil to GW SL	NS	0.005	0.0002	0.000083
Trichloroethene	-	SW8260D	79-01-6	mg/kg	N/A	0.0310	Soil to GW SL	909	0.005	0.004	0.00191
Trichlorofluoromethane	-	SW8260D	75-69-4	mg/kg	N/A	15.7	Soil to GW SL	1,930	0.01	0.009	0.0032
Vinyl Chloride	-	SW8260D	75-01-4	mg/kg	N/A	0.0134	Soil to GW SL	1.55	0.005	0.0032	0.00134
Explosives											
1,3,5-Trinitrobenzene	-	SW8330B	99-35-4	mg/kg	N/A	42.4	Soil to GW SL	122	0.1	0.04	0.0138
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	N/A	0.0353	Soil to GW SL	1.03	0.1	0.04	0.0166
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	N/A	0.0492	Soil to GW SL	6.00	0.1	0.04	0.0147
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	N/A	0.0102	Soil to GW SL	16.1	0.1	0.04	0.0191
2,4,6-Trinitrotoluene (TNT)	-	SW8330B	118-96-7	mg/kg	N/A	0.86	Soil to GW SL	46.1	0.1	0.07	0.0307
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	N/A	0.0230	Soil to GW SL	14.0	0.1	0.07	0.0329
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	N/A	0.0458	Soil to GW SL	81.0	0.2	0.1	0.0472
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	N/A	0.0250	Soil to GW SL	97.3	0.2	0.15	0.064
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	N/A	0.0230	Soil to GW SL	33.0	0.1	0.07	0.0299
4-Nitrotoluene	-	SW8330B	99-99-0	mg/kg	N/A	0.613	Soil to GW SL	178	0.2	0.1	0.0365
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	N/A	0.0593	Soil to GW SL	11.2	0.2	0.1	0.043
Methyl-2,4,6-trinitrophenylnitramine (Tetryl)	-	SW8330B	479-45-8	mg/kg	N/A	5.59	Soil to GW SL	11.8	0.2	0.1	0.0439
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	N/A	0.0144	Soil to GW SL	53.6	0.3	0.2	0.085
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	N/A	0.0136	Soil to GW SL	21.0	2	0.7	0.215
Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine (HMX)	-	SW8330B	2691-41-0	mg/kg	N/A	19.4	Soil to GW SL	682	0.1	0.07	0.0227

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Explosives (Continued)											
Pentaerythritol Tetranitrate (PETN)	-	SW8330B	78-11-5	mg/kg	N/A	5.18	Soil to GW SL	636	2	1	0.493
Total Petroleum Hydrocarbons											
GRO (C6-C10)	-	SW8015D	8006-61-1	mg/kg	N/A	4.94	Soil to GW SL	NS	2	1.5	0.759
DRO (C10-C28)	-	SW8015D	68334-30-5	mg/kg	N/A	13.2	Soil to GW SL	NS	8	7	3.64
DRO - Extended (C10-C36)	-	SW8015D	68334-30-5	mg/kg	N/A	13.2	Soil to GW SL	NS	10	10	4.38
PCBs											
Aroclor 1016	-	SW8082A	12674-11-2	mg/kg	N/A	2.01	Soil to GW SL	13.5	0.066	0.03	0.0206
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	N/A	0.0143	Soil to GW SL	NS	0.094	0.06	0.0312
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	N/A	0.0143	Soil to GW SL	NS	0.066	0.0213	0.0102
Aroclor 1242	-	SW8082A	53469-21-9	mg/kg	N/A	0.184	Soil to GW SL	NS	0.066	0.06	0.0182
Aroclor 1248	-	SW8082A	12672-29-6	mg/kg	N/A	0.181	Soil to GW SL	NS	0.066	0.03	0.016
Aroclor 1254	-	SW8082A	11097-69-1	mg/kg	N/A	0.308	Soil to GW SL	0.473	0.066	0.03	0.011
Aroclor 1260	-	SW8082A	11096-82-5	mg/kg	N/A	0.83	Soil to GW SL	10.2	0.066	0.03	0.0169
Aroclor 1262	-	SW8082A	37324-23-5	mg/kg	N/A	NS		NS	0.066	0.0213	0.00547
Aroclor 1268	-	SW8082A	11100-14-4	mg/kg	N/A	NS		NS	0.066	0.06	0.0205
Chlorinated Pesticides											
alpha-BHC	-	SW8081B	319-84-6	mg/kg	N/A	0.00608	Soil to GW SL	791	0.0034	0.00133	0.000428
beta-BHC	-	SW8081B	319-85-7	mg/kg	N/A	0.0213	Soil to GW SL	3.64	0.004	0.00267	0.00133
delta-BHC	beta-BHC	SW8081B	319-86-8	mg/kg	N/A	0.0213	Soil to GW SL	0.127	0.0034	0.00267	0.000802
gamma-BHC (Lindane)	-	SW8081B	58-89-9	mg/kg	N/A	0.0364	Soil to GW SL	0.100	0.0034	0.00133	0.000393
Heptachlor	-	SW8081B	76-44-8	mg/kg	N/A	0.497	Soil to GW SL	0.408	0.0034	0.00133	0.000418
Aldrin	-	SW8081B	309-00-2	mg/kg	N/A	0.0049	Soil to GW SL	1.82	0.0034	0.00133	0.000502
Heptachlor Epoxide	-	SW8081B	1024-57-3	mg/kg	N/A	0.00567	Soil to GW SL	NS	0.0034	0.00267	0.000852
Endosulfan I	Endosulfan	SW8081B	959-98-8	mg/kg	N/A	20.4	Soil to GW SL	1.36	0.0034	0.001	0.000352
Endosulfan II	Endosulfan	SW8081B	33213-65-9	mg/kg	N/A	20.4	Soil to GW SL	1.36	0.0034	0.00133	0.000574
Dieldrin	-	SW8081B	60-57-1	mg/kg	N/A	0.0106	Soil to GW SL	0.136	0.0034	0.00133	0.00042
4,4'-DDD	-	SW8081B	72-54-8	mg/kg	N/A	1.12	Soil to GW SL	0.0757	0.0034	0.00267	0.00109
4,4'-DDE	-	SW8081B	72-55-9	mg/kg	N/A	1.63	Soil to GW SL	2.27	0.0034	0.00133	0.000476
4,4'-DDT	-	SW8081B	50-29-3	mg/kg	N/A	11.6	Soil to GW SL	1.26	0.004	0.00267	0.00118
Endrin	-	SW8081B	72-20-8	mg/kg	N/A	1.35	Soil to GW SL	0.00340	0.0034	0.00133	0.000612
Endrin Ketone	-	SW8081B	53494-70-5	mg/kg	N/A	NS		NS	0.0034	0.00133	0.000403
Endosulfan sulfate	Endosulfan	SW8081B	1031-07-8	mg/kg	N/A	20.4	Soil to GW SL	NS	0.0034	0.00133	0.000552

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL
Chlorinated Pesticides (Continued)											
Methoxychlor	-	SW8081B	72-43-5	mg/kg	N/A	40.0	Soil to GW SL	36.4	0.0066	0.00267	0.0009
Endrin aldehyde	Endrin	SW8081B	7421-93-4	mg/kg	N/A	1.35	Soil to GW SL	NS	0.0034	0.00133	0.000342
alpha-Chlordane	Chlordane	SW8081B	5103-71-9	mg/kg	N/A	2.03	Soil to GW SL	2.24	0.0034	0.00133	0.000646
gamma-Chlordane	Chlordane	SW8081B	5103-74-2	mg/kg	N/A	2.03	Soil to GW SL	2.24	0.0034	0.00133	0.000532
Toxaphene	-	SW8081B	8001-35-2	mg/kg	N/A	4.840	HH SL	NS	0.34	0.0933	0.0316
Herbicides											
2,4-D	-	SW8321B	94-75-7	mg/kg	N/A	0.906	Soil to GW SL	NS	0.005	0.002	0.00107
2,4-DB	-	SW8321B	94-82-6	mg/kg	N/A	NS		NS	0.012	0.008	0.00406
2,4,5-T	-	SW8321B	93-76-5	mg/kg	N/A	1.35	Soil to GW SL	NS	0.005	0.002	0.00118
2,4,5-TP (Silvex)	-	SW8321B	93-72-1	mg/kg	N/A	1.22	Soil to GW SL	NS	0.005	0.002	0.000905
Dicamba	-	SW8321B	1918-00-9	mg/kg	N/A	2.93	Soil to GW SL	NS	0.006	0.002	0.00125
Dichloroprop	-	SW8321B	120-36-5	mg/kg	N/A	NS		NS	0.005	0.002	0.000788
Dinoseb	-	SW8321B	88-85-7	mg/kg	N/A	2.57	Soil to GW SL	NS	0.009	0.002	0.000889
DCAA	-	SW8321B	19719-28-9	mg/kg	N/A	NS		NS	0.002	0.001	0.00025
Herbicides (Continued)											
MCPA	-	SW8321B	94-74-6	mg/kg	N/A	0.0391	Soil to GW SL	NS	0.005	0.002	0.00112
MCPP	-	SW8321B	93-65-2	mg/kg	N/A	0.0930	Soil to GW SL	NS	0.005	0.002	0.0012
Dioxins/Furans											
2,3,7,8-TCDD	-	SW8290	1746-01-6	mg/kg	N/A	0.000049	HH SL	0.00000511	########	########	########

Notes:

1. Selected FWDA background values are presented in Table 8-1 from Soil Background Study and Data Evaluation Report (Shaw, 2010), except arsenic:
   -The arsenic background reference value is 5.6 mg/kg per Evaluation of Background Levels for Arsenic in Soil (NMED, 2013b). If the maximum arsenic concentration is greater than 5.6 mg/kg, then the range of arsenic concentrations in the sample data set is to be compared to the range of arsenic concentrations in the site-specific background data set (0.2 mg/kg to 11.2 mg/kg).
2. The human health screening value is lower value between the following screening levels:
   -NMED direct contact screening level (for residents, industrial/occupational workers, and construction workers; if there is no NMED direct contact screening level, the lowest EPA RSL was selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0);
   -NMED groundwater protection SSL (via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised, Appendix A, Table A-3, risk-based SSL and NMGW/MCL-based SSL, and Table 6-4 for petroleum hydrocarbon mixtures, DAF=20; if there is no NMED groundwater protection SSL. A site-specific Risk-Based RSL for Soil to
   The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.
3. The ecological screening value is the lowest ESL for deer mouse, horned lark, and plants from Tables C-1, C-2, and C-6, respectively, via NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume II - Soil Screening Guidance for Ecological Risk Assessments, Appendix C, March 2017 Revised.
4. The background value is greater than the ecological screening value.
5. The background value greater than the human health screening value.

Table 6.7 – Comparison of Screening Levels in Soil to Laboratory Limits

Analyte	Screening Level Surrogate	Analytical Method	CASRN	Units	Background Value [1]	Selected Human Health Screening Value [2]	Selected Human Health Screening Value Source [2]	Selected Ecological Screening Value [3]	Achievable Laboratory Limits		
									LOQ	LOD	DL

6. Lead human health screening levels appear in the non-cancer column, but the health effects of lead are not correlated with the typical carcinogenic or non-carcinogenic dose-based toxicity values that characterize other chemicals. Instead, the screening level for lead is based on a modeled concentration in soil that results in an acceptable blood lead level protective of adverse developmental health effects (USEPA, 2024).

Cells shaded in blue show that the screening level is lower than the achievable LOQ. These analytes will be further evaluated in Table 6.8.

Acronyms and Abbreviations:

CASRN = Chemical Abstracts Service Registry Number
DAF = Dilution attenuation factor
DL = Detection limit
DRO = Diesel-range organics
EPA = United States Environmental Protection Agency
FWDA = Fort Wingate Depot Activity
HQ = Hazard quotient
LOD = Limit of detection
LOQ = Limit of quantitation
mg/kg = Milligram per kilogram
N/A = Not applicable
NMED = New Mexico Environment Department
NS = No screening value available
RCRA - Resource Conservation and Recovery Act

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Table 6.8 – Evaluation of Analytes with LOQs Greater than Screening Levels

Analyte	Screening Level Surrogate	Analytical Method [1]	CASRN	Units	Background Value [2]	Lowest Human Health Screening Level Direct Contact [3]	Highest Human Health Screening Level - Groundwater Protection [4]	Most Protective Ecological Screening Level [5]	Lowest Screening Level (Human Health or Ecological)	Lowest Screening Level for Risk Screening Evaluation Source	Achievable Laboratory Limits			Is this an issue (Y or N)?	Justification
											LOQ	LOD	DL		
TAL Metals															
Thallium	-	SW6020B	7440-28-0	mg/kg	0.213	0.782	2.85	0.0500	0.0500	Eco	0.1	0.06	0.0177	N	LOQ met for direct contact screening level
Semi-Volatile Organic Compounds															
2,2-Oxybis(1-chloropropane)	-	SW8270E	108-60-1	mg/kg	N/A	99.3	0.0475	NS	0.0475	Soil to GW SL	0.33	0.067	0.023	N	LOQ met for direct contact screening level
2,4-Dinitrophenol	-	SW8270E	51-28-5	mg/kg	N/A	123	0.669	NS	0.669	Soil to GW SL	1.6	1	0.333	N	LOQ met for direct contact screening level
2,4-Dinitrotoluene	-	SW8270E	121-14-2	mg/kg	N/A	17.1	0.0492	6.00	0.0492	Soil to GW SL	0.33	0.133	0.066	N	LOQ met for direct contact screening level
2,6-Dinitrotoluene	-	SW8270E	606-20-2	mg/kg	N/A	3.56	0.0102	16.10	0.0102	Soil to GW SL	0.33	0.067	0.028	N	LOQ met for direct contact screening level
3,3'-Dichlorobenzidine	-	SW8270E	91-94-1	mg/kg	N/A	11.8	0.124	NS	0.124	Soil to GW SL	1.6	0.267	0.09	N	LOQ met for direct contact screening level
3-Nitroaniline	4-Nitroaniline	SW8270E	99-09-2	mg/kg	N/A	250	0.316	NS	0.316	Soil to GW SL	1.6	0.267	0.073	N	LOQ met for direct contact screening level
4,6-Dinitro-2-Methylphenol	-	SW8270E	534-52-1	mg/kg	N/A	4.93	0.0398	NS	0.0398	Soil to GW SL	1.6	1	0.33	N	LOQ met for direct contact screening level
4-Chloroaniline	-	SW8270E	106-47-8	mg/kg	N/A	27	0.0311	NS	0.0311	Soil to GW SL	0.33	0.267	0.0819	N	LOQ met for direct contact screening level
4-Nitroaniline	-	SW8270E	100-01-6	mg/kg	N/A	250	0.316	NS	0.316	Soil to GW SL	1.6	0.267	0.0725	N	LOQ met for direct contact screening level
Bis(2-Chloroethoxy)Methane	-	SW8270E	111-91-1	mg/kg	N/A	190	0.27	NS	0.27	Soil to GW SL	0.33	0.067	0.023	N	LOQ met for direct contact screening level
Bis(2-Chloroethyl)Ether	-	SW8270E	111-44-4	mg/kg	N/A	1.95	0.000605	NS	0.000605	Soil to GW SL	0.33	0.033	0.0166	N	LOQ met for direct contact screening level
Bis(2-Chloroisopropyl)Ether	-	SW8270E	108-60-1	mg/kg	N/A	99.3	0.0475	NS	0.0475	Soil to GW SL	0.33	0.067	0.023	N	LOQ met for direct contact screening level
Hexachlorobenzene	-	SW8270E	118-74-1	mg/kg	N/A	3.33	0.189	10	0.189	Soil to GW SL	0.33	0.067	0.029	N	LOQ met for direct contact screening level
Hexachlorobutadiene	-	SW8270E	87-68-3	mg/kg	N/A	52.1	0.0413	NS	0.0413	Soil to GW SL	0.33	0.033	0.01	N	LOQ met for direct contact screening level
Hexachlorocyclopentadiene	-	SW8270E	77-47-4	mg/kg	N/A	52.1	0.0413	NS	0.0413	Soil to GW SL	1.7	0.333	0.111	N	LOQ met for direct contact screening level
Hexachloroethane	-	SW8270E	67-72-1	mg/kg	N/A	43.1	0.032	NS	0.032	Soil to GW SL	0.33	0.067	0.0213	N	LOQ met for direct contact screening level
Nitrobenzene	-	SW8270E	98-95-3	mg/kg	N/A	60.4	0.0144	53.6	0.0144	Soil to GW SL	0.33	0.067	0.022	N	LOQ met for direct contact screening level
N-Nitroso-Di-N-Propylamine	-	SW8270E	621-64-7	mg/kg	N/A	0.78	0.00162	NS	0.00162	Soil to GW SL	0.33	0.167	0.068	N	LOQ met for direct contact screening level
Pentachlorophenol	-	SW8270E	87-86-5	mg/kg	N/A	9.85	0.152	5	0.152	Soil to GW SL	1.6	1	0.33	N	LOQ met for direct contact screening level
Polycyclic Aromatic Hydrocarbons															
Acenaphthene	-	SW8270E	83-32-9	mg/kg	N/A	3480	83	0.250	0.250	Eco	0.33	0.033	0.0103	N	LOQ met for direct contact screening level
Dibenz(a,h)anthracene	-	SW8270E	53-70-3	mg/kg	N/A	0.153	1.97	12.1	0.153	Direct Contact	0.33	0.067	0.019	**Y**	**When using Method SW8270E, the LOQ is greater than the direct contact screening level. If analyte is a COPC or COPEC for a particular SWMU/AOC, then it is recommended that PAHs be analyzed via Method SW8270E-SIM to reduce the LOQ to below the direct contact screening level.**
Naphthalene	-	SW8270E	91-20-3	mg/kg	N/A	22.6	0.0583	1.00	0.0583	Soil to GW SL	0.33	0.067	0.031	N	LOQ met for direct contact screening level

Table 6.8 – Evaluation of Analytes with LOQs Greater than Screening Levels

Analyte	Screening Level Surrogate	Analytical Method (1)	CASRN	Units	Background Value (2)	Lowest Human Health Screening Level Direct Contact (3)	Highest Human Health Screening Level - Groundwater Protection (4)	Most Protective Ecological Screening Level (5)	Lowest Screening Level (Human Health or Ecological)	Lowest Screening Level for Risk Screening Evaluation Source	Achievable Laboratory Limits			Is this an issue (Y or N)?	Justification
											LOQ	LOD	DL		
Volatile Organic Compounds															
1,1,2,2-Tetrachloroethane	-	SW8260D	79-34-5	mg/kg	N/A	7.98	0.00481	403	0.00481	Soil to GW SL	0.005	0.0008	0.00029	N	LOQ met for direct contact screening level
1,2,3-Trichloropropane	-	SW8260D	96-18-4	mg/kg	N/A	0.051	0.0000582	NS	0.0000582	Soil to GW SL	0.005	0.0008	0.00022	N	LOQ met for direct contact screening level
1,2-Dibromo-3-Chloropropane	-	SW8260D	96-12-8	mg/kg	N/A	0.0858	0.00139	NS	0.00139	Soil to GW SL	0.01	0.009	0.00366	N	LOQ met for direct contact screening level
1,2-Dibromoethane	-	SW8260D	106-93-4	mg/kg	N/A	0.672	0.000352	NS	0.000352	Soil to GW SL	0.005	0.0016	0.00052	N	LOQ met for direct contact screening level
Explosives															
1,3-Dinitrobenzene	-	SW8330B	99-65-0	mg/kg	N/A	6.30	0.0353	1.03	0.0353	Soil to GW SL	0.1	0.04	0.0166	N	LOQ met for direct contact screening level
2,4-Dinitrotoluene	-	SW8330B	121-14-2	mg/kg	N/A	17.1	0.0492	6.00	0.0492	Soil to GW SL	0.1	0.04	0.0147	N	LOQ met for direct contact screening level
2,6-Dinitrotoluene	-	SW8330B	606-20-2	mg/kg	N/A	3.56	0.0102	16.1	0.0102	Soil to GW SL	0.1	0.04	0.0191	N	LOQ met for direct contact screening level
2-Amino-4,6-Dinitrotoluene	-	SW8330B	35572-78-2	mg/kg	N/A	7.70	0.0230	14.0	0.0230	Soil to GW SL	0.1	0.07	0.0329	N	LOQ met for direct contact screening level
2-Nitrotoluene	-	SW8330B	88-72-2	mg/kg	N/A	31.6	0.0458	81.0	0.0458	Soil to GW SL	0.2	0.1	0.0472	N	LOQ met for direct contact screening level
3-Nitrotoluene	-	SW8330B	99-08-1	mg/kg	N/A	6.16	0.0250	97.3	0.0250	Soil to GW SL	0.2	0.15	0.064	N	LOQ met for direct contact screening level
4-Amino-2,6-Dinitrotoluene	-	SW8330B	19406-51-0	mg/kg	N/A	7.64	0.0230	33.0	0.0230	Soil to GW SL	0.1	0.07	0.0299	N	LOQ met for direct contact screening level
Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX)	-	SW8330B	121-82-4	mg/kg	N/A	83.1	0.0593	11.2	0.0593	Soil to GW SL	0.2	0.1	0.043	N	LOQ met for direct contact screening level
Nitrobenzene	-	SW8330B	98-95-3	mg/kg	N/A	60.4	0.0144	53.6	0.0144	Soil to GW SL	0.3	0.2	0.085	N	LOQ met for direct contact screening level
Nitroglycerin	-	SW8330B	55-63-0	mg/kg	N/A	6.16	0.0136	21.0	0.0136	Soil to GW SL	2	0.7	0.215	N	LOQ met for direct contact screening level
PCBs															
Aroclor 1221	-	SW8082A	11104-28-2	mg/kg	N/A	1.81	0.0143	NS	0.0143	Soil to GW SL	0.094	0.06	0.0312	N	LOQ met for direct contact screening level
Aroclor 1232	-	SW8082A	11141-16-5	mg/kg	N/A	1.86	0.0143	NS	0.0143	Soil to GW SL	0.066	0.0213	0.0102	N	LOQ met for direct contact screening level

Notes:
1. Analytical Method - EPA Test Methods for Evaluating Solid Waste latest edition (the most current version of each method the laboratory is accredited to will be used).
2. Selected FWDA background values are presented in Table 8-1 from Soil Background Study and Data Evaluation Report (Shaw, 2010), except arsenic and antimony:
3. The lowest of the NMED direct contact soil screening levels for residents, industiral/occupational workers, and construction workers (or lowest soil EPA RSL [target excess cancer risk level of 1x10-5 or hazard quotient of 1.0] if there is no NMED screening level)
4. The highest SL-SSL for a chemical based on a DAF of 20 is listed in Table A-1 of the Humam Health NMED Risk Assessment Guidance (NMED, 2022). This approach maintains the conservative approach of the SL-SSL methodology, is protective of groundwater quality under a wide range of site conditions and complies with the groundwater protection requirements in 20.6.2 NMAC (NMED, 2022).
5. Lowest Ecological Screening Level of plants, Deer Mouse, and Horned Lark via NMED Risk Assessment Guidance for Site Investigations and Remediation, Volume II - Soil Screening Guidance for Ecological Risk Assessments, Appendix C. March 2017 Revised.

Acronyms and Abbreviations:
CASRN = Chemical Abstracts Service Registry Number
DL = Detection limit
LOD = Limit of detection
LOQ = Limit of quantitation
mg/kg = Milligram per kilogram
SIM = Selected ion mode
SL = Screening Level

FIGURES

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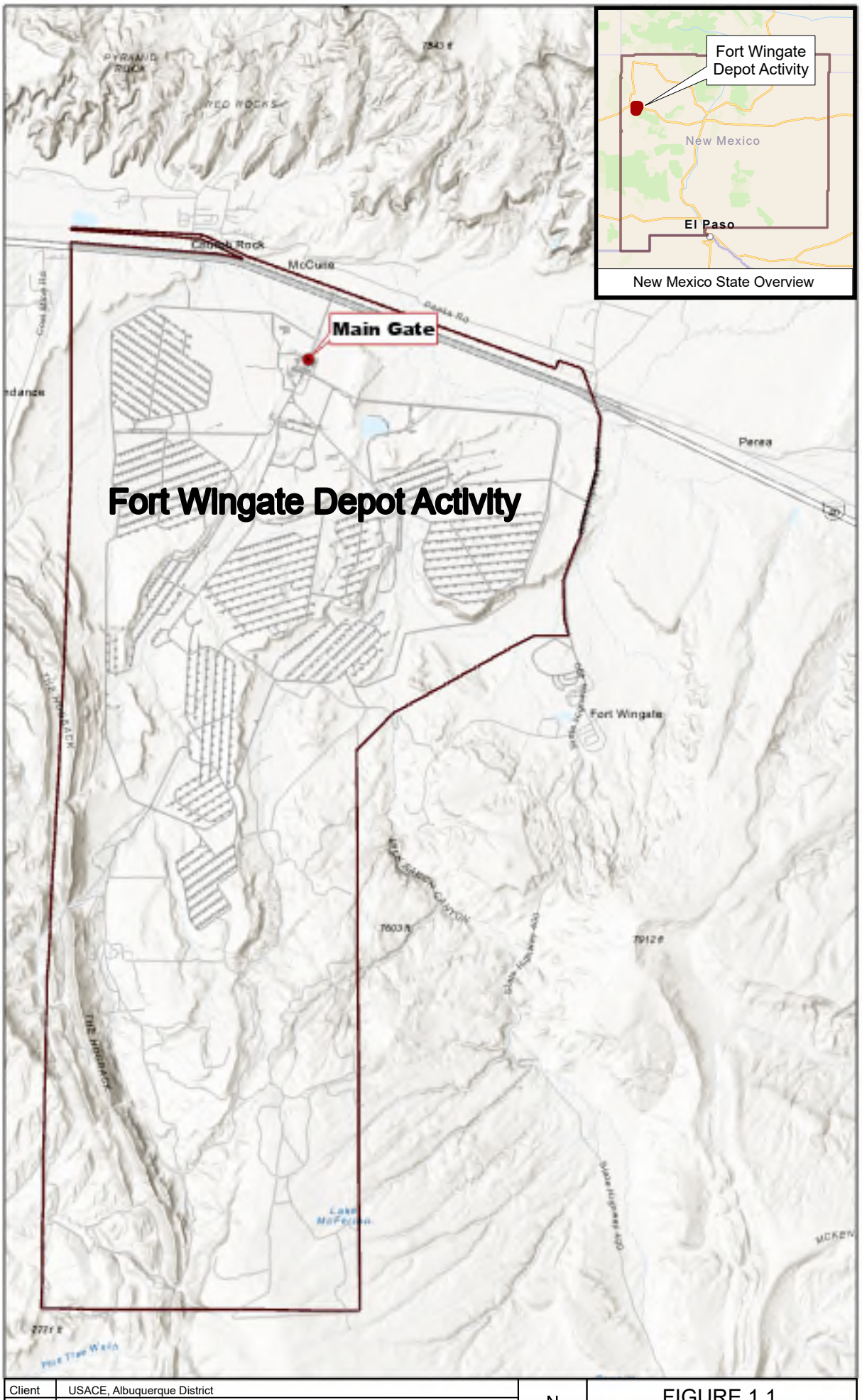

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Notes	Supplemental RCRA Facility Investigation Work Plan Parcel 7 - Fort Wingate Depot Activity McKinley County, NM			
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Basemap: Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, USFWS, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies,		PM	CR	1/8/2025

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FIGURE 1.1

Facility Location Map

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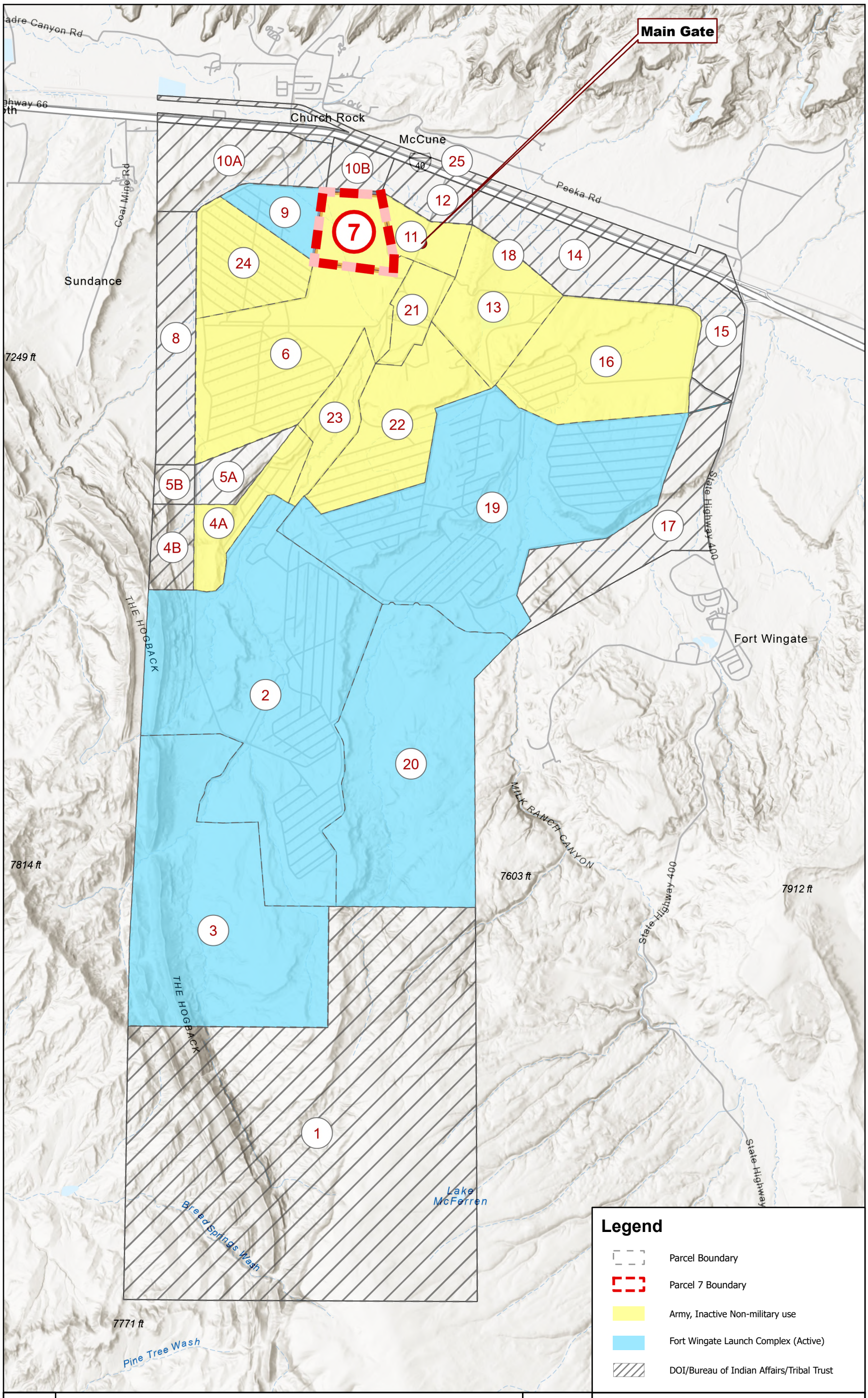

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Notes	Supplemental RCRA Facility Investigation Work Plan Parcel 7 - Fort Wingate Depot Activity McKinley County, NM			
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Basemap: Esri, NASA, NGA, USGS, Sources: Esri, TomTom, Garmin, FAO, NOAA, USGS, © OpenStreetMap contributors, and		CR	CR	11/6/2025

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FIGURE 1.2

Parcel Map

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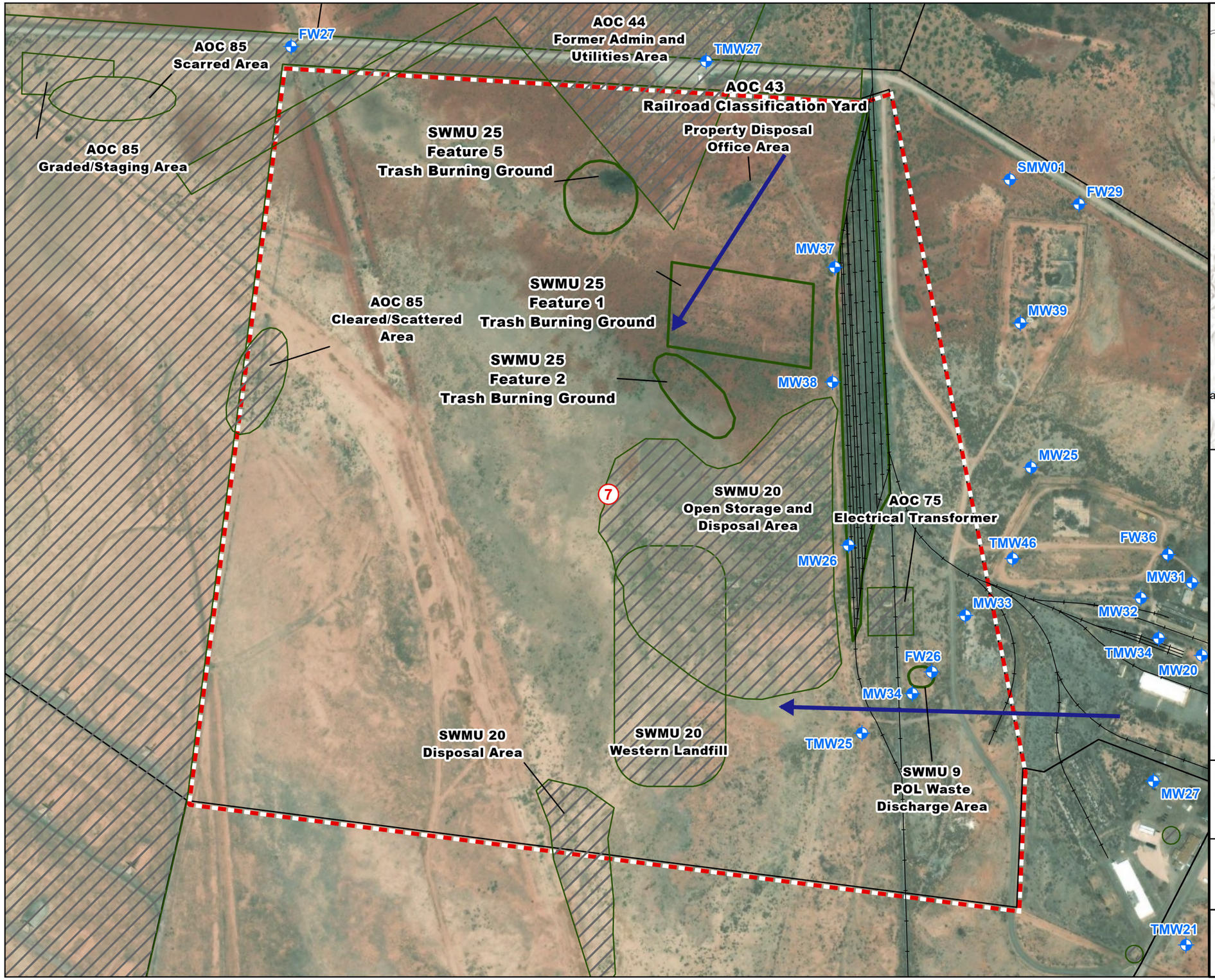

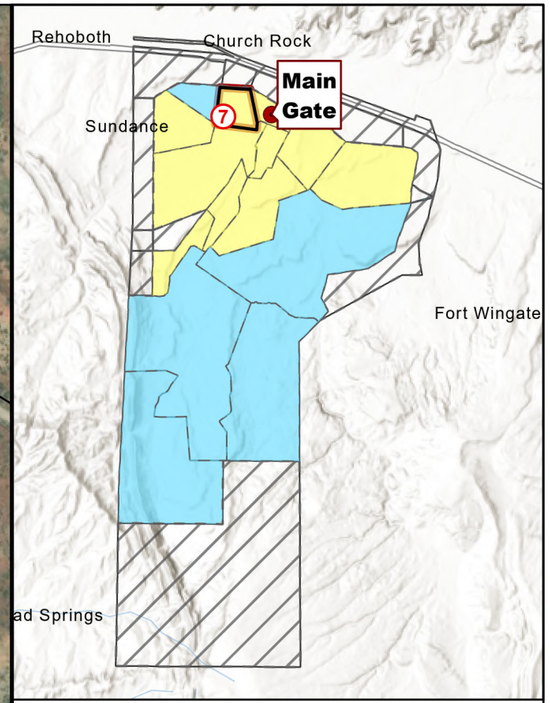

Legend

- Existing Groundwater Monitoring Well
- Approximate Groundwater Flow Direction (Fall 2019)
- AOC/SWMU Boundary
- AOC/SWMU Boundary (not addressed in this RFI Work Plan)
- Parcel 7 Boundary

0 250 500 Feet

N

Supplemental RCRA Facility Investigation Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 1.3

Parcel 7 AOC and SWMU Locations

Client	USACE, Albuquerque District	GIS by	AM	11/17/2025
		Checked by	LR	11/17/2025
		PM	CR	11/17/2025

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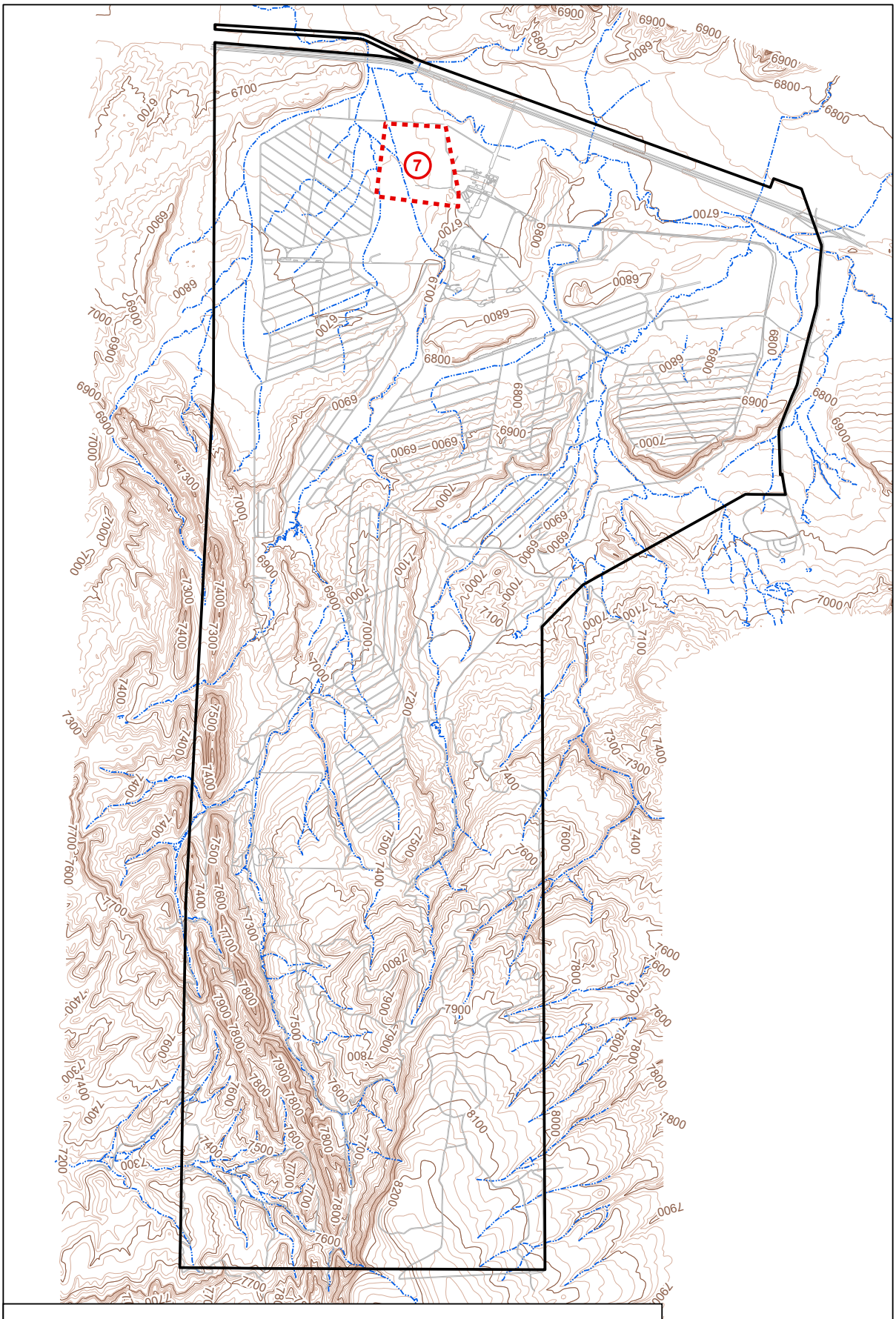

Legend

- 100-Foot Topographic Contour Line
- 20-Foot Topographic Contour Line
- Arroyo
- FWDA Boundary
- FWDA Roads
- Parcel Boundary
- 7 Parcel Number

Client	USACE, Albuquerque District			
Notes	Supplemental RCRA Facility Investigation Work Plan, Parcel 7 - Fort Wingate Depot Activity McKinley County, NM			
Revised	3/4/2024	GIS by	AM	3/4/2024
Scale	1:50,000	Checked by	LR	3/4/2024
Source: Amec Foster Wheeler, 2018		PM	CR	3/4/2024

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FIGURE 2.1

Facility-Wide Topographic Map

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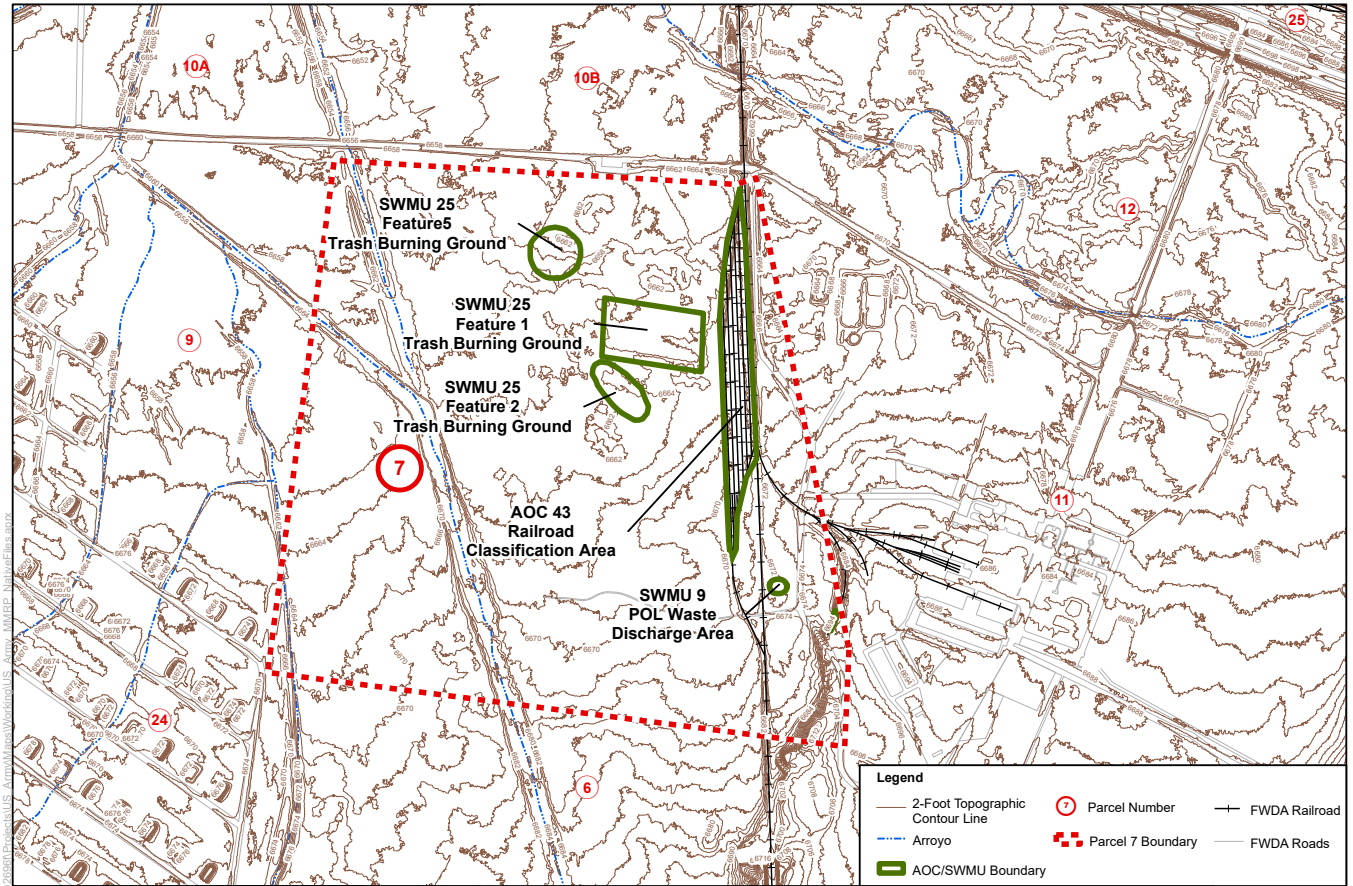

Client	USACE, Albuquerque District	GIS by	AM	3/4/2024
		Checked by	LR	3/4/2024
		PM	CR	3/4/2024

0 400 800 Feet

Source: AMEC Foster Wheeler, 2018

N

Supplemental RCRA Facility Investigation Work Plan
Parcel 7 - Fort Wingate Depot Activity
McKinley County, New Mexico

Parcel 7 Topographic Map

FIGURE **2.2**

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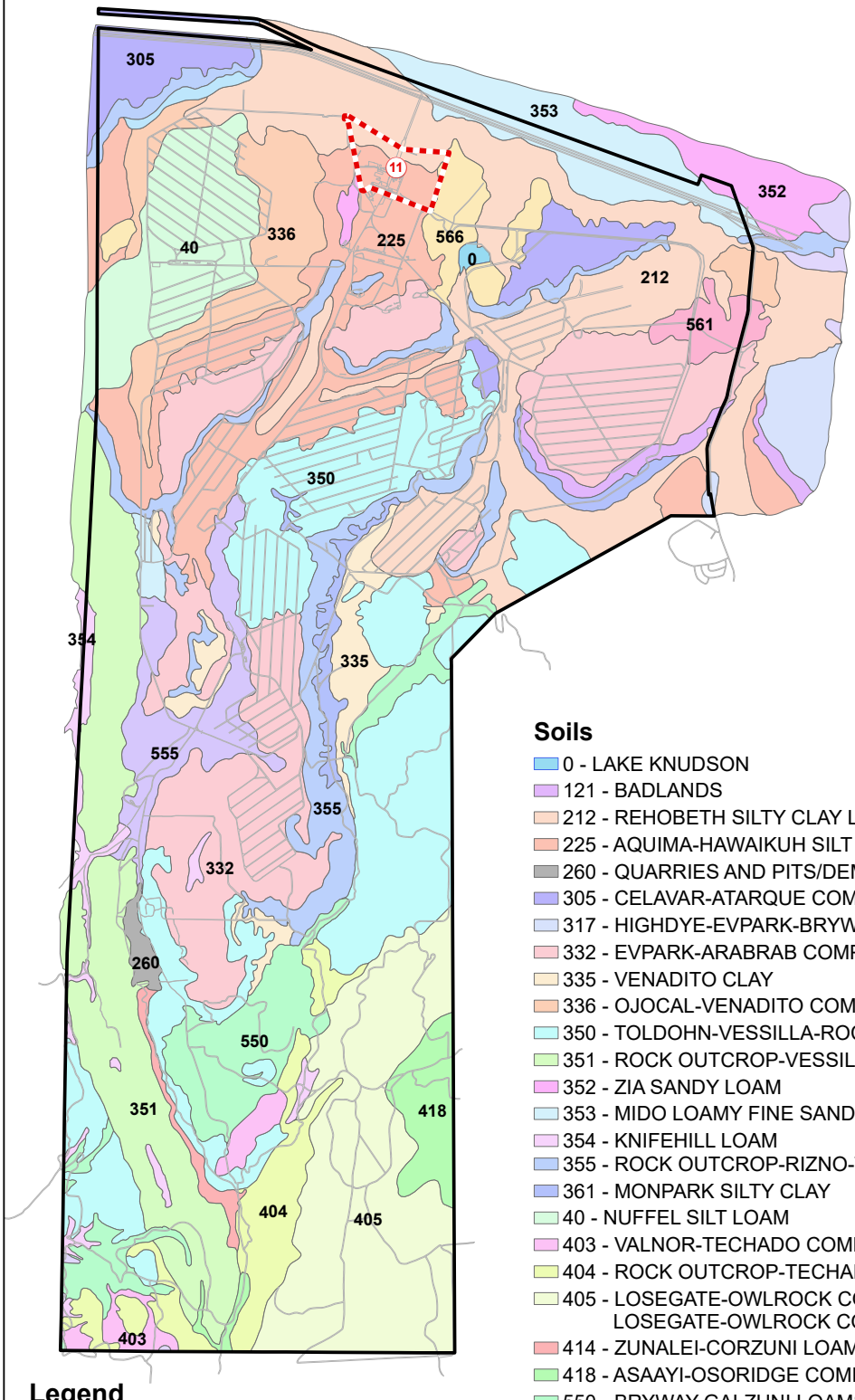

Legend

- FWDA Boundary
- FWDA Roads
- 11 Parcel Number
- Parcel 11 Boundary

Soils

- 0 - LAKE KNUDSON
- 121 - BADLANDS
- 212 - REHOBETH SILTY CLAY LOAM
- 225 - AQUIMA-HAWAIKUH SILT LOAM
- 260 - QUARRIES AND PITS/DEMOLITION AREA
- 305 - CELAVAR-ATARQUE COMPLEX
- 317 - HIGHDYE-EVPARK-BRYWAY COMPLEX
- 332 - EVPARK-ARABRAB COMPLEX
- 335 - VENADITO CLAY
- 336 - OJOCAL-VENADITO COMPLEX
- 350 - TOLDOHN-VESSILLA-ROCK OUTCROP COMPLEX
- 351 - ROCK OUTCROP-VESSILLA COMPLEX
- 352 - ZIA SANDY LOAM
- 353 - MIDO LOAMY FINE SAND
- 354 - KNIFEHILL LOAM
- 355 - ROCK OUTCROP-RIZNO-TEKAPO COMPLEX
- 361 - MONPARK SILTY CLAY
- 40 - NUFFEL SILT LOAM
- 403 - VALNOR-TECHADO COMPLEX
- 404 - ROCK OUTCROP-TECHADO-STOZUNI COMPLEX
- 405 - LOSEGATE-OWLROCK COMPLEX; LOSEGATE-OWLROCK COMPLEX
- 414 - ZUNALEI-CORZUNI LOAMY FINE SANDS
- 418 - ASAAYI-OSORIDGE COMPLEX
- 550 - BRYWAY-GALZUNI LOAMS
- 555 - PARKELEI-EVPARK FINE SANDY LOAM
- 561 - FLUGLE-PLUMASANO ASSOCIATION
- 565 - PLUMASANO - ROCK OUTCROP COMPLEX
- 566 - BAMAC EXTREMELY GRAVELLY SAND/LOAM
- UNKNOWN - UNKNOWN

Client	USACE, Albuquerque District			
Notes	Supplemental RCRA Facility Investigation Work Plan, Parcel 7 - Fort Wingate Depot Activity McKinley County, NM			
Revised	3/4/2024	GIS by	AM	3/4/2024
Scale	1:56,560	Checked by	LR	3/4/2024
Source: Amec Foster Wheeler, 2018		PM	CR	3/4/2024

N

FIGURE 2.3

Facility-Wide Soils Map

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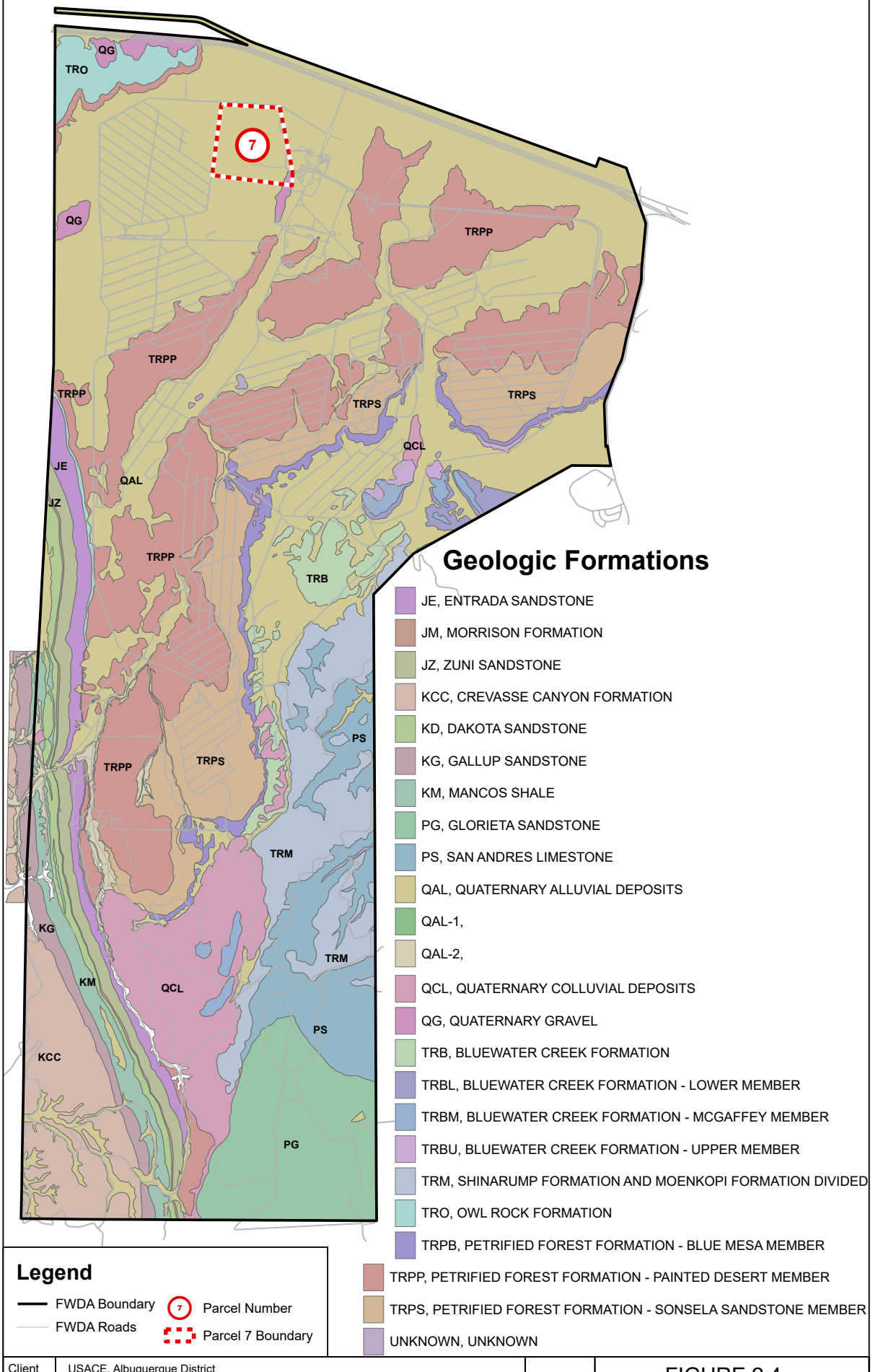

Client	USACE, Albuquerque District			
Notes	Supplemental RCRA Facility Investigation Work Plan, Parcel 7 - Fort Wingate Depot Activity McKinley County, NM			
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Scale	1:50,000	Checked by	LR	3/4/2024
Source: AMEC Foster Wheeler, 2018		PM	CR	3/4/2024

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FIGURE 2.4

Facility-Wide Geologic Map

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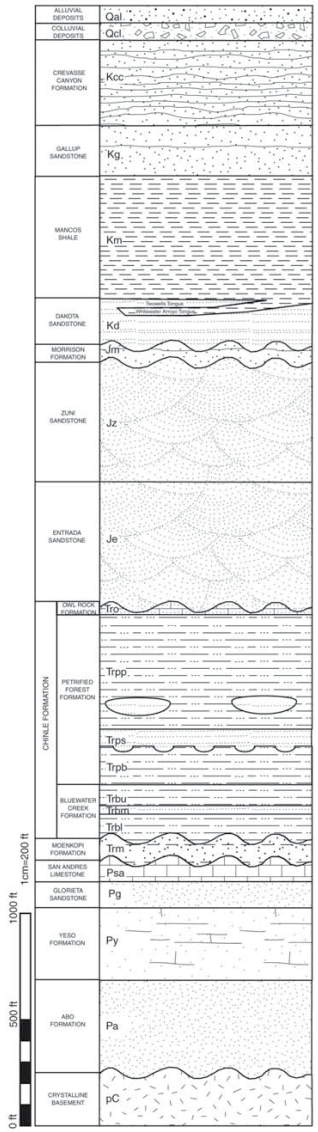

Description of Units

Qal - Alluvial deposits (Quaternary); sand, gravel, and clay in young valleys and drainages

Qcl - Colluvial deposits (Quaternary); land-slides, and cobble deposits in young valleys and on steep slopes

Kcc - Crevasse Canyon Formation (Upper Cretaceus, 88 Ma); mudstone, shale, very fine- to medium-grained sandstone, carbonaceous shale, and thin lenticular coal beds; outcrops in southwest corner only; <400 feet thick

Kg - Gallup Sandstone (Upper Cretaceus, 90 Ma); tan to pale-orange, medium-grained, well-sorted calcareous-sandstone, silty-sandstone, and coaly-carbonaceous layers; three prominent ridge forming sandstone layers (<20') are separated by silty, and carbonaceous intervals (<80'); sandstone layers have only minor amounts of cement and minimal matrix material resulting in high apparent permeability; <220 feet thick

Km - Mancos Shale (Upper Middle Cretaceus, 97-90 Ma); light- to dark-gray and mudstone, silty-mudstone, and shale; minor amounts of lenticular sandy-siltstone, limestone, and calcerous-sandstone present in upper portions; sandy layers have abundant cement and ultrafine matrix resulting in very low apparent-permeability; the Whitewater Arroyo Tongue of the Mancos Shale is intertounged with and underlies the Twowells Tongue of the Dakota Sandstone, abundant fossil corrals and cephalopods in Whitewater Arroyo Tongue; <600 feet thick excluding the Whitewater Arroyo Tongue which varies in thickness from 0-80 feet thick

Kd - Dakota Sandstone (Upper Middle Cretaceus, 97-90 Ma); tan to pale-yellow, fine- to medium-grained, sub-angular to well-rounded, grain-supported sandstone; small amounts of matrix and grain-support result in a very high apparent-permeability; Twowells Tongue of Dakota Sandstone is intertongued with and overlies the Whitewater Arroyo Tongue of the Mancos Shale; basal contact of Dakota Sandstone unconformably overlies an irregular erosional surface developed in the Morrison Formation; <230-310 feet thick including the Whitewater Arroyo Tongue

Jm - Morrison Formation (Upper Jurassic, 160-145 Ma); grayish-white to pale-orange, subangular to well rounded, fine- to coarse-grained sandstone and conglomeratic-sandstone; trough cross stratification locally; clay-rich fine-grained intervals present near upper contact; highly variable apparent-permeability; variable thickness possibly due to bedding-plane slip along monoclinal fold axis; <65 feet thick in northern part of base, thinning to <20 feet to the south

Jz - Zuni Sandstone (Middle Jurassic, 170-165 Ma); white, pink, and reddish-orange, well-rounded, clast-supported, fine- to very-fine-grained sandstone and silty-sandstone; horizontal color banding common; crossbedding in relatively thin sets (compared to Entrada Sandstone); siltier intervals correlate to shallow slopes and cleaner interval correlate to steep slopes; very-high apparent-permeability; <620 feet thick

Je - Entrada Sandstone (Middle Jurassic, 170-165 Ma); red, and pinkish-gray, moderately rounded, matrix supported, fine- to medium-grained sandstone; large-scale crossbedding; less competent than Zuni Sandstone; calcareous cement; very-high apparent-permeability; <650 feet thick

Tro - Owl Rock Formation (Upper Triassic, 225-210 Ma); white, grayish-pink, and orange, crystalline-limestone, sandy-limestone, and calcerous-sandstone; variable thickness possibly due to bedding-plane slip along monoclinal fold axis; <30 feet thick

Trpp - Petrified Forest Formation, Painted Desert Member (Middle Triassic, 225-210 Ma); purplish-red, orangish-red and rust colored, mudstone, siltstone, sandstone, and sandstone-conglomerate; sandstone intervals (<20') have tabular and trough cross beds, abundant ultrafine matrix, and are generally dirty resulting in low apparent-permeability; abundant 1-2cm greenish gray calcrete nodules present forming a distinctive mottled or speckled surface; shallow (<6') channel deposits with intraformational conglomerates containing mudstone and carbonate clasts; lenticular bodies of sandstone with similar lithology to the Sonsela Sandstone are laterally discontinuous; <600 feet thick

Trps - Petrified Forest Formation, Sonsela Sandstone Member (Middle Triassic, 225-210 Ma); yellow, tan, and olive-colored, well rounded, clast-supported, medium- to coarse-grained sandstone and conglomeratic sandstone; conglomeratic intervals containing intraformational (mudstone, carbonate) and extraformational (chert, quartzite) clasts; thin crossbedding common; minimal matrix and grain-support result in very-high apparent-permeability; <100 feet thick, highly variable thickness typical of large-scale channel deposits

Trpb - Petrified Forest Formation, Blue Mesa Member (Middle Triassic, 230-225 Ma); purple, and purplish-red, mudstone, and muddy-sandstone; mudstones are smectitic; light-gray sandy-smectitic-siltstone interval (<8') serves as marker bed for the base of the Petrified Forest Formation; high quantity of ultrafine matrix results in a very-low apparent-permeability; petrified wood very common in upper portions; <280 feet thick

Trbu - Bluewater Creek Formation, Upper Member (Upper Triassic, 230-225 Ma); pinkish-gray to reddish-brown siltstone and mudstone; calcrete nodules present locally; high silt and ultrafine matrix result in low apparent-permeability; <100 feet thick

Trbm - Bluewater Creek Formation, McGaffey Member (Upper Triassic, 230-225 Ma); white, pale-red and gray, medium-grained, ripple-laminated sandstone; color banding common; basal interval has carbonate-clast-conglomerate; calcareous cement; high apparent-permeability; <80 feet thick, highly variable thickness typical of large-scale channel deposits, locally not recognized

Trbl - Bluewater Creek Formation, Lower Member (Middle to Upper Triassic, 240-225 Ma); yellowish-gray, and reddish-brown mudstone and siltstone; calcrete nodules are present locally; low apparent-permeability; <115 feet thick

Trm - Shinarump Formation and Moenkopi Formation Undivided (Middle Triassic, 240-225 Ma); Shinarump Formation is purple and reddish-gray, motled chert- and quartzite-pebble-conglomerate and congloeratic-sandstone with reddish-brown matrix; Moenkopi is red, tan, and black calcareous-mottled-sandstone and calcareous-mudstone; massive to thinly-laminated and ripple-laminated siltstone and very fine-grained sandstones; 30-200 feet thick combined

Psa - San Andres Limestone (Middle Permian, 275-250 Ma); gray and white, fossiliferous, crystalline-limestone and dolomitic-limestone; locally absent due to karsting; <165 feet thick

Pg - Glorieta Sandstone (280-275 Ma); grayish-orange to orange, well-sorted, moderate- to well-rounded, fine- to medium-grained quartzose-sandstone; horizontal and low-angle crossbedding locally; <130 feet thick

Py - Yeso Formation (280-275 Ma); dark-orange to reddish-orange, very fine-grained gypsiferous-sandstone and silty-sandstone; three light-gray, dolomitic, carbonate beds (7') present in formation; <375 feet thick

Pa - Abo Formation (280-275 Ma); grayish-red, very fine-grained silty-sandstone; non-calcerous; flat-bedded; basal 3-12' are arkosic; <450 feet thick

pC - Precambrian Basement; typically granitic- to dioritic- igneous and metamorphic rocks

Source: AMEC Foster Wheeler, 2018
Reference: Thorstenson, D.J., and Beard, L.S., U.S. Geological Survey, 2000.

Supplemental RCRA Facility Investigation Work Plan
Parcel 7 - Fort Wingate Depot Activity McKinley County, New Mexico

Stratigraphic Column

Figure 2.5

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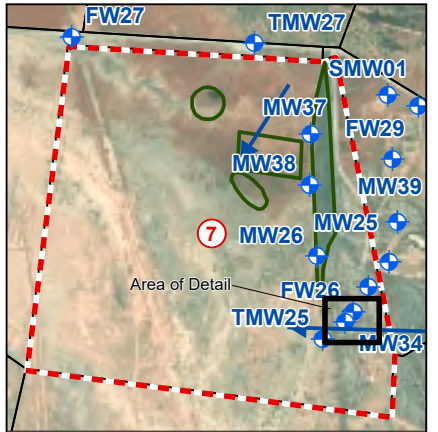

Parcel 7 Detail

Legend

- Previous Sample Location
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 3.2)
- Existing Groundwater Monitoring Well
- Approximate Groundwater Flow Direction (Fall 2019)
- Approximate Area of Visible Petroleum Contamination
- SWMU 9 Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 25 50 Feet

N

Supplemental RCRA Facility Investigation Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 3.1

SWMU 9 - POL Waste Discharge Area - Previous Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	11/19/2024
		Checked by	LR	11/19/2024
		PM	CR	11/19/2024

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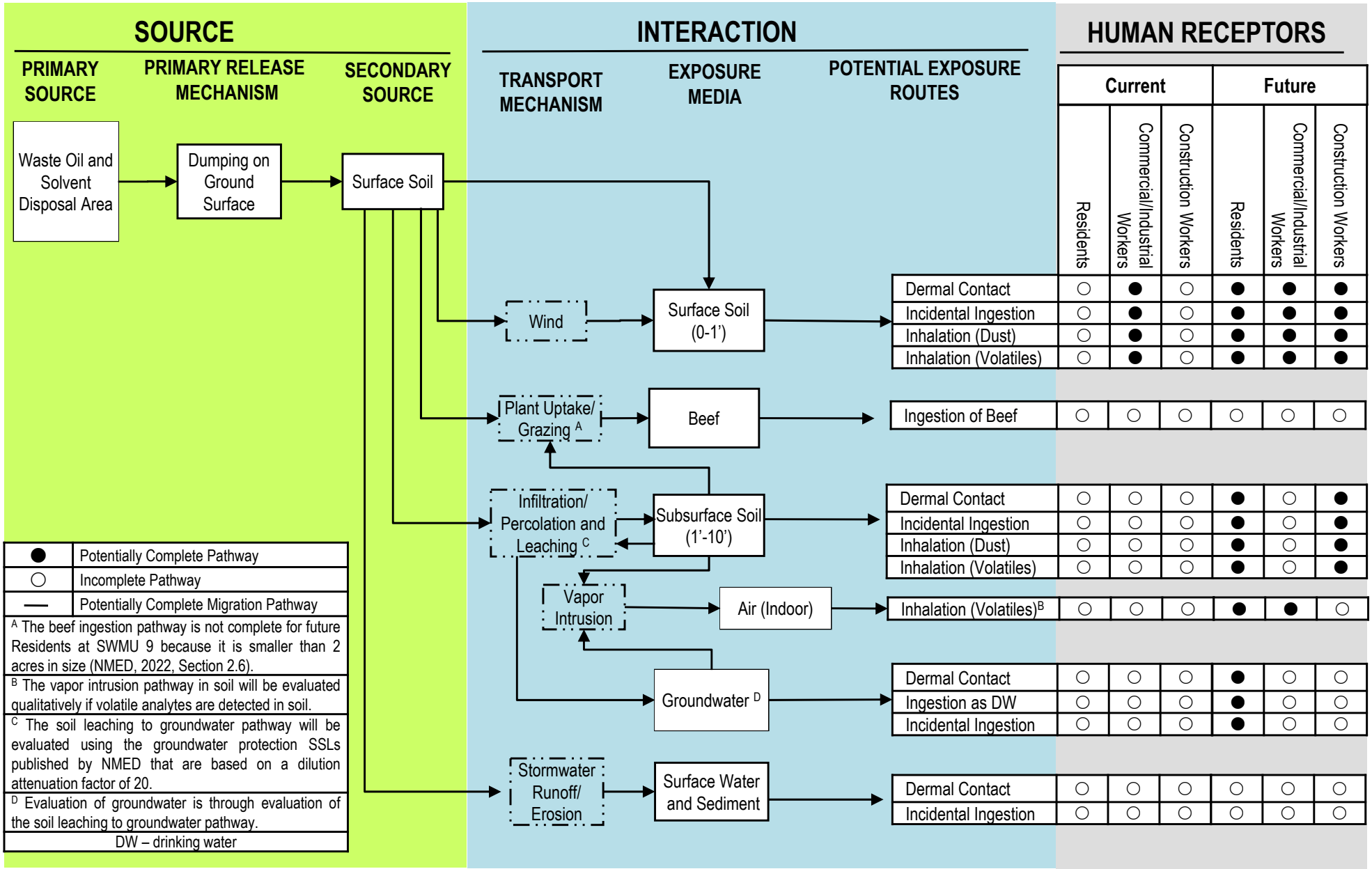
FIGURE 3.2
Preliminary Human Health Conceptual Site Model, SWMU 9

Site Name: Parcel 7, Fort Wingate Depot Activity, McKinley County, New Mexico

Completed By: Jessica Hinger, PARSONS ***Date Completed:*** February 16, 2024



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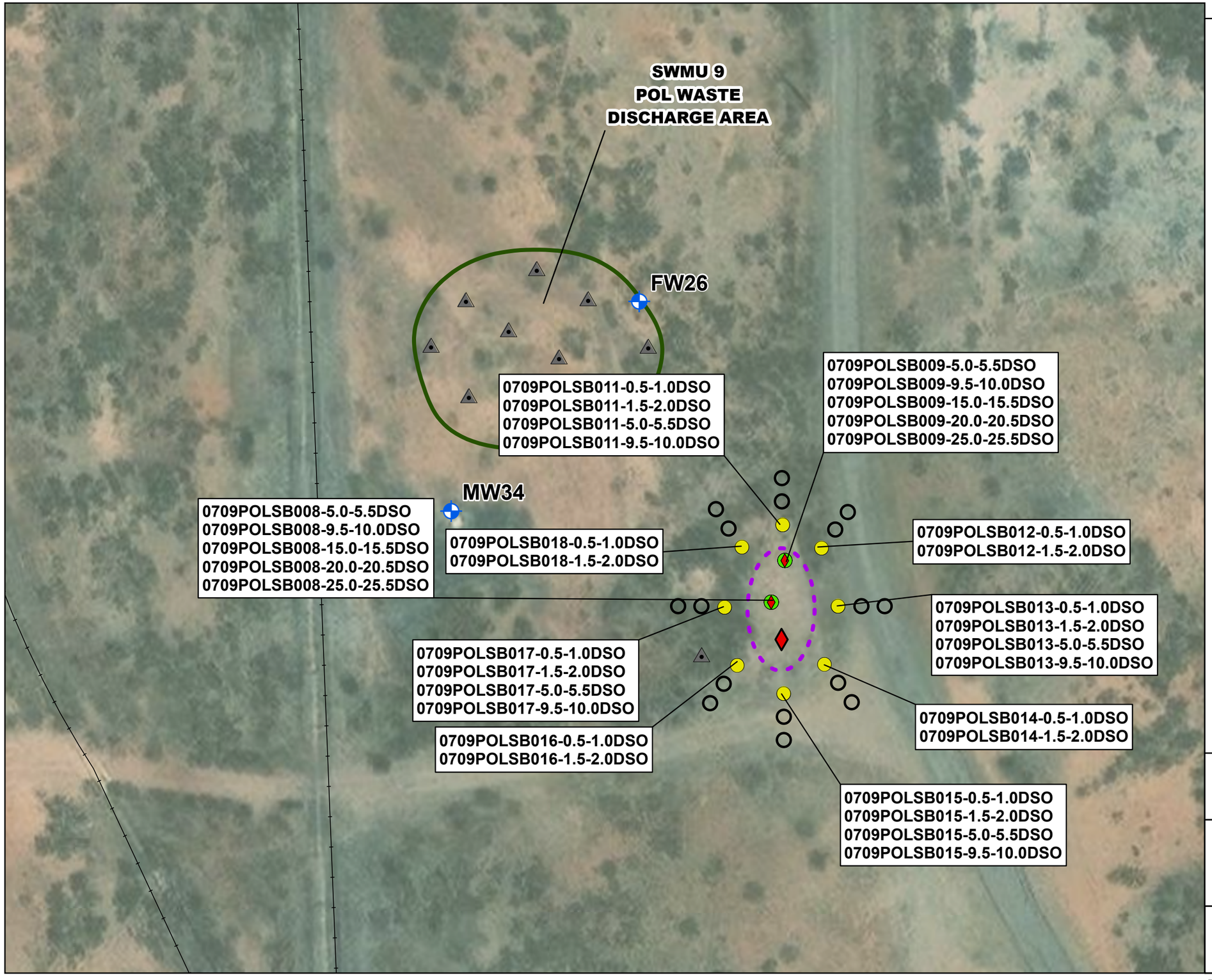

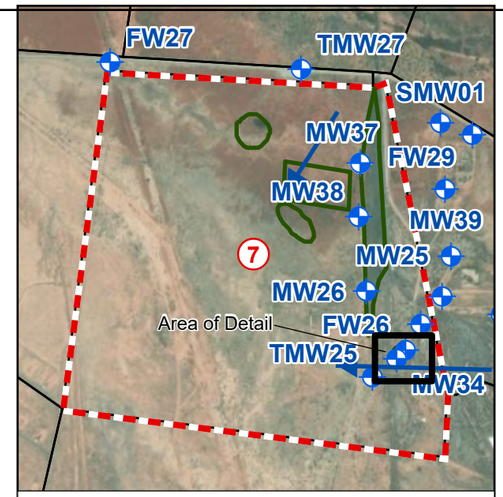

Parcel 7 Detail

Legend

- Previous Sample Location
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 3.2)
- Proposed Sample Location at Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 3.2)
- Proposed Sample Location
- Potential Step-Out Location If Needed to Define Extent
- Existing Groundwater Monitoring Well
- Approximate Area of Visible Petroleum Contamination
- Approximate Groundwater Flow Direction (Fall 2019)
- SWMU 9 Boundary
- Parcel 7 Boundary

Note:
SWMU = Solid Waste Management Unit

0 25 50 Feet

N

Supplemental RCRA Facility Investigation Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 3.3

SWMU 9 - POL Waste Discharge Area - Proposed Supplemental Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	11/26/2024
		Checked by	LR	11/26/2024
		PM	CR	11/26/2024

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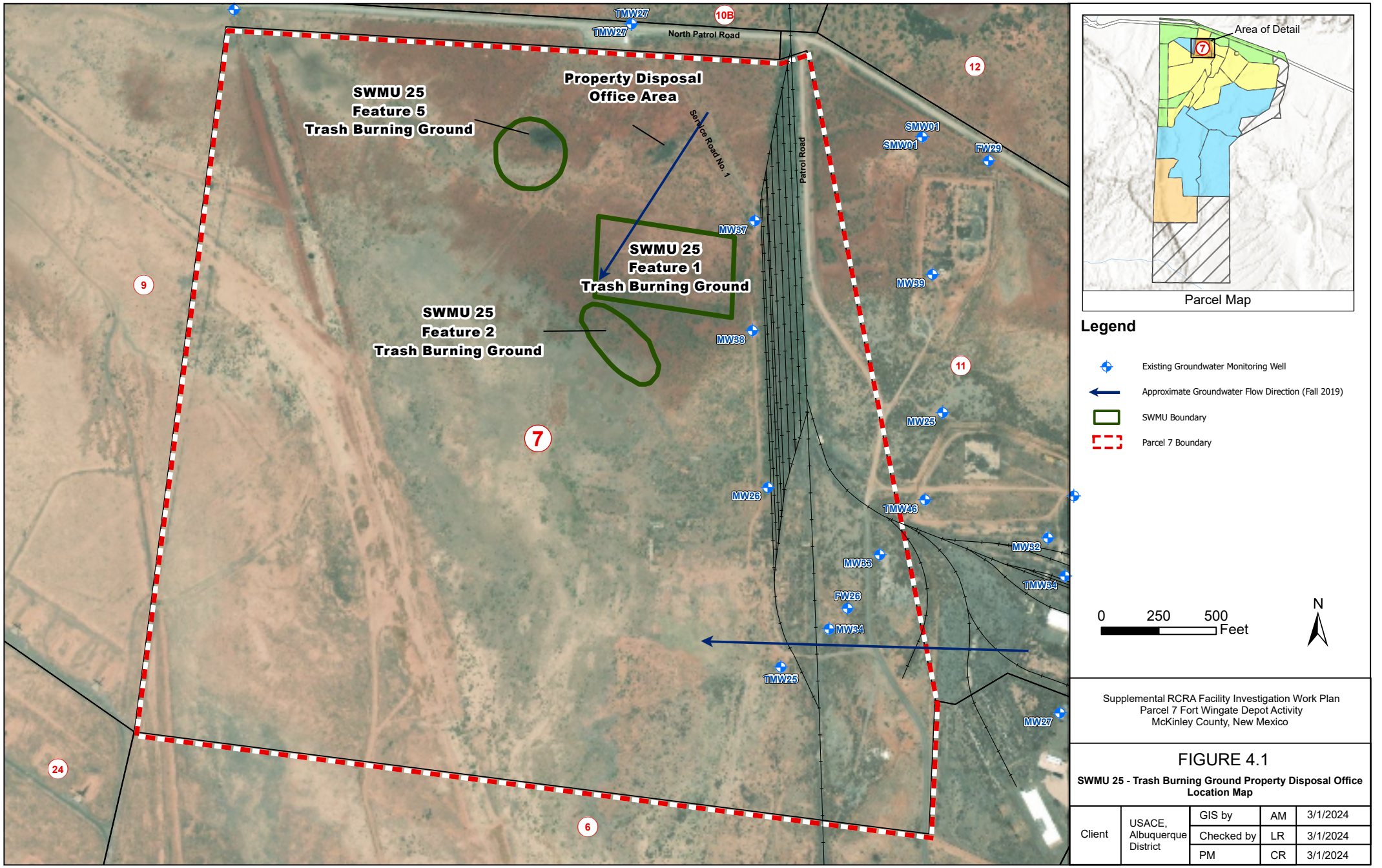

Supplemental RCRA Facility Investigation Work Plan
Parcel 7 Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.1

SWMU 25 - Trash Burning Ground Property Disposal Office Location Map

Client	USACE, Albuquerque District	GIS by	AM	3/1/2024
		Checked by	LR	3/1/2024
		PM	CR	3/1/2024

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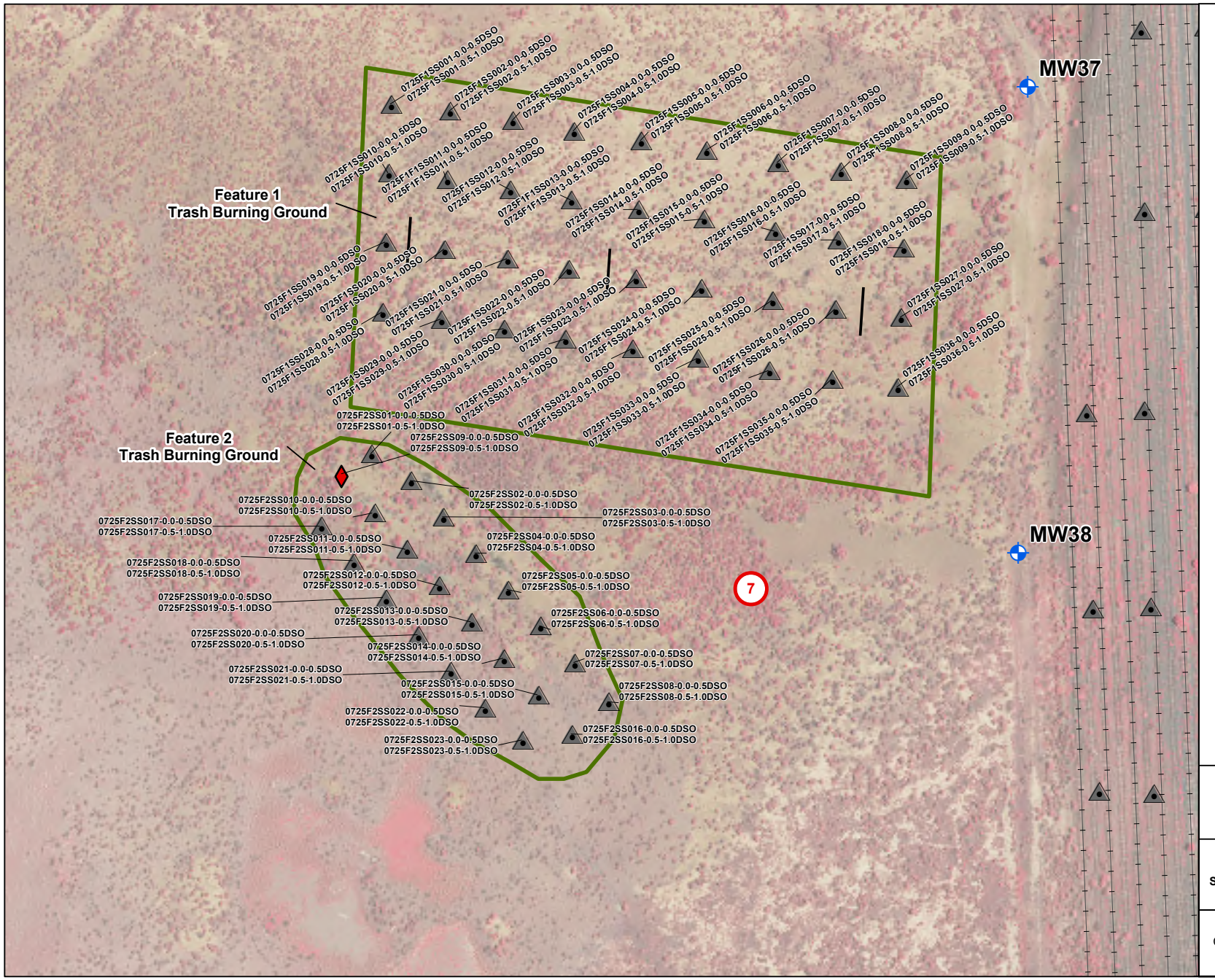

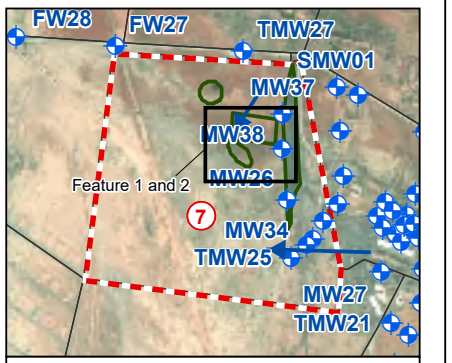

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 4.2)
- Existing Groundwater Monitoring Well
- General Area of Investigative Trenches
- SWMU Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 25 50 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.2

SWMU 25 - Trash Burning Ground Property Disposal Office Features 1 and 2 Previous Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/6/2025
		Checked by	LR	1/6/2025
		PM	CR	1/6/2025

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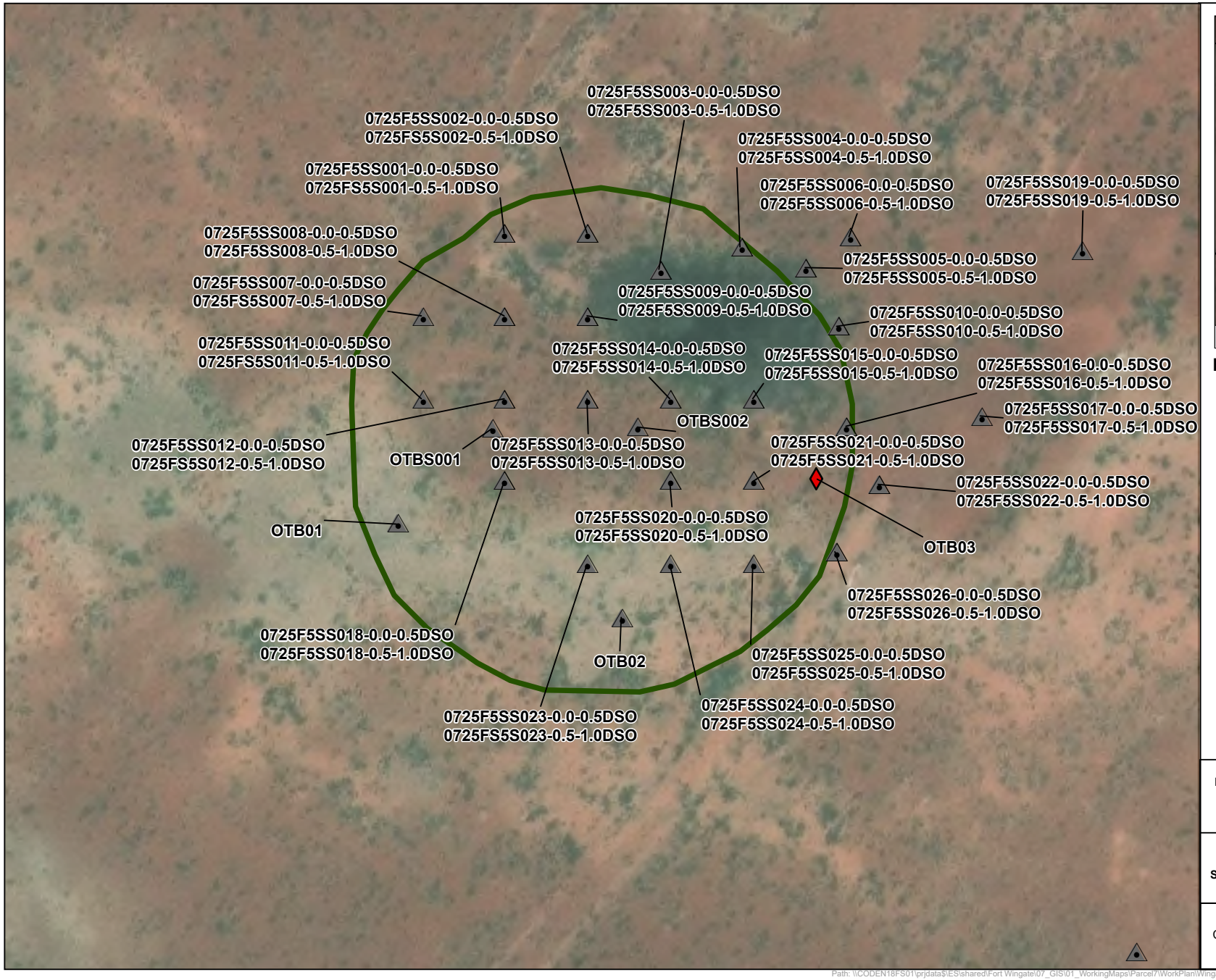

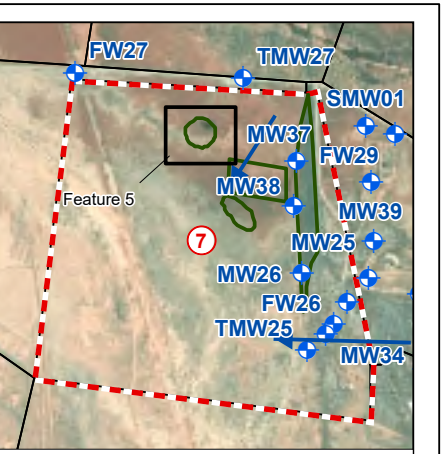

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 4.2)
- SWMU Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 25 50 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.3

SWMU 25 - Trash Burning Ground Property Disposal Office Feature 5 Previous Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/3/2025
		Checked by	LR	1/3/2025
		PM	CR	1/3/2025

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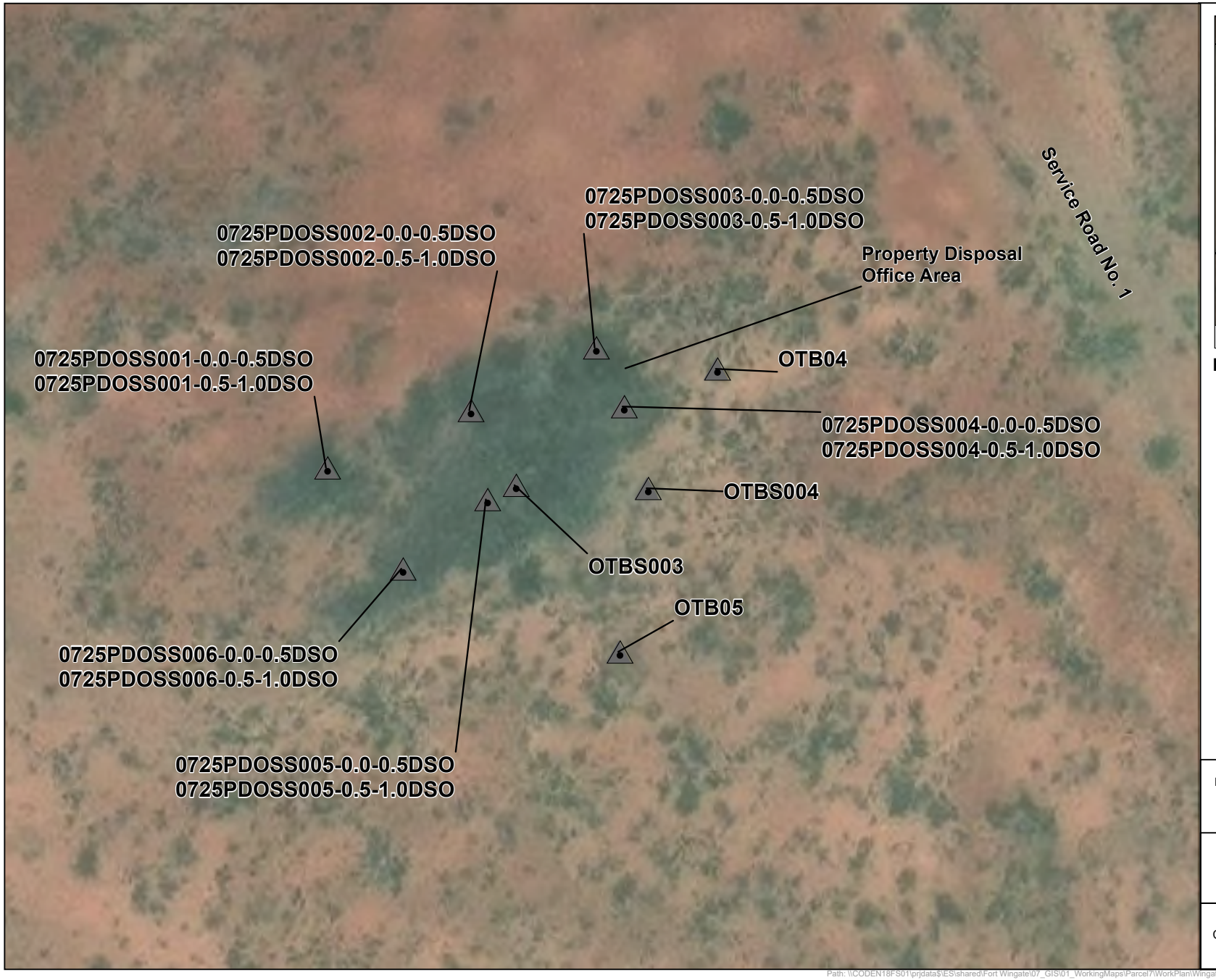

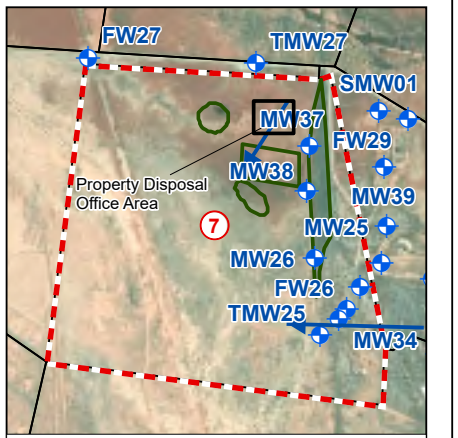

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- SWMU Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 10 20 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.4

Property Disposal Office Area
Previous Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/7/2025
		Checked by	LR	1/7/2025
		PM	CR	1/7/2025

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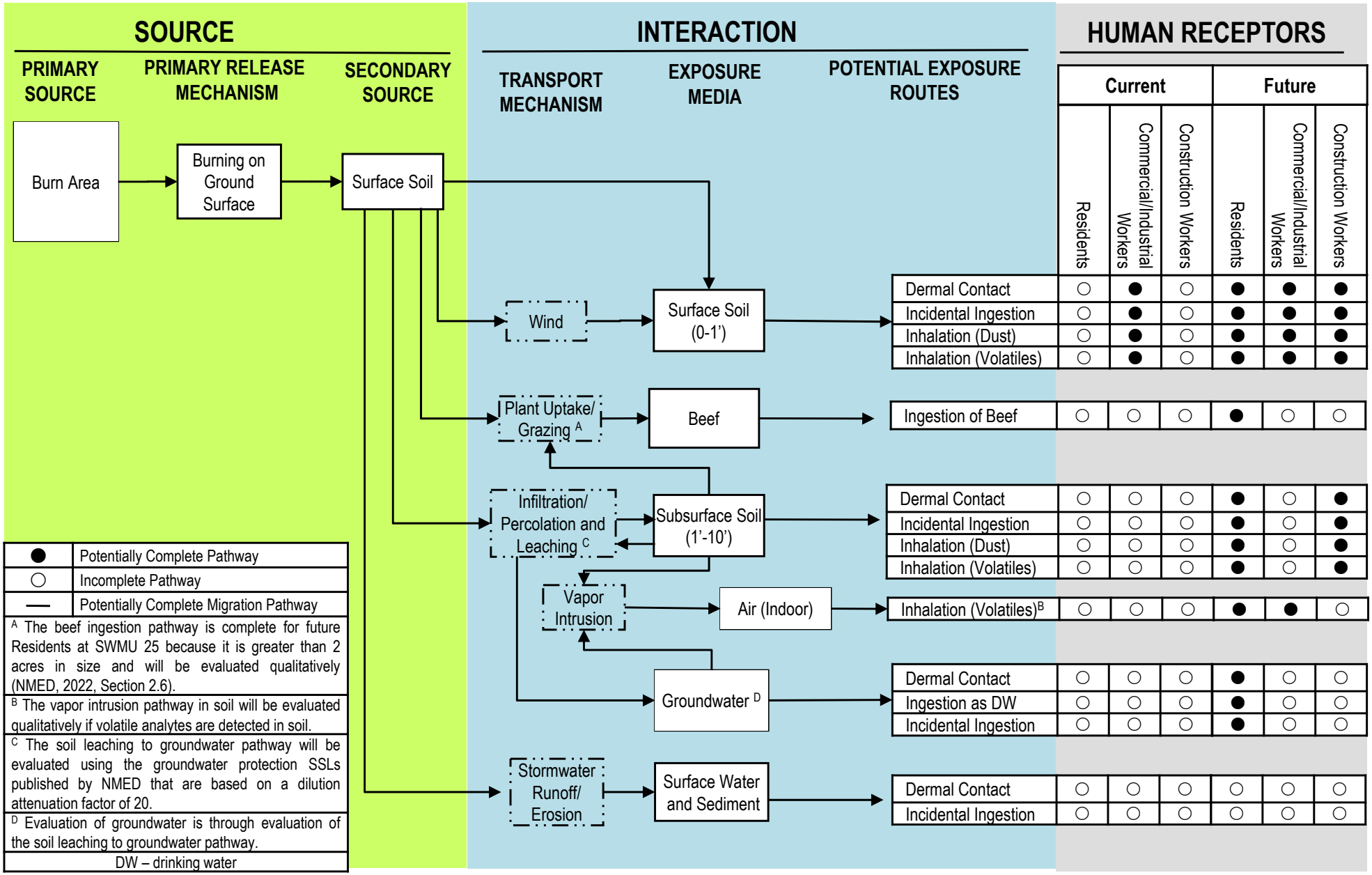
FIGURE 4.5
Preliminary Human Health Conceptual Site Model, SWMU 25

Site Name: Parcel 7, Fort Wingate Depot Activity, McKinley County, New Mexico

Completed By: Jessica Hinger, PARSONS ***Date Completed:*** February 16, 2024



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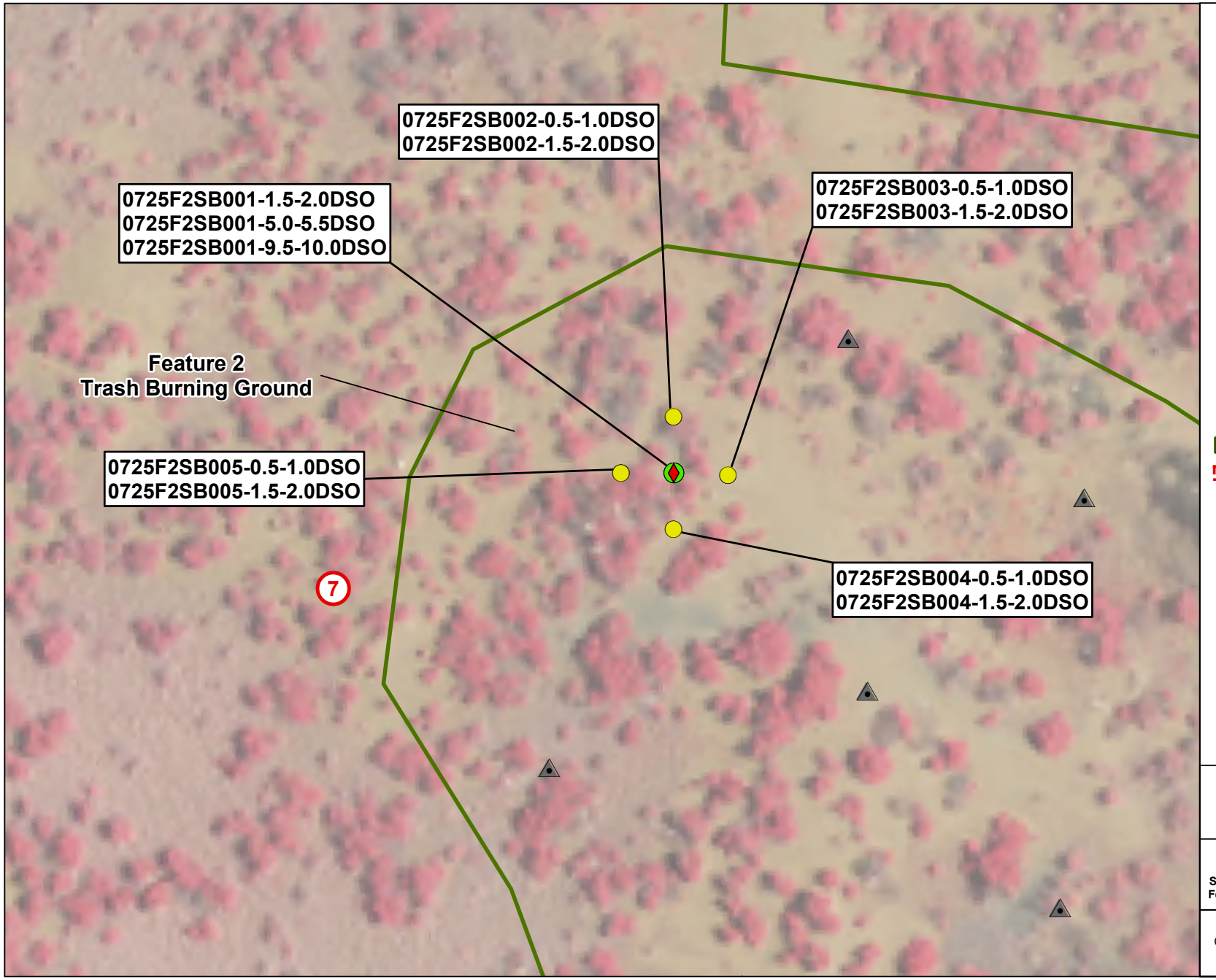

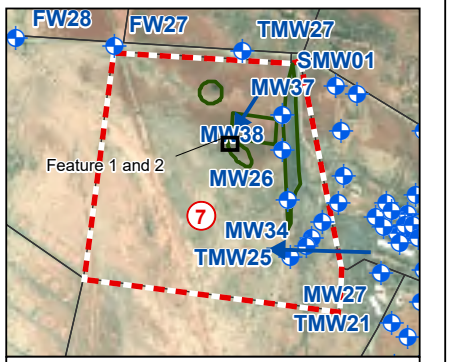

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Proposed Soil Boring Location
- Proposed Soil Boring at Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 4.2)
- SWMU Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 25 50 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.6

SWMU 25 – Trash Burning Ground Property Disposal Office Features 1 and 2 Proposed Supplemental Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/7/2025
		Checked by	LR	1/7/2025
		PM	CR	1/7/2025

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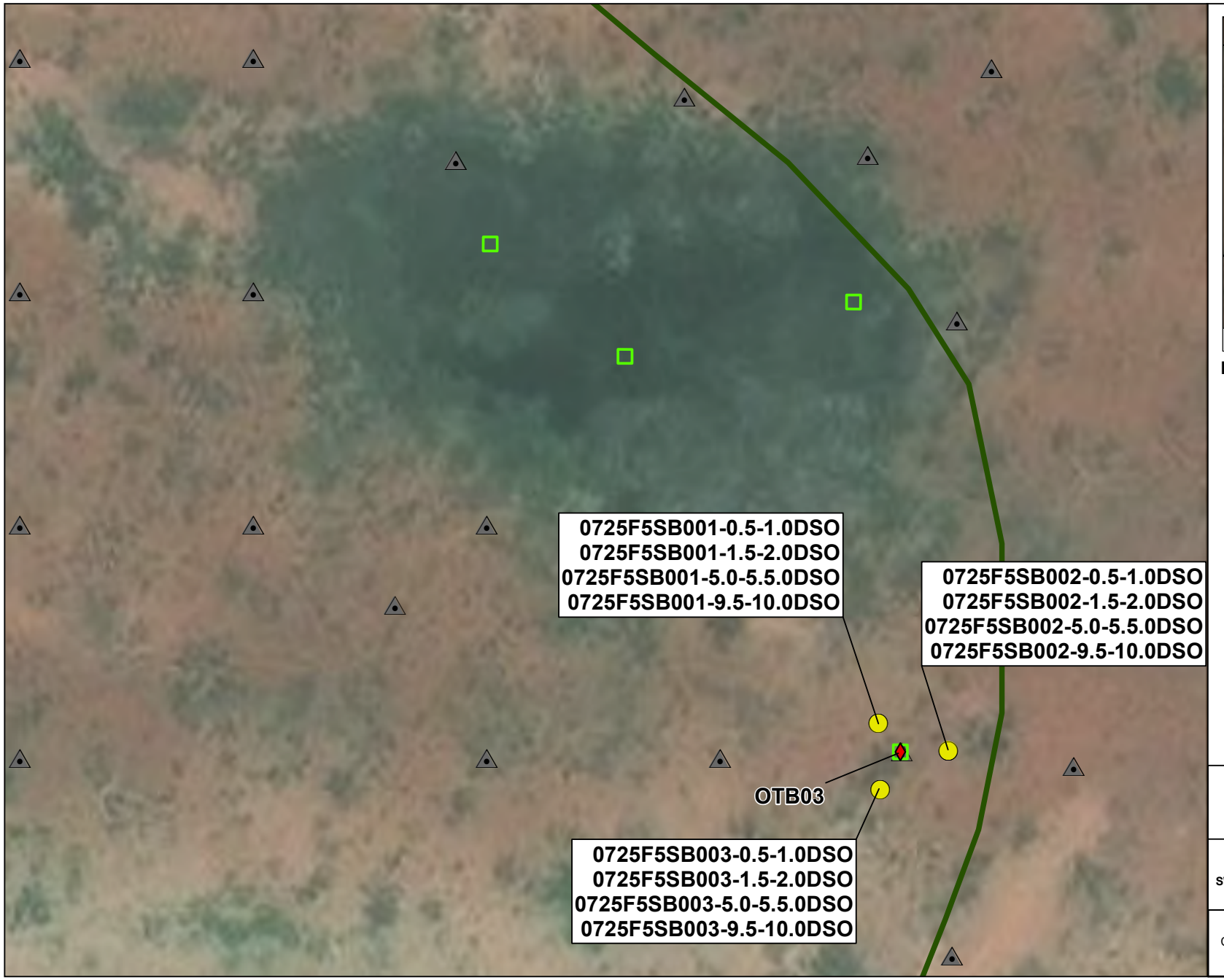

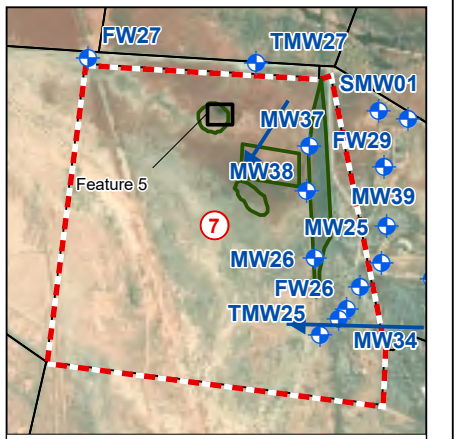

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Proposed Sample Location
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 4.2)
- Proposed Test Pit Location
- SWMU 25 Boundary
- Parcel 7 Boundary

Note:

SWMU = Solid Waste Management Unit

0 10 20 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 4.7

SWMU 25 – Trash Burning Ground Property Disposal Office
Feature 5 Proposed Supplemental Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/7/2025
		Checked by	LR	1/7/2025
		PM	CR	1/7/2025

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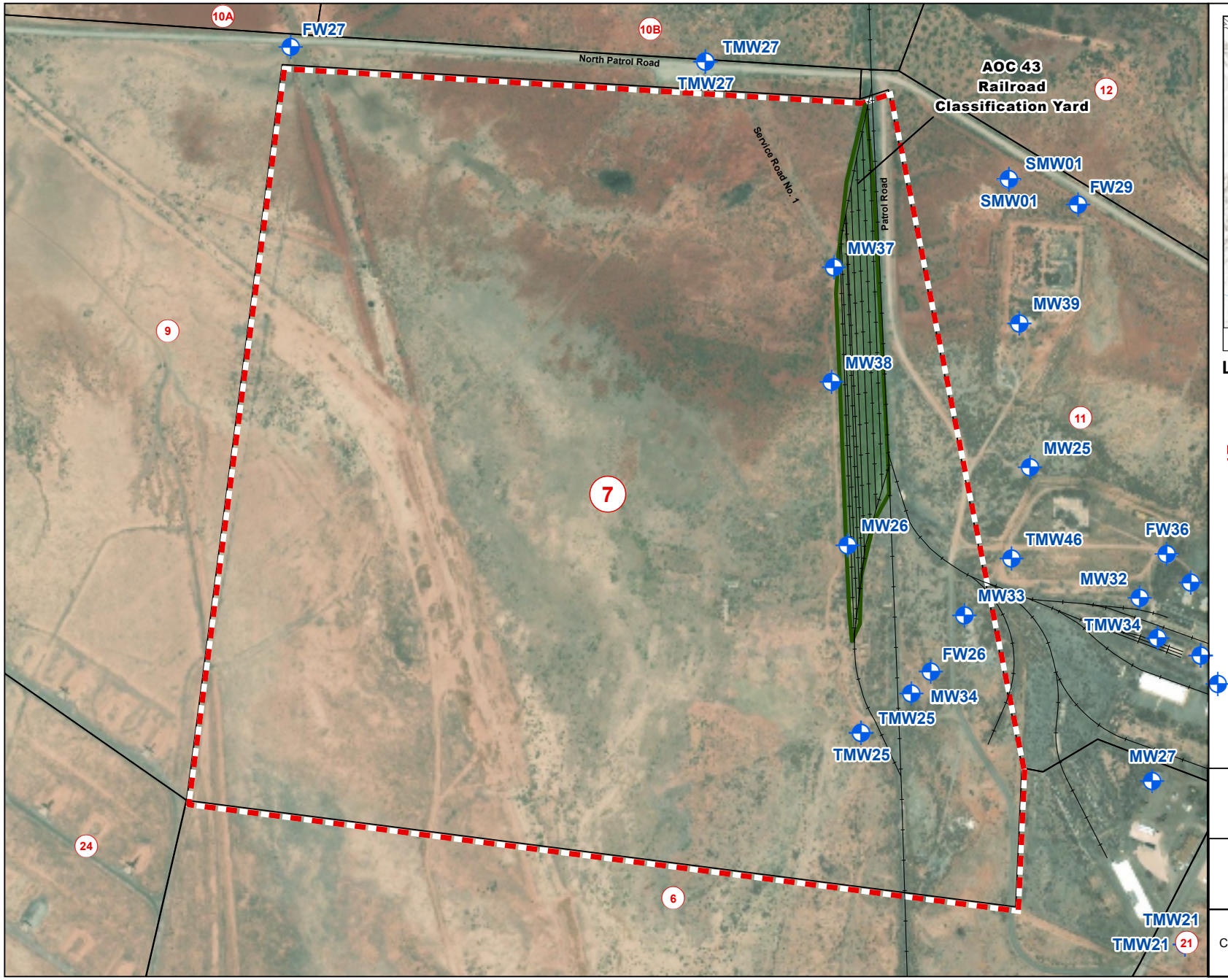

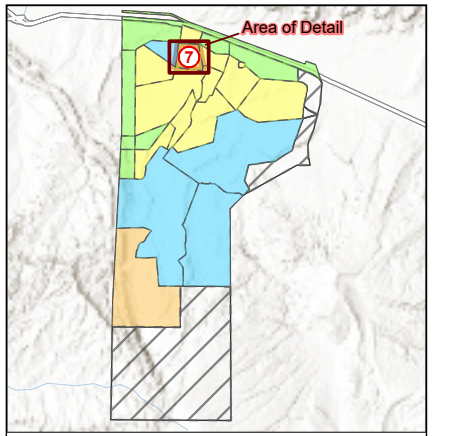

Parcel Map

Legend

- Existing Groundwater Monitoring Well
- SWMU Boundary
- Parcel 7 Boundary

0 250 500 Feet

N

Supplemental RCRA Facility Investigation Work Plan
Parcel 7 Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 5.1

AOC 43 - Railroad Classification Yard Location Map

Client	USACE, Albuquerque District	GIS by	AM	3/4/2024
		Checked by	LR	3/4/2024
		PM	CR	3/4/2024

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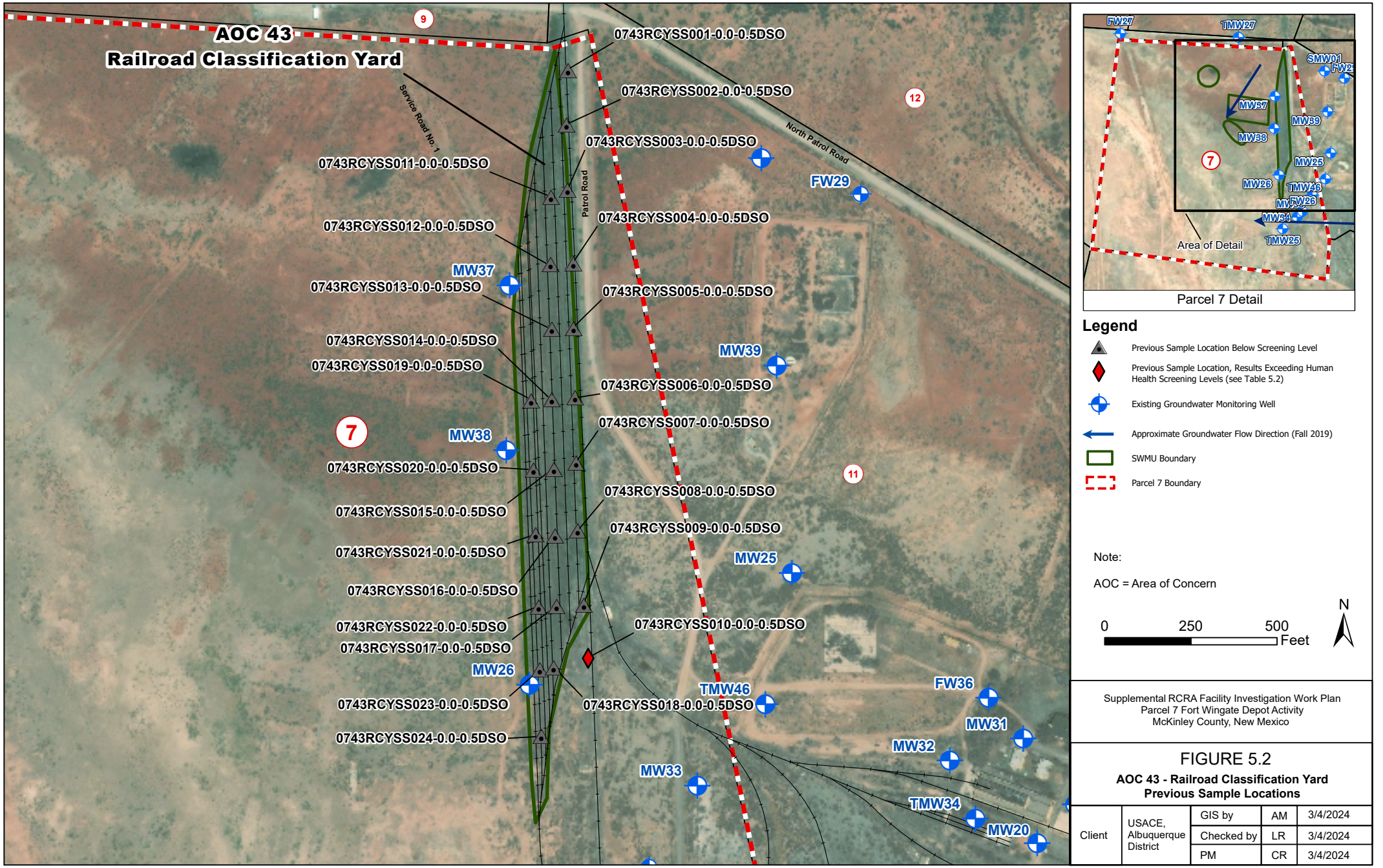

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 5.2)
- Existing Groundwater Monitoring Well
- Approximate Groundwater Flow Direction (Fall 2019)
- SWMU Boundary
- Parcel 7 Boundary

Note:

AOC = Area of Concern

0 250 500 Feet

N

Supplemental RCRA Facility Investigation Work Plan
Parcel 7 Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 5.2

AOC 43 - Railroad Classification Yard
Previous Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	3/4/2024
		Checked by	LR	3/4/2024
		PM	CR	3/4/2024

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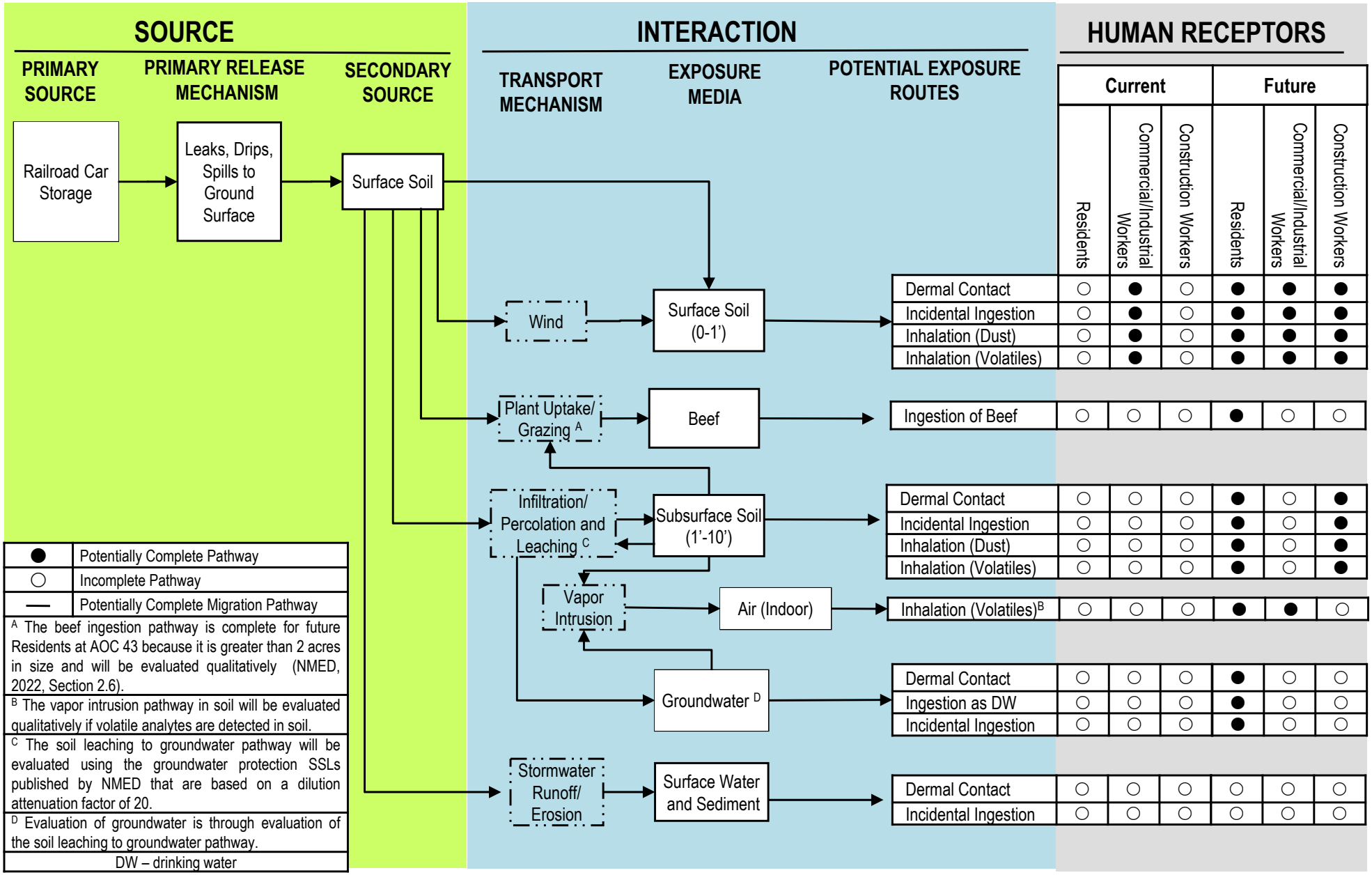
FIGURE 5.3
Preliminary Human Health Conceptual Site Model, AOC 43

Site Name: Parcel 7, Fort Wingate Depot Activity, McKinley County, New Mexico

Completed By: Jessica Hinger, PARSONS ***Date Completed:*** February 16, 2024



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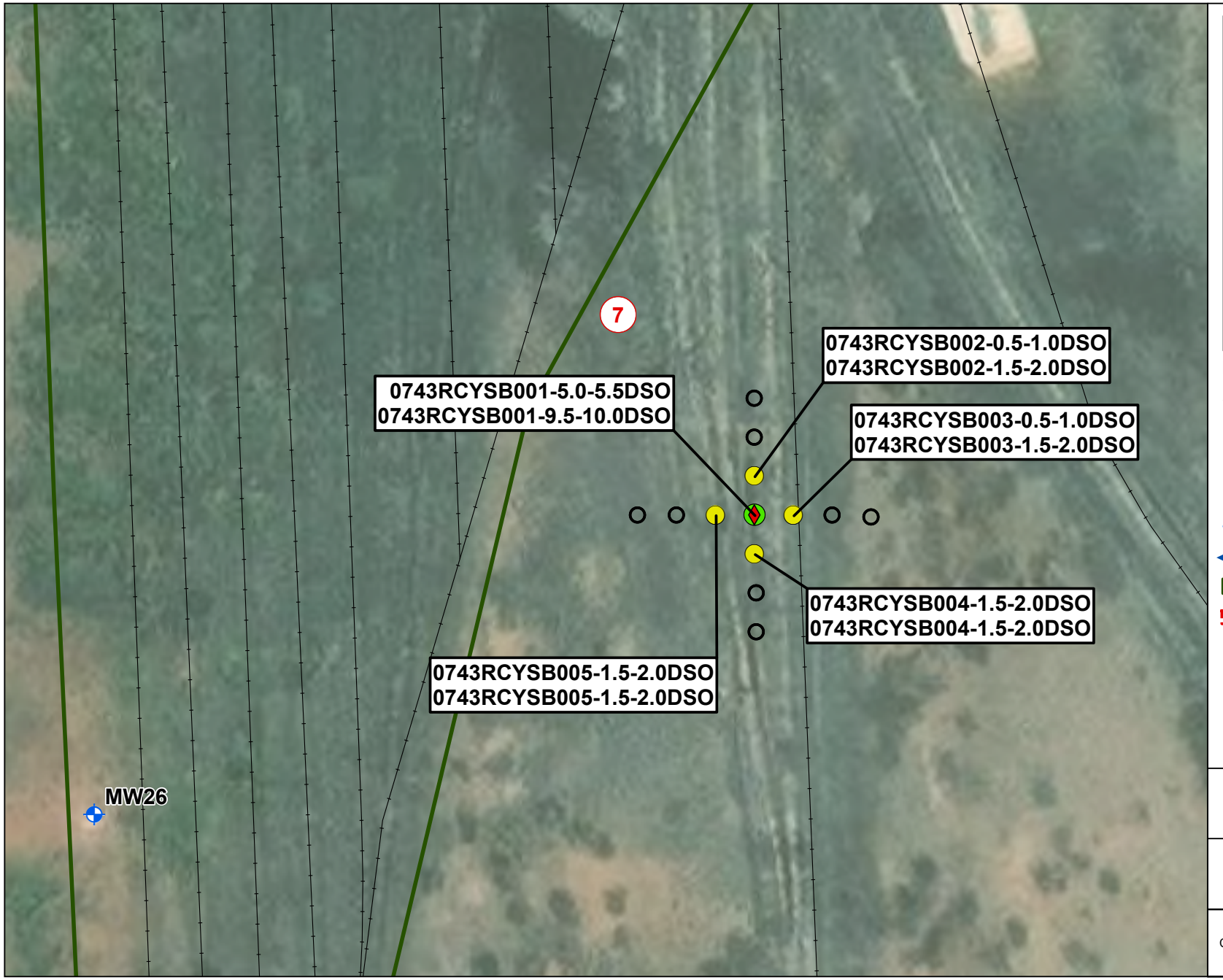

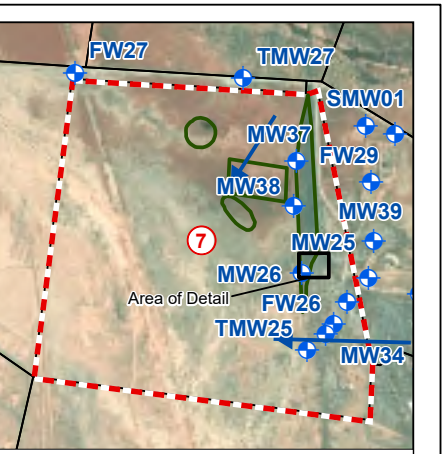

Parcel 7 Detail

Legend

- Previous Sample Location Below Screening Level
- Proposed Sample Location
- Potential Step-Out Location If Needed to Define Extent
- Proposed Soil Boring at Previous Sample Location, Results Exceeding Human Health Screening Levels (see Table 5.2)
- Existing Groundwater Monitoring Well
- Approximate Groundwater Flow Direction (Fall 2019)
- SWMU Boundary
- Parcel 7 Boundary

Note:

AOC = Area of Concern

0 20 40 Feet

N

RCRA Facility Investigation Supplemental Work Plan Parcel 7
Fort Wingate Depot Activity
McKinley County, New Mexico

FIGURE 5.4

AOC 43 - Railroad Classification Yard
Proposed Supplemental Sample Locations

Client	USACE, Albuquerque District	GIS by	AM	1/2/2025
		Checked by	LR	1/2/2025
		PM	CR	1/2/2025

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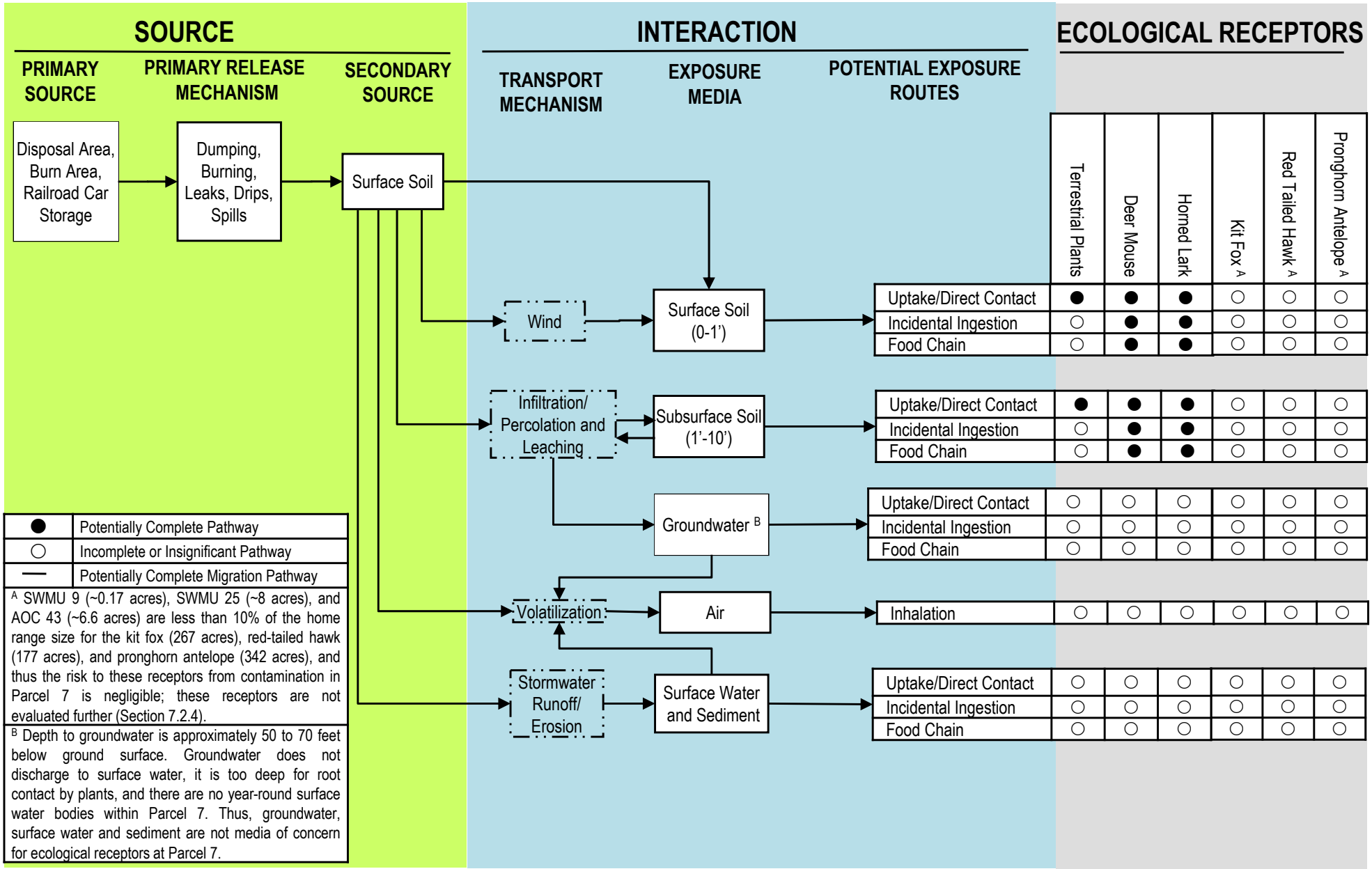
FIGURE 7.1
Preliminary Ecological Conceptual Site Model

Site Name: Parcel 7, Fort Wingate Depot Activity, McKinley County, New Mexico

Completed By: Jessica Hinger, PARSONS ***Date Completed:*** February 16, 2024



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APPENDIX A
NMED Disapproval Letter and Army Responses

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CERTIFIED MAIL – RETURN RECEIPT REQUESTED

October 29, 2018

Mark Patterson
BRAC Environmental Coordinator
Fort Wingate Depot Activity
13497 Elton Road
North Lima, OH 44452

Steve Smith
USACE
CESWF-PER-DD
819 Taylor Street, Room 3B06
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RE: DISAPPROVAL
FINAL RCRA FACILITY INVESTIGATION REPORT
PARCEL 7 REVISION 1
FORT WINGATE DEPOT ACTIVITY
MCKINLEY COUNTY, NEW MEXICO
EPA ID# NM6213820974
HWB-FWDA-17-003

Dear Messrs. Patterson and Smith:

The New Mexico Environment Department (NMED) is in receipt of the Fort Wingate Depot Activity (Permittee) *Final RCRA Facility Investigation Report Parcel 7 Revision 1* (Report), dated June 27, 2018. NMED has reviewed the Report and hereby issues this Disapproval. The Permittee must address the following comments.

GENARAL COMMENTS

1. Response to NMED's Comments (RTC) Letter

NMED Comment: Not all revised sections, tables, and/or figures are referenced in the RTC letter. The RTC letter must identify all revised parts of the Report required by the NMED comments. Ensure that the RTC letter is accurate and complete for all future submittals.

2. Redline Strikeout (RLSO) Version of the Report

NMED Comment: The Report was revised extensively; however, all revisions were not identified in the RLSO version. For example, although many new sections, tables and figures were added to the revised Report, these changes were not identified in the RLSO version. Similarly, new acronyms and abbreviations were added to the *List of Acronyms and Abbreviations*; however, most of the new acronyms and abbreviations were not identified in the RLSO version. The RLSO version must identify all revisions made to the previous version of the Report. Failure to provide in accurate RLSO version slows review, creates the potential for changes to be overlooked, and the inability to identify changes to a document can be misleading.

3. Investigation in SWMU 25

NMED Comment: Comment 5 in the NMED's *Approval with Modifications for RCRA Final Facility Investigation Work Plan and Historical Information Summary Document Parcel 7*, dated January 31, 2014, directs the Permittee to propose to conduct an investigation that is more inclusive of the total scarred earth as seen in the [SWMU 25] aerial images. The dark stained area is clearly visible within Feature 5 according to Figure 4-2, *SWMU 25 – Trash Burning Ground Property Disposal Office – Previous Sample Location.* The comment instructs the Permittee to investigate the area; however, no soil borings were advanced and no investigative trenches were installed within the dark stained area. Only one surface soil sample (0725F5SS003) was collected within the dark stained area. The Permittee did not fully investigate the dark stained area despite the NMED's direction. Similarly, SWMU 9 was investigated and an exposure concentration for the stained area was improperly calculated (See Comment 10 in the NMED's *Disapproval for Final RCRA Facility Investigation Report Parcel 7*, dated August 7, 2017). The nature and extent of contamination has not been defined correctly at SWMUs 9 or 25; therefore, sample distribution is not representative of actual contamination at the SWMUs. While further investigation and remediation activity was proposed for the stained area in SWMU 9 in the Report, no further investigation was proposed for SWMU 25. The Permittee must investigate the dark stained area in SWMU 25 and reevaluate the risk. Submit a Phase 2 RCRA Facility Investigation Work Plan (Work Plan) to propose further investigation in the dark stained area found within SWMU 25 no later than **September 5, 2019**.

4. Screening Levels

NMED Comment: The risk assessment was generally revised in accordance with the NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (Guidance) dated March 2017. Comment 4 in the NMED's *Disapproval for Final RCRA Facility Investigation Report Parcel 7*, dated August 7, 2017 indicated that the most current guidance (2017) should be used for the risk assessment unless a risk assessment was already underway; in this case, older guidance was allowed. However, the comment specifically states, "[a]s such, the risk assessments should have been conducted following the 2017 guidance." The risk assessments were updated to follow the methodology in the 2017

guidance, but the 2017 residential soil screening levels (SSLs) were not incorporated into the updated assessment of risk and hazard based on direct contact exposures. Section 2.6.1, *Regulatory History*, states that NMED did not require a response to Comment 4; thus, the current risk SSLs were not used for evaluating direct contact pathways. The 2017 SSLs should have been incorporated into an updated assessment of risk and hazard via direct contact pathways. Use of the methodology in the 2017 Guidance requires use of the 2017 Guidance SSLs. The Permittee cannot use more than one assessment guidance document. Specific constituents where use of the 2017 SSLs would have resulted in lower estimates of risk include arsenic (2017 SSL is 7.07 mg/kg compared to 2012 SSL of 3.9 mg/kg) and polycyclic aromatic hydrocarbons (PAHs) (2017 SSL for benzo(a)pyrene is 1.12 mg/kg compared to 2012 SSL of 0.148 mg/kg). Since refined assessments resulted in acceptable risk levels, the use of the 2017 SSLs would not have changed the overall results of the assessments. However, use of the current SSLs would have resulted in less costly assessments since the refinements and justifications needed to address uncertainties would likely have been less extensive. Revise the Report accordingly.

5. Soil-to-Groundwater Screening Analyses

NMED Comment: For the soil-to-groundwater screening analyses, risks were calculated using constituent-specific concentrations in the subsurface and the generic soil-to-groundwater screening levels (SLs) for a dilution attenuation factor (DAF) of 20 taken from the 2017 Guidance. The estimated risks are presented in the discussions and tables for all sites evaluated in Parcel 7. The soil-to-groundwater SLs address the potential leaching of contaminants from the vadose zone to groundwater and incorporate chemical and physical properties of the constituents. The soil-to-groundwater SLs are not truly risk-based numbers; therefore, estimations of risk for soil-to-groundwater should not be conducted and should not be included in cumulative risk/hazard estimates; comparison to target risk levels is not applicable to the soil-to-groundwater pathway. Rather than estimating risk, soil contaminant concentrations must be compared directly to the soil-to-groundwater SLs to determine if the subsurface soil contamination has the potential to act as a source of contamination for groundwater. If the site concentration is greater than the appropriate soil-to-groundwater SL (e.g., a ratio greater than one), additional investigation is necessary to evaluate potential leaching and migration to groundwater in excess of NMED groundwater protection criteria. Refinements of the soil-to-groundwater pathway do not include evaluation on a target organ-specific basis; again, the soil-to-groundwater SLs are not evaluated as risk-based numbers; and comparison of risk by target organ is inappropriate. Section 4.3 of the 2017 Guidance allows the use of the least conservative soil-to-groundwater SL for the initial soil-to-groundwater SL evaluation (this may be based on a water quality parameter, a contaminant limit, or drinking water standard). Revise all text and associated tables in the Report, removing all estimates of risk/hazard for the soil-to-groundwater pathway. In addition, revise each site-specific discussion of the soil-to-groundwater screening in terms of point comparisons and the identification of constituents that exceed the corresponding soil-to-groundwater SLs. Where soil-to-groundwater SLs are exceeded, additional evaluation following Section 4.3 of the 2017 Guidance is required.

6. 95 Percent Upper Confidence Level (95% UCL) of the Mean Calculation

NMED Comment: As part of the refinement process for exposure point concentrations (EPC) in the risk assessment, a 95 percent upper confidence level (95% UCL) of the mean was calculated. In the event there were three or fewer detects, the median concentration was applied as the EPC. With three or fewer results, calculation of a median is not an acceptable approach. The Guidance clearly states that if sufficient data are not available to calculate a 95% UCL, the maximum detected concentration should be retained as the EPC. A review of EPA risk assessment guidance and recommendations was conducted, and no documentation could be found to justify the use of the median. It is noted that this appears to have been applied when calculating risks for the soil-to-groundwater pathway only which, as indicated in Comment 5, is an incorrect methodology for this pathway. Revise the Report to remove the use of median concentrations for EPCs.

7. Field Method Description

NMED Comment: A required description of sampling methods utilized in the field was not provided in the Report. References to work plans or standard operating procedures are not sufficient. Provide detailed descriptions of all activities actually performed in the field in the revised Report.

8. Electronic Database

NMED Comment: The Permittee failed to include an electronic database that includes all historical data for Parcel 7 in the Report. For all documents that include analytical data, the Permittee must include a searchable electronic file with all historical data included in a format acceptable to the NMED. Provide the searchable electronic data in the revised Report.

9. ProUCL Output Data Files

NMED Comment: The Permittee provided hard copies of many ProUCL output data files. Hard copies of these files are unneeded and cumbersome. ProUCL output files should be submitted in electronic format only. Remove all hard copy ProUCL output files from the revised Report and include them in electronic version only.

10. Analytical Laboratory Reports

NMED Comment: The Report includes Level IV reports from the analytical laboratories. This has resulted in over 42,000 pages of laboratory reports for this Report. These reports are rarely needed and cumbersome. NMED requests that only Level II analytical laboratory reports be included with all submittals. Revise the Report by removing Level IV analytical reports and including the Level II analytical reports. In addition, for large appendices such as the 34,210-page Appendix F where multiple analytical and quality assurance/quality control reports are included, the Permittee must include descriptive bookmarks indicating where each new report begins.

11. Sample to Analytical Laboratory Report Link

NMED Comment: The Permittee provided large quantities of data with no cross-reference between a specific sample and a specific analytical laboratory report. For this document alone, the Permittee provided over 42,000 pages of analytical laboratory reports with no reference to where a particular sample can be located. For every document that includes analytical data, provide a cross-reference for each specific sample to a specific lab report filename (if multiple files are provided) or to a page number in the appendix where the specific lab report can be found (if multiple lab reports are combined into one large file). In this Report, the lab reports are combined into several large files; therefore, the Permittee must provide page numbers for the beginning of the laboratory report that contains the sample. This information can be provided in a new table or in the analytical data electronic database.

12. Inaccuracies/Discrepancies

NMED Comment: The Report contains multiple inaccuracies and discrepancies. A partial list is provided below:

a. In the *Executive Summary; ES.2 Scope of Investigation,* lines 24-26, page ES-1, the Permittee states, "[a] summary of field investigations is included in Table ES-1 and discussed in the individual sections for the parcel 7 SWMUs and AOCs within this RFI Report." Table ES-1 is not included in the Report. Include Table ES-1 in the revised Report.

b. In Section 3.6.8, *Uncertainty Discussion,* lines 30-31, page 3-23, the Permittee states, "[t]he remaining 29 analytes are comprised of two Aroclors, three explosives, 12 SVOCs and 10 VOCs having LOQs and LODs greater than the groundwater protection SSL." This totals 27 analytes. Confirm the number of samples and correct the statement in the revised Report as necessary.

c. In Section 4.4.2, *Investigation Trenching,* lines 5-6, page 4-4, the Permittee states, "[t]hree trenches each approximately 50 feet in length were excavated using a rubber tire backhoe equipped with a 12-inch wide bucket." Figure 4-3, *SWMU 25 – Features 1 and 2 – Soil Sampling and Trenching Locations*, depicts the locations of the trenches. Each trench appears to be approximately 300 feet in length according to the scale provided in Figure 4-3. Resolve the discrepancy in the revised Report.

d. Section 4.6.6.2.3, *Refinement 3 – Lines-of-Evidence Discussion (Quantitative Revision),* line 10, page 4-16 starts with "SWMU 9 SS07-SS10 Area – Soil to Groundwater Pathway." The discussion in Section 4.6.6.2.3 is pertinent to SWMU 25. SWMU 9 is the POL Waste Discharge Area and is not related to SWMU 25. Correct the statement in the revised Report.

e. In Section 4.7.9, *Uncertainty Discussion,* lines 28-31, page 4-54, the Permittee states, "NMED does not provide LOAEL-based TRVs and/or Effect Concentrations for multiple VOCs and SVOCs that were detected at SWMU 9 so the potential hazard from these analytes was not quantified." The discussion in Section 4.7.9 is related to SWMU 25. The statement references SWMU 9. Revise the statement to reference SWMU 25 and verify that the uncertainty as copied from the SWMU 9 evaluation applies to SWMU 25 in the revised Report.

f. Table 4-2A, *SWMU 25 – Trash Burning Ground Property Disposal Office Sample Result Detections (August 2014) – Direct Contact Screening,* page 4-T93 and Table 4-2B, *Trash Burning Ground Property Disposal Office Sample Detections (August 2014) – Soil to Groundwater and Ecological Screening,* page 4-T229, appear to contain typographical errors. Sample ID 0725F5SS003-0.5-1.0DSOA must be corrected by deleting "A"; otherwise, provide an explanation for differentiating the sample ID from others in the revised Report.

g. Table 5-4A, *AOC 43 – Railroad Classification Yard, Cumulative Hazard/Risk Calculations for Detected Analytes, Residential Receptor,* page 1 of 3, indicates that the maximum detected arsenic concentration did not exceed the background value. However, the maximum detected arsenic concentration is shown as 6.60 mg/kg while the background value is shown as 5.60 mg/kg in the table. The soil-to-groundwater SL, rather than background value, must be used to assess the soil-to-groundwater pathway for arsenic. Refer to Comment 21 below.

h. In Figure 4-3, the designation of soil samples collected from SWMU 25 – Feature 1 begins with 0725F1F1SS while the designation of soil samples collected from SWMU 25 – Feature 2 begins with 0725F1F2SS. However, in Table 4-2A and Table 4-2B, the designations of soil samples collected from Feature 1 and Feature 2 begin with 0725F1SS and 0725F2SS, respectively. The designation of the samples is not consistent. Resolve the discrepancies in the revised Report.

i. Figure 4-4, *SWMU 25 – Feature 5 – Soil Sampling Locations*, shows each soil sampling location for SWMU 25 – Feature 5 while Figure 4-5, *SWMU 25 – Additional Sampling Areas – Soil Sampling Locations*, shows each sampling location for SWMU 25 near the Property Disposal Office Area. The designations for sample locations 0725F5SB001, 0725F5SB002, 0725F5SB003, 0725F5SB004, 0725F5SB005, and 0725F5SB006 are identical in Figure 4-4 and Figure 4-5. The sample identification (ID) numbers must be different since these samples are collected from different areas. Revise the Report, accordingly.

j. In Figure 4-4, the designations of soil samples collected from SWMU 25 – Feature 5 begin with 0725F5SB. However, in Table 4-2A and Table 4-2B, the designations of soil samples begin with 0725F5SS. If these samples are the same, the sample ID must be the same. Resolve the discrepancy in the revised Report.

k. In Figure 4-5, the designations of soil samples collected from the Property Disposal Office Area begin with 0725F5SB. However, in Table 4-2A and Table 4-2B, the soil sample IDs begin with 0725F5SS. If these samples are the same, the sample IDs must be the same. Resolve the discrepancy in the revised Report.

l. In Appendix A, *NMED Correspondence, Response to August 22, 2017 Disapproval Letter*, the letter is titled as "Response to August 22, 2017 Disapproval Letter, Final RCRA Facility Investigation Report Parcel 7." The letter text states, "[t]his letter is in response to your comments presented in the Disapproval Letter dated August 7, 2017..." NMED's Disapproval letter is dated August 7, 2017. It appears that the title of the letter contains a typographical error. Correct the typographical error in the revised Report.

The Permittee has presented a document with many inaccuracies and discrepancies. It appears that a quality assurance review was not conducted on the document. Identifying, researching, confirming, and documenting inaccuracies extends review times. Extended review times can result in delays in the review of other documents, as well as delays in the overall corrective action progress at the facility. Ensure that a quality assurance review is conducted on future submittals as this is a recurring issue.

SPECIFIC COMMENTS

13. Response to NMED's August 7, 2017 Disapproval Comment 1

Permittee Statement: "In subsequent discussions between NMED and the Army, it was agreed that it was not necessary to sample for white phosphorus. The correspondence between NMED and the Army is included in Appendix P of the report. Appendix P also contains documentation supporting this decision."

NMED Comment: In Appendix P, *Correspondence and Documentation Regarding White Phosphorus*, the September 5, 2017 email from Mr. Ben Wear of the NMED to Mr. Steve Smith of the U.S. Army Corps of Engineers (USACE) is provided. The email states, "[t]he justification letter from DJ looks sufficient. Please include this information in the text of the revised report, as well as in the response to comments. NMED prefers that reports include "Deviations" section that details any deviations from the approved work plan and includes justification for said deviations." The justification letter was included in Appendix P; however, the justification and deviation were not discussed in the Report. Revise the Report to include the information that justifies omission of white phosphorus analysis in the "Deviations" section of the Report.

14. Response to NMED's August 7, 2017 Disapproval Comment 8

Permittee Statement: "Railroad ties are not tinted with green suggesting [chromium, copper, and arsenic] CCA was not used to preserve the ties in the RCY."

NMED Comment: When the Permittee uses an acronym/abbreviation first time in the

statement, the acronym/abbreviation must be spelled out unless it is listed in the *List of Acronyms and Abbreviations* in the Report. "CCA" was listed in the *List of Acronyms and Abbreviations*; however, "RCY" was neither listed or spelled out. List the abbreviation "RCY" in the *List of Acronyms and Abbreviations* or spell out the acronym in the revised Report.

15. Section 2.6.7.2.2, Application of the FWDA Metals Background Studies, lines 36-40, page 2-14

Permittee Statement: "The 2010 Shaw background study provides an unbiased, adequate, and reasonable representation of background conditions at FWDA and can be utilized when evaluating both discrete and incremental sampling methodology (ISM) metals analyses for soil. Consequently, FWDA background study results can be applied to both discrete and ISM samples during the risk evaluation process."

NMED Comment: The statement regarding comparison of mixed datasets allows that because the background reference values are based on "unbiased, adequate, and reasonable representations of background conditions", comparison of incremental sample (IS) data to the 2010 discrete data in the 2010 Shaw study is acceptable. IS methodology is designed to reduce variances and small-scale variability. Therefore, IS data are more a reflection of the mean of a dataset rather than the upper tolerance limit (UTL). Comparison of IS data to a UCL would be more appropriate than comparison to a UTL. Intuitively, comparison of a "mean" to an UTL seems conservative and likely to result in decision errors that result in stricter regulation. However, as the data are statistically incomparable, comparisons should be limited to a qualitative discussion at best. While some one-tailed statistical tests might be applied, the level of uncertainty would be high. Thus, NMED does not agree that discrete and IS data may be quantitatively compared at this time and disagrees with the statement. The Permittee must collect IS background data for comparison to the proposed IS data. The comparison of the discrete background data to site IS data may be used as a qualitative line of evidence but may not be used to eliminate an inorganic constituent as a potential constituent of concern. The position of the NMED remains unchanged. If IS are to be used, background IS collection must be conducted to obtain results suitable for quantitative comparison to site IS data.

State and Federal regulatory authorities, as well as the developers of ProUCL and IS applications, are aware that at many sites, a large amount of discrete onsite and/or offsite background data are already available which cannot be directly compared with newly collected IS data. In order to provide a tool to compare the existing discrete background data with actual field onsite or background ISM data, a Monte Carlo Background Incremental Sample Simulator (BISS) module is being developed and evaluated for incorporation into ProUCL. It is noted that BISS will require a large existing discrete background data set. From this background database, it is understood that the BISS module will simulate incremental sampling methodology based on equivalent background incremental samples. The availability of a large discrete background data set collected from areas with geological conditions comparable to the decision units (DUs) of interest is a pre-requisite for successful

application of this module. For now, the BISS module has been blocked for public/general use as this module is awaiting adequate guidance and instructions for its intended use on discrete background data sets. As noted in Section 4.4.3.2 of the ITRC Guidance for IS, comparing or combining discrete data and IS data, conceptually, can only be done when specific conditions are met. Furthermore, the guidance allows that one must be very cautious in how information is compared or combined since it is likely that one or more of the conditions presented in the bulleted items below will be violated to some degree. Note that NMED's preliminary evaluation of the currently available information regarding each condition at the Facility is also provided.

The discrete background sample locations were based on ecozones with specific locations chosen in the field. The sample locations were random-biased but not statistically determined. Further, the background data set is comprised of samples collected across various ecozones at the Facility versus specific soil types. Based on the locations and discussion of the discrete background data as provided by the Permittee, there are only five data points available representing Parcel 7. Additional justification is needed that these five samples were statically located and are of sufficient number for comparison to IS data. The Permittee must demonstrate that the entire database is appropriate for use in Parcel 7.

The background data collected as part of the 2010 effort used field screening of samples with a No. 4 screen (4.76 mm). However, Method 8330B uses a No. 10 mesh screen (2 mm). The inclusion of larger particles in the discrete data is likely to result in differences. Further, the discrete data were not ground prior to analyses, but Method 8330B will include grinding of the aliquots before collecting a subsample for analysis. Grinding of the samples will likely result in greater concentrations of metals compared to the discrete data.

Given the differences in sample collection methods and processing of the data, there is a potential that the IS data will result in higher metals concentrations compared to the discrete background data.

The 2010 background data were based on ecozones rather than soil type. A case will need to be made that the ecozones reflect soil types and conditions. As noted above, there are differences in sample preparation, specifically grinding of samples, that could result in differences in concentrations and add a layer of uncertainty to the comparison of discrete to IS data. The proposed analytical methods must be similar/consistent.

This comment has been provided to the Permittee multiple times, yet the practice is continued. Failure to abide by NMED's comments constitutes non-compliance.

16. Section 2.6.7.2.5, Conduct Statistical Evaluation, lines 21-33, page 2-15

Permittee Statement: "Metals with maximum concentrations greater than background levels and the essential nutrient SSLs from discrete-depth samples may undergo additional evaluation. The additional evaluation may include a comparison of the maximum concentration in the sample set to the maximum concentration in the background data set,

comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, comparison of the 95% UCL to the maximum concentration in the background data set, or may proceed to a more robust statistical evaluation as described in Section 2.8.3.2 of the NMED risk guidance using ProUCL statistical software (version 5.1). The more robust statistical evaluation, if performed, includes conducting a two-sample hypothesis test for data sets consisting of at least eight samples and at least five detections, conducting a point-by-point comparison to background levels for data sets that are smaller, and preparation of graphical displays to provide further rationale to determine if metals concentrations are consistent with background levels or elevated above background levels."

NMED Comment: If the maximum detected concentration exceeds the background reference value, the Permittee states that additional evaluation may include a comparison of the maximum concentration in the sample set to the maximum concentration in the background data set, a comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, or a comparison of the UCL to the background range. If data fail the statistical analysis (or there are insufficient data), additional lines of evidence that are appropriate include site history and percentage of non-detects. With the exception of the special case for arsenic at the Facility, NMED does not allow screening of inorganics in either of these two manners. In accordance with the Guidance, if the maximum fails the initial step, then a statistical evaluation is required. As noted in Section 2.8.3.2 of the Guidance, a "simple comparison to a range of data or quartiles are not acceptable lines of evidence" to drop a constituent from the risk assessment. Comparisons of maximums/UCLs and ranges may be only provided in the Uncertainties discussion of the risk assessment. Remove the comparison of the maximum concentration in the sample set to the maximum concentration in the background data set, comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, and the use of the UCL from the site attribution analysis as a means to drop a constituent from the risk assessment. Revise the risk assessments in the Report accordingly.

17. Section 2.6.7.2.6, Present Additional Lines of Evidence, lines 12-24, page 2-16

Permittee Statement: "Arsenic is commonly detected at levels greater than its background level and in some cases greater than the maximum concentration in the arsenic background data set. Therefore, the toxicological profile for arsenic was reviewed to determine if its uses might be associated with historical FWDA operations. Arsenic has been used in a wide range of applications, including wood preservatives, agricultural chemicals, as an alloying element in ammunition and solders, as anti-friction additive in bearings, semi-conductors for telecommunications, and medicinal uses (Agency for Toxic Substances and Disease Registry [ATSDR], 2007a). Its use in wood preservatives and ammunition means there is the potential for arsenic to be site-related. However, wood preserved with arsenicals was most commonly used in residential applications, and it would take a large volume of ammunition to lead to large-scale arsenic contamination. In cases where only a small number of arsenic results exceed the published background level and are consistent with the range of arsenic

concentrations in the background data set, arsenic will be identified as not site-related."

NMED Comment: Arsenic is ruled out as being site related based on site use as defined in the toxicological profile. However, arsenic is retained and evaluated in the risk assessments, which appears to contradict the statement. As arsenic is retained for risk evaluation, the statement must be removed. If applicable, the discussion may be included in the uncertainty analyses. However, it should be noted that arsenic is not a risk driver for SWMU 9 and AOC 43 (maximum detections are either less than background or less than the 2017 NMED SSL of 7.07 mg/kg). For SWMU 25, while the maximum detection drives risk, the UCL for arsenic is significantly below the NMED SSL of 7.07 mg/kg.

18. Section 2.6.7.3, Cumulative Risk Evaluation (Part 3), lines 3-6, page 2-18

Permittee Statement: "The 95% UCLs calculated for the direct contact pathway to evaluate residential receptors were used to evaluate the soil to groundwater pathway because these two exposure scenarios use the same exposure interval (0 to10 feet)."

NMED Comment: Lines of evidence (LOE) have not been provided to demonstrate the spatial distribution of contaminants indicating that there is no trend or pattern to areas exhibiting the highest levels of contamination. In addition, subsurface distribution has not been discussed to show vertical trends and depth of contamination relative to groundwater. Without the above lines of evidence to show that data are sporadic with no areas of localized significance, using the UCL results in the amount of contamination being diffused over a larger area, masking smaller areas of elevated contamination that could impact groundwater. The 2002 *Supplemental Soil Screening Guidance* allows for the use of a mean concentration for comparison to soil-to-groundwater SLs for surface soil only; however, when evaluating subsurface data, only data collected from within a single boring may be used to estimate the mean. The 2002 *Supplemental Soil Screening Guidance* further allows that as contamination in these deeper soils is unlikely to be characterized to the same extent as contamination in surface soils, the maximum measured concentration of each contaminant in these borings should be used as a conservative estimate of the mean contaminant concentration for purposes of the initial soil screening evaluation. Surface and subsurface data from across the SWMU may not be combined for a UCL to evaluate potential impacts to groundwater. As the data used to evaluate the soil-to-groundwater pathway includes subsurface soil data (sample interval was 0-10 feet), the initial screening must be based on the maximum detected concentration. In the event that the maximum detection results in an exceedance of the SSL, additional evaluations may be conducted in accordance with the 2017 Guidance. Revise the Report accordingly.

19. Section 3.4.2, Visual Delineation of Impacted Soil at POL [Petroleum, Oils and Lubricants] Area, lines 17-23, page 3-3

Permittee Statement: "The first pothole was excavated with a backhoe north of sample location 0709POLSS009; the backhoe was then moved eastward with the final test pit located south of sample location 0709POLSS010. A test pit was excavated near sample

location 0709POLSS008 to a depth of 5.25 feet. The test pit identified asphalt material to a depth of approximately 0.8 foot, staining and strong petroleum odor to a depth of approximately 3.5 feet, and slight petroleum odor to the total depth of the test pit (5.25 feet)."

NMED Comment: Provide a map that shows the locations of test pits in the revised Report. The Permittee should have collected soil samples from the test pits for analyses of TPH-DRO-extended and lead at a minimum. Conduct laboratory analyses on samples collected during future soil investigations at the site. The petroleum odor was identified from the soils at the deepest point of the excavation (5.25 feet); therefore, vertical extent of the contamination is not delineated. In Section 3.8, *SWMU 9 Conclusions and Recommendations*, the Permittee states, "[a] separate work plan will be prepared to discuss the proposed approach to further evaluate the extent of impacted soil in this area and subsequent removal actions." In the work plan, the Permittee must propose to evaluate both vertical and lateral extents of soil contamination associated with TPH-DRO-extended and lead. Furthermore, installation of monitoring well MW34 was proposed to assess the potential groundwater impact associated with the dark stained area southeast of SWMU 9 in the *Final Groundwater Supplemental RCRA Investigation Work Plan Revision 4*, dated March 23, 2018. Propose to investigate potential impacts to groundwater in the vicinity of the dark stained area in the upcoming Phase 2 Investigation work plan. Include the analytical suite specified in the August 7, 2017 *Disapproval* Comment 6 for the groundwater samples collected from monitoring well MW34.

20. Section 3.4.2, Visual Delineation of Impacted Soil at POL Area, lines 24-27, page 3-3

Permittee Statement: "To determine the lateral limit on the western margin, five boreholes were hand augured on September 4, 2014. The lateral limit of the affected area was flagged when no tar, odor, or staining was observed. After delineating the area with flags, the perimeter was recorded using the GPS unit."

NMED Comment: Provide a figure that shows the boring locations in the revised Report. Explain why the western margin of the affected area was investigated differently from the northern, southern, and eastern margins of the contaminated area. The Permittee should have collected soil samples for the analyses of TPH-DRO-extended and lead at a minimum. Refer to Comment 19. A visual or olfactory investigation is not an appropriate for determining the nature and extent of contamination. Section 3.8, *SWMU 9 Conclusions and Recommendations*, states that a separate work plan will be prepared to discuss the proposed approach to further evaluate the extent of impacted soil in this area. In the Work Plan, propose step-out samples at five to ten feet intervals from the locations where contamination was identified to define the lateral extents of contamination. Propose deeper samples at the locations where contamination was identified to determine the vertical extent of contamination. Submit the Work Plan that proposes to evaluate the lateral and vertical extents of soil contamination.

21. Section 3.6, Human Health Risk Evaluation, lines 30-34, page 3-4

Permittee Statement: "Screening levels are the NMED SSLs for the soil to groundwater pathway, published in March 2017, except for arsenic which is the site-specific background level of 5.6 mg/kg. When an NMED SSL is not published, the USEPA Soil RSL from November 2017 was used in the evaluation. When neither an NMED SSL nor USEPA RSL is published, a surrogate compound was selected and used in the evaluation."

NMED Comment: The soil-to-groundwater SL for arsenic is based on the background concentration. The 2017 NMED SL for arsenic is 5.83 mg/kg based on a DAF of 20. This SL rather than background must he used to assess the soil-to-groundwater pathway for arsenic. Revise the Report and update applicable tables, accordingly. This comment also applies to the *Human Health Risk Evaluation* in Sections 4.6 and 5.6.

22. Section 3.6.1 Data Used in the Evaluation & Identification of COPCs, lines 35-36, page 3-5

Permittee Statement: "August 2014 – Samples were collected from two areas associated with SWMU 9 – POL Discharge Area as follows: [within the footprint of the POL Discharge Area and an area of stained soils located approximately 100 feet southeast of the POL Discharge Area]."

NMED Comment: The area within the footprint of the POL Discharge Area was apparently unrelated to the disposal of waste oils. The majority of data points used for risk evaluation was collected from the unrelated area where contamination was not detected; therefore, the risk evaluation is not representative of the actual area where petroleum, oil, and lubricants were disposed. The risk must he reevaluated once the actual POL disposal area is fully characterized. The reporting direction is provided in the last paragraph of this letter.

23. Section 3.6.1, Data Used in the Evaluation & Identification of COPCs, lines 21-33, page 3-6

Permittee Statement: "Total chromium – Trivalent chromium was selected because hexavalent chromium is not known to be present at SWMU 9. The following lines of evidence support that hexavalent chromium is not expected to be present:

- o Hexavalent chromium is not stable in the environment in the presence of oxidizable organic matter and readily converts to trivalent chromium (ATSDR, 2012a).
- o Chromium is a component in stainless steel products, alloys, metal finishes, tanning products, and pigments, with hexavalent chromium used primarily in metal finishes and tanning products. The primary uses of chromium are in the metallurgical, refractory, and chemieal industries, none of which occurred at FWDA (ATSDR, 2012a). It is possible that some metals products containing chromium were disposed at FWDA, but the lack of metal products in soil and the preference for hexavalent chromium to convert to trivalent chromium indicates the low likelihood that hexavalent chromium is present."

NMED Comment: The lines of evidence (LOE) are not sufficient to make the determination that all chromium detected in total chromium analyses is chromium III. Until the Permittee provides analytical laboratory speciation data indicating that all of the total chromium exists as chromium III versus chromium VI, the screening levels for total chromium must be used for exceedance evaluation and risk assessment. This applies to all sections of the report where total chromium is discussed. Revise the Report to use the appropriate screening levels for total chromium in all screening level comparison tables and risk assessments.

24. Section 3.6.6.2.4, Refinement 4 – Lines of Evidence Discussion, lines 36-40, page 3-16

Permittee Statement: "Given that lead is found at levels largely consistent with background conditions, has a preference to sorb to soil under the alkaline conditions found at SWMU 9, and that regional weather conditions limit the amount of precipitation that could contribute to leaching, the likelihood that lead concentrations in soil at the SWMU 9 Boundary Exposure Area are contributing to degraded water quality is low."

NMED Comment: The highest lead concentration was reported as 1,190 mg/kg, significantly bigher than the background lead concentration of 12.4 mg/kg. The detected lead concentrations were not consistent with background conditions. Remove the inaccurate statement from the revised Report. In addition, the site's generic soil condition (alkaline condition) may not be representative of the soil conditions where petroleum, oils, lubricants, and solvents were disposed. The disposal practice may have altered the physical, chemical, and microbiological properties of soils; subsequently, the preference to sorb lead may have been altered. The sorption capacity of lead in the contaminated soils, rather than clean native soils, must be demonstrated if the line of evidence is pursued. The factors that affect the sorption capacity also appear to be more complex than soil pH alone. The Permittee must demonstrate that lead detected in soils at the actual POL site is not mobile and will not leach into groundwater or they must remove the LOE from the revised Report. If the Permittee elects to demonstrate the sorption capacity of lead in the contaminated soil, a detailed plan for the demonstration (e.g., bench-scale study) must be included in the Work Plan required by Comment 3.

25. Section 3.6.6.3, Vapor Intrusion Pathway Evaluation, lines 4-5 and 8-10, page 3-20

Permittee Statements: "The vapor intrusion pathway is considered potentially complete at SWMU 9 because volatile analytes were detected and are potentially toxic through inhalation."
and,
"Therefore, the qualitative discussion below presents the lines of evidence to support why the Army believes the vapor intrusion pathway does not require further evaluation at SWMU 9."

NMED Comment: VOCs were detected at SWMU 9. LOE were provided to address potential exposure via the vapor intrusion pathway. Most of the soils impacted by VOCs are proposed for removal according to Seetion 3.8, *SWMU 9 Conclusions and Recommendations.*

A re-evaluation of this pathway must be conducted using post-removal data. Modify the comment in the revised Report accordingly.

26. Section 3.6.8, Uncertainty Discussion, lines 1-3, page 3-26

Permittee Statement: "All of the analytes listed above do not have uses relevant to historical operations at SWMU 9. The Army believes it was appropriate to eliminate these analytes as COPCs and proposes no further action relating to compounds discussed in this section."

NMED Comment: The rational for elimination from the risk assessment is that all of the analytes listed do not have uses relevant to historical operations at the Facility. This is not accurate. For SWMU 9, waste operations included the dumping of waste oils and solvents. While it is acknowledged that some of the compounds may not be site related, many of the constituents listed are solvents or indicator compounds for total petroleum hydrocarbons. Since there is uncertainty regarding the presence of these constituents at levels above SLs but below levels of quantification, it is possible that they are present and could contribute to groundwater contamination. These compounds must be retained as COPCs and evaluated in the SL comparison. Revise the Report accordingly.

27. Section 4.1.1, Location, Description, and Operational History, lines 24-25, page 4-1

Permittee Statement: "Based on the available historical information, the approximate use of this area can be traced back to sometime between 1935 and 1948 and it appears inactive by 1973."

NMED Comment: Asbestos-containing materials (ACM) have been found at other sites where buildings were constructed during a similar time frame. An inspection for ACM must be conducted during the investigation in accordance with Permit Section VIII.A.1.e. If ACM is found, the soil must be analyzed for the presence of asbestos. Propose to submit a work plan to investigate the presence of ACM in SWMU 25, where applicable, in the revised Report.

28. Section 4.4.1, Soil Characterization, lines 26-29, page 4-3

Permittee Statement: "Two proposed sample locations within Feature 5, 0725F5SB017 and 0725F5SB019, were relocated at the request of NMED to locations where dark areas were observed on historical aerial photographs. Correspondence documenting this agreement with NMED is included in Appendix A."

NMED Comment: Appendix A does not include the NMED's specific request for relocating sample locations 0725F5SB017 and 0725F5SB019. Include the correspondence in the revised Report. Nevertheless, sample locations 0725F5SB017 and 0725F5SB019 were not relocated to the dark stained area according to Figure 4-4. Comment 5 in the January 31, 2014 *Approval with Modifications* directs the Permittee to conduct an investigation that is

more inclusive of the total scarred earth. Only one soil sample (0725F5SS003) was collected from the dark stained area according to Figure 4-4. Although the dark stained area is easily visible from the aerial images, the Permittee did not collect a sufficient number of samples from the dark stained area. Rather, the Permittee collected seven soil samples outside the boundary of Feature 5, at locations seemingly unrelated to soil contamination. The soil data collected outside the boundary of Feature 5 may cause an underestimation of risk. Submit the Work Plan required by Comment 3 to advance three soil borings within the footprint of the dark stained area. Collect two surface soil samples per boring location (total of six surface soil samples); the surface soil sampling method must be consistent with the 2014 investigation (one for 0.0 to 0.5-foot and the other for 0.5 to 1.0-foot depth intervals). Each soil boring must be advanced to depths of ten feet bgs with samples collected at five and ten feet bgs; the subsurface soil sampling method must be appropriate for the target analytes. These soil samples must be analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs, VOCs, explosive compounds and dioxins/furans. Revise the Report accordingly.

29. Section 4.4.2, Investigation Trenching, lines 6-7 and 10-11, page 4-4

Permittee Statements: "All trenches were excavated to a depth of approximately 5 feet bgs."
and,
"Photographs 4-1 through 4-6 document the trenching activity."

NMED Comment: The depth of the trenches looks to be less than five feet from the photographs. Confirm the depths of the trenches in the revised Report. If field notes recording the activity are available, include them in the revised Report. A test pit investigation is more appropriate at the dark stained area and the vicinity of boring OTB03, where an elevated copper concentration was detected at five feet bgs. Propose the excavation of test pits at the location of dark stained area and at the vicinity of boring OTB03 in Feature 5 in the Work Plan required by Comment 3.

30. Section 4.6.1, Data Used in the Evaluation & Identification of COPCs, lines 8-9, page 4-7

Permittee Statement: "[The surrogate analyte for the detected] Total chromium [is] Trivalent chromium[.] [Trivalent chromium] was selected because hexavalent chromium is not known to be present at SWMU 25."

NMED Comment: Refer to Comment 8 in NMED's August 7, 2017 *Disapproval.* The comment states that unless speciated data are available and/or sufficient LOE are provided to support an assumption of 100% trivalent chromium, the soil screening levels for total chromium should be applied in the risk assessments. Soil screening levels for total chromium and trivalent chromium are 96.6 and 117,000 mg/kg, respectively. The screening level for total chromium provides far more conservative value; therefore, is more protective of human health. Total chromium is not present in SWMU 25 at a level sufficient to drive the risk assessments at this time. However, the screening level for total chromium must be

used for risk evaluation. Revise the Report accordingly.

31. Section 4.6.3.2, Beef Ingestion, lines 34-37, page 4-8

Permittee Statement: "However, the physical characteristics of the water-bearing zones present at FWDA, and the limited volume encountered during historical groundwater monitoring and hydrogeological studies, suggest that insufficient groundwater is available to sustain human or animal use."

NMED Comment: There is a production well (Well 69) in Parcel 11 installed in the San Andres-Glorieta aquifer. The same aquifer is likely present beneath Parcel 7. If future residents elect to install a production well and use the groundwater for grazing cattle, the beef ingestion pathway is potentially complete. Evaluate the pathway in the revised Report. This comment also applies to Section 5.6.3.2.

32. Section 4.6.4.1, Historical Risk Screening Results, lines 33-34, page 4-9

Permittee Statement: "One metal, copper, was detected at a concentration of 4,100 mg/kg, exceeding the SSL of 3,130 mg/kg."

NMED Comment: The exceedance was detected from the soil sample collected from boring OTB03 at a depth of five feet bgs. The copper concentrations in the soil samples collected from the same boring OBT03 at the depths of one and ten feet bgs were recorded as 10 and 6.02 mg/kg, respectively, according to Table 4-1, *Summary of Detectable Concentrations for Previous Soil Sample Analyses at SWMU 25.* The exceedance appears to be limited to an approximate depth of five feet bgs at the location. The most elevated copper concentration among the shallow soil samples (0-1-foot bgs) collected from the vicinity of boring OBT03 was recorded as 20.4 mg/kg (0725F5SS016-0.5-1.0DSO-DUP) according to table 4-2A. The shallow soils in the vicinity of OBT03 appear to be unaffected. Waste/debris containing copper may have been buried beneath the ground surface. Propose the excavation of test pits in the vicinity of OBT03 in the Work Plan required by Comment 3. In addition, three soil borings must be advanced to ten feet bgs in the vicinity of OBT03 to determine the extent of elevated copper concentrations. The Permittee must also propose the installation of three soil borings in the vicinity of OBT03 to collect soil samples at depths of one, five and ten feet bgs in the Work Plan required by Comment 3. The soil samples (total of nine samples) must be analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs, VOCs, explosive compounds and dioxins/furans.

33. Section 4.6.6.2.1, Refinement 1 – Refined Exposure Concentration, lines 26-31, page 4-13

Permittee Statement: "The single elevated arsenic concentration is believed to be representative of background levels at SWMU 25 because there is no known source of arsenic in this area of Parcel 7. Arsenic is used in a wide range of applications, including wood preservatives, agricultural chemicals, as an alloying element in ammunition and

solders, as anti-friction additive in bearings, semi-conductors for telecommunications, and medicinal uses (ATSDR, 2007a)."

NMED Comment: Section 4.1.1, *Location, Description, and Operational History,* does not provide enough information to conclude that the elevated arsenic concentration is representative of background levels at SWMU 25. Although arsenic was not used in a manner described at the site, wood pieces treated with arsenic or metal containers containing arsenic residues may have been burned at the site. Propose to collect step-out samples five to ten feet in all directions at a depth that correlates to the contaminant detections in the Work Plan. Also, propose to collect a deeper sample at the same location at sample 0725F2SS009 in the Work Plan.

34. Section 4.6.6.2.1, Refinement 1 – Refined Exposure Concentration, lines 1-9, page 4-14

Permittee Statement: "The single elevated detection of copper could have resulted from disposal of materials containing copper at SWMU 25, since copper is used in a wide range of products, such as electrical, plumbing, automotive, telecommunications, air condition, industrial valves and fittings, agricultural fungicides and algicides, wood preservatives, electroplating, dye manufacture, and petroleum refining (ATSDR, 2004b). However, the production of products using copper did not occur at SWMU 25. The lack of widespread copper detections at levels above its screening level or significantly greater than the high end of copper's background range indicate there is no unacceptable noncancer hazard from exposure to copper at SWMU 25."

NMED Comment: Further investigation is warranted in the vicinity of boring OBT03 and the dark stained area. The risk assessment is not conclusive until further investigation is complete. Remove or revise the statement in the revised Report, as necessary.

35. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, line 37, page 4-17, lines 1-2, 35, page 4-18, lines 3-5, 11-13, page 4-19

Permittee Statements: "These estimated cancer risks were based on use of the maximum detected [pesticide] concentration as a result of the low frequency of detection (less than 2%) in the SWMU 25 data set of more than 200 samples."
and,
"However, this COPC [2-hexanone] was detected only once in more than 200 samples."
and,
"However, neither analyte [bromodichloromethane or dichlorobromomethane] was detected more than twice in more than 200 samples demonstrating that these COPCs are infrequently detected at SWMU 25, and these detections are not representative of concentrations across SWMU 25."
and,
"However, the estimated noncancer hazard was based on use of the maximum detected [antimony] concentration as a result of the low frequency of detection (less than 2%) in the SWMU 25 data set of more than 200 samples."

NMED Comment: While the detection of these constituents is rare, it should be noted that only one soil sampling location (0725F5SS003) was included in the dark stained area. The probability of detections may be underestimated due to numerous data points collected outside of the potential hotspot. An investigation of soils within the dark stained area is required. The LOE are not acceptable because the investigation was not conducted appropriately at SWMU 25. Remove or revise the statements in the revised Report.

36. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 25-29, page 4-18

Permittee Statement: "Review of laboratory reports indicates that methylene chloride was detected in equipment blanks, trip blanks, or lab blanks which provides evidence that it is introduced. The lack of variability in concentration[s] across SWMU 25 provides further evidence that this COPC is introduced via lab contamination and not as the result of a spill or release."

NMED Comment: The Permittee must direct the analytical laboratory to take measures to minimize contamination associated with methylene chloride in all future investigations. In addition, provide a table that shows all detected methylene chloride concentrations in soil samples and blanks. Include the table to validate the LOE in the revised Report.

37. Section 4.6.6.2.4, Refinement 4 - Qualitative Lines of Evidence Discussion, lines 25-29, page 4-20

Permittee Statement: "Given that lead has a preference to sorb to soil, that soil pH conditions are alkaline at SWMU 25, and that regional weather conditions limit the amount of precipitation that could contribute to leaching, the likelihood that lead concentrations in soil at SWMU 25 are contributing to degraded water quality is low."

NMED Comment: The Permittee provided similar discussion regarding the elevated lead contamination in SWMU 9 (see Comment 24). If the Permittee elects to demonstrate the sorption capacity of lead in the contaminated soil, a detailed plan for the demonstration (e.g., bench-scale study) must be included in the Work Plan required by Comment 3.

38. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 37-38, page 4-20

Permittee Statement: "Contamination is Surficial – Past activity at SWMU 25 was limited to surface disposal of solvents."

NMED Comment: The copper concentration in the soil sample collected from boring OTB03 at a depth of five feet bgs exceeded the screening level. Therefore, the statement is not accurate; contamination is not limited to surficial soils. Also, the vertical extent of contamination was not investigated in the dark stained area. Remove the statement in the revised Report. Also, provide information regarding the solvents that were disposed at the

site (e.g., chemical names and if known, volumes) in the revised Report. Explain the nature of the disposal activity and whether containerized or liquid solvents were burned or directly drained on the ground surface at the site.

39. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 1-2, page 4-21

Permittee Statement: "Lack of Liquid Source – The presence of a liquid source, natural or man-made is required to mobilize analytes."

NMED Comment: The statement is not accurate. Rainwater and snowmelt are present at the site and may infiltrate the soils and mobilize the analytes to the aquifers. Refer to Comment 42 below. Remove the statement from the revised Report.

40. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 8-11, page 4-21

Permittee Statement: "Benzene was detected in only seven out of 201 samples (3%). This does not constitute an infinite source of benzene and demonstrates that benzene is not migrating vertically over a large portion of SWMU 25."

NMED Comment: The dark stained area was not investigated for benzene contamination. Since benzene contamination has not been fully investigated, the possibility of benzene migrating vertically is uncertain. This comment also applies to the discussions regarding dieldrin, heptachlor epoxide, naphthalene, antimony, and lead in Section 4.6.6.2.4. Remove the statements from the revised Report.

41. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 14-19, page 4-22

Permittee Statement: "The PAHs made of four or fewer aromatic rings (like naphthalene) may be degraded through microbial metabolism, photolysis and oxidation (ATSDR, 1995b). Studies suggest that the half-lives of PAHs in soil with three or fewer rings (like naphthalene) are generally less than 20 days, and the results for two ring PAHs (naphthalene is a two-ring PAH) indicate a half-life in soil of approximately 2 days."

NMED Comment: The burning activities ceased by 1973 while PAHs were still detected in 2014. The PAH concentrations in soil sample 0725F5SS003 collected from the dark stained area indicate that the initial estimated PAH concentrations at a time when disposal/burning activity occurred would significantly exceed the soil-to-groundwater screening levels based on their half-lives. Due to the severity of initial contamination associated with PAHs, the groundwater quality at SWMU 25 may have already been degraded. Propose to install a groundwater monitoring well to evaluate groundwater quality in the vicinity of the dark stained area in the Work Plan required by Comment 3. Propose to collect groundwater samples from the well in the Work Plan.

42. Section 4.6.6.2.4, Refinement 4 – Qualitative Lines of Evidence Discussion, lines 22-27, page 4-22

Permittee Statement: "Prevailing Weather Patterns – FWDA receives less than 12-inches of precipitation annually (www.usclimatedata.com/climate/gallup/new-mexico/united-states, accessed December 4, 2017). The high evaporation rates typical in a desert setting, coupled with low annual average precipitation and a depth to groundwater of approximately 50 to 70 feet bgs, indicate that it is extremely unlikely for analytes to be able to migrate vertically from surface soils to the water table at FWDA."

NMED Comment: The Permittee failed to include that the average annual snowfall is shown as 35 inches according to the website in the statement. Snow eventually melts and infiltrates the soil matrix. Revise the statement to include this fact. In addition, although total annual rainfall is low, rainfall often comes intensely in a short period of time in New Mexico (e.g., monsoon season). As a result, water on the surface may not evaporate immediately and the runoff may pool or follow the least resistant pathways and infiltrate into the subsurface. The intense rainfall may accelerate migration of contaminants from soils to groundwater. Contaminants have migrated from surface/shallow soils to the water table at various sites within FWDA. Reevaluate the risk and correct the statement in the revised Report.

43. Section 4.6.6.3, Vapor Intrusion Pathway Evaluation, lines 23-25, page 4-24

Permittee Statement: "Review of laboratory reports indicates that acetone, bromodichloromethane, dibromochloromethane, and methylene chloride were detected in equipment blanks, trip blanks, or lab blanks which provides evidence that these analytes are introduced [from laboratory]."

NMED Comment: The Permittee must direct the analytical laboratory to take measures to minimize contamination in all future investigations. In addition, provide a table that lists all detected VOC concentrations in soil samples and blanks. Include the table to support the LOE in the revised Report. Combine the information with the content of the table required by Comment 36.

44. Section 4.6.6.3, Vapor Intrusion Pathway Evaluation, lines 32-34, page 4-24

Permittee Statement: "SWMU 25 – Feature 2. The volatile analytes detected include two PAHs (benzo(a)anthracene and naphthalene) and one VOC (acetone) that meet the NMED criteria for volatility and toxicity through inhalation."

NMED Comment: The Permittee provides a discussion for acetone detection in the following paragraph in the Report; however, a discussion of the detected PAHs was not provided. Regardless, propose to reevaluate the vapor intrusion pathway once the investigation of the dark stained area is complete in the Phase 2 Investigation Work Plan and revise the risk evaluation in the following report.

45. Section 4.6.7, Risk Evaluation Summary, lines 8-10, page 4-26

Permittee Statement: "Of these four [aluminum, barium, beryllium and mercury], the 95% UCLs for each were less than the construction worker screening level, resulting in noncancer hazard contribution at levels less than the NMED target risk threshold of 1.0."

NMED Comment: As previously stated, only one sampling location (0725F5SS003) was included in the dark stained area. The highest level of contamination is potentially located in the dark stained area. The risks must be reevaluated after the Phase 2 Investigation is complete.

46. Section 4.7.1, Data Used in the Evaluation & Identification of COPCs, lines 28-30, page 4-36

Permittee Statement: "Samples collected in August 2014 were analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs (including PAHs), VOCs, and selected explosives. Selected samples were also analyzed for dioxins/furans."

NMED Comment: Table 4-2A and Table 4-2B do not identify which soil samples were analyzed for dioxins/furans as the tables only list detected constituents. Identify the samples that were analyzed for dioxins/furans in the revised Report.

47. Section 4.6.8, Uncertainty Discussion, lines 25-26, page 4-29 and lines 19-20, page 30

Permittee Statements: "Fifty of the 77 analytes were eliminated as COPCs based on the lines of reasoning presented below,"
and,
"The remaining 25 analytes are comprised of three explosives, 12 SVOCs and 10 VOCs having LOQs and LODs greater than the groundwater protection SSL."

NMED Comment: Uncertainty discussion was provided for 75 analytes whose LOQs are greater than the screening levels. No discussion is provided for the remaining two analytes. Clarify the discrepancy or provide uncertainty discussion for the remaining two analytes in the revised Report.

48. Section 4.6.8, Uncertainty Discussion, lines 26-29, page 4-32

Permittee Statement: "All of the analytes listed above do not have uses relevant to historical operations at FWDA or are not known to have been used at FWDA. It is appropriate to eliminate them as COPCs. The Army believes it was appropriate to eliminate these analytes as COPCs. The Army proposes no further action relating to compounds discussed in this section."

NMED Comment: The rational for elimination from the risk assessment states that all of the analytes listed do not have uses relevant to historical operations at FWDA. However, at

SWMU 25, waste operations included the burning of trash. No other description has been provided to justify what was considered trash. Based on historical operations from military installations, burning operations often included an array of items. While it is acknowledged that some of the compounds addressed in Section 4.6.2 may not be site related, some of the constituents listed are common by-products of burning (PAHs) and are indicator compounds for petroleum hydrocarbons or are related to explosives (hexachlorobenzene). While the operations consisted of burning, there is no discussion on whether liquids were burned and/or used as accelerants (e.g., hydrocarbon-based fuels). As there is uncertainty as to presence of these constituents at levels above SSLs but below levels of detection, it is possible that they are present and could contribute to groundwater contamination. The uncertainty analysis must include a discussion of the physical-chemical properties as another LOE to support the elimination of these compounds as COPCs. As noted in Comment 5, risk and/or hazard is not to be calculated for the soil-to-groundwater screening pathway. Therefore, retaining these compounds as COPCs for the soil-to-groundwater SL evaluation does not impact risk, but rather provides evaluation of the potential for these compounds to impact groundwater. Revise the Report accordingly.

49. Section 5.6.8, Uncertainty Discussion, lines 9-12, page 5-26

Permittee Statement: "While no individual congener was detected at a concentration greater than a screening level, the highest calculated dioxin/furan [toxic equivalent] TEQ did exceed the 2,3,7,8-TCDD screening level. The dioxin/furan TEQ was further evaluated in the risk evaluation and found not to contribute to unacceptable cancer risks."

NMED Comment: It is not clear how the exceedance of dioxin/furan TEQ does not contribute to unacceptable cancer risks. Explain how the conclusion was drawn in the revised Report. In addition, the exceedance was detected at sampling location 0743RCYSS010 according to Figure 5-3, *Railroad Classification Yard – Exceedance Area Map*. The extent of contamination is not delineated at sample location 0743RCYSS010. Propose to collect step-out and deeper soil samples to assess the lateral and vertical extent of dioxin/furan TEQ contamination along the railroad tracks in the Work Plan required by Comment 3.

50. Section 5.8, Conclusions and Recommendations, lines 38-40, page 5-35

Permittee Statement: "The Navajo Nation and the Pueblo of Zuni have expressed an interest in continuing the use of the railyard for its intended purpose and for this reason, the Army recommends no further action."

NMED Comment: NMED has not received a confirmation for continuing use of the railyard from the Navajo Nation or the Pueblo of Zuni or of acceptance of properties where cleanup is incomplete. Therefore, the Army's basis for recommending no further action at the site is premature. Revise the statement as necessary.

51. Table 3-2A, SWMU 9 – POL Waste Discharge Area Sample Result Detections (August 2014) – Direct Contact Screening, p 3-T9 and Table 4-2A, SWMU 25 - Trash Burning Ground Property Disposal Office Sample Result Detections (August 2014) - Direct Contact Screening, p 4-T13, etc.

NMED Comment: Tables 3-2A, 4-2A, and others list detections for all analytes. This is a departure from the standard practice of presenting data in tables based on the analytical group (e.g., a table for VOCs, a table for SVOCs, a table for metals, etc.). Presenting data for all analytes in one table increases review time for a document based on the difficulty of finding a specific analyte for a specific sample in a single 135-page table (Table 4-2A). Revise the Report to present data in tables specific to analyte groups as has been performed in the past. This applies to all tables where data is presented in this and all future documents.

52. Table 3-3A, SWMU 9 - POL Discharge Area - Quantitation Limits Compared to Human Health Soil Screening Levels - Direct Contact, p 3-T25 and Table 3-3B, SWMU 9 - POL Discharge Area - Quantitation Limits Compared to Human Health Soil Screening Levels - Groundwater Protection, p 3-T29, etc.

NMED Comment: According to Tables 3-3A and 3-3B, there were 14 analytes with quantitation limits that exceeded the residential soil screening levels and 67 analytes with quantitation limits that exceeded the NMED soil-to-groundwater soil screening level. Quantitation limits that exceed screening levels make it impossible for the Permittee to demonstrate, or for NMED to defend, that contamination is not present at unacceptable concentrations at the facility. The Permittee must make a demonstrated effort to identify analytical laboratories that can achieve appropriate quantitation limits below the screening levels.

53. Figure 3-2, SWMU 9 - POL Waste Discharge Area - Previous Sample Locations, p 3-F2

NMED Comment: The location of well FW26 appears to have moved. Figures provided in the *2013 Final RCRA Facility Investigation Work Plan and Historical Information Summary Document Parcel 7* (2013 Work Plan) indicate that well FW26 is located approximately 30-feet outside of the SWMU 9 boundary. Figures provided in the Report indicate that well FW26 is located inside the SWMU 9 boundary. No discussion was provided regarding well FW26. Resolve the discrepancy and provide a discussion of why the well location was moved on maps (if the current Report maps are correct) in the revised Report.

54. Appendix B – Data Validation Reports, p B-1

NMED Comment: The Permittee has provided Appendix B, Data Validation Reports. However, multiple data validation reports are included in other appendices, such as Appendices F and N. Include data validation reports in the Data Validation Reports appendix in the revised Report.

The Permittee must submit a Phase 2 Investigation Work Plan required by Comments 3, 19, 20, 28, 29, 32, 33, 41, and 49 in this Disapproval no later than **September 5, 2019**. The Permittee must submit a revised Report that addresses all comments contained in this Disapproval. In addition, the Permittee must include a response letter that cross-references where NMED's numbered comments were addressed. The Permittee must also submit an electronic redline-strikeout version of the revised Report showing all changes that have been made. The revised Report must be submitted no later than **April 30, 2019**.

Should you have any questions, please contact Michiya Suzuki of my staff at (505) 476-6059.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
B. Wear, NMED HWB
M. Suzuki, NMED HWB
C. Hendrickson, U.S. EPA Region 6
L. Rodgers, Navajo Nation
S. Begay-Platero, Navajo Nation
M. Harrington, Pueblo of Zuni
C. Seoutewa, Southwest Region BIA
G. Padilla, Navajo BIA
J. Wilson, BIA
B. Howerton, BIA
R. White, BIA
C. Esler, Sundance Consulting, Inc.

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Army Response to NMED Disapproval Letter (dated October 29, 2018) on the Final RFI Report, Parcel 7, Revision 1

NMED Comment #	Section/Topic	Line #/Page #	Permittee Statement	NMED Comment	Permittee Response
1	Response to NMED's Comments (RTC) Letter	N/A	N/A	Not all revised sections, tables, and/or figures are referenced in the RTC letter. The RTC letter must identify all revised parts of the Report required by the NMED comments. Ensure that the RTC letter is accurate and complete for all future submittals.	Concur. As discussed with NMED on October 24, 2024 in Santa Fe, New Mexico, the Army has withdrawn the RCRA Facility Investigation (RFI) Report and prepared a Supplemental RFI Work Plan that maximizes the use of previously collected data and proposes to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re-written. Going forward, references to revised sections, tables, and/or figures will be addressed so that RTC letters are accurate and complete for all future submittals.
2	Redline Strikeout (RLSO) Version of the Report	N/A	N/A	The report was revised extensively; however, all revisions were not identified in the RLSO version. For example, although many new sections, tables, and figures were added to the revised Report, these changes were not identified in the RLSO version. Similarly, new acronyms and abbreviations were added to the *List of Acronyms and Abbreviations* ; however, most of the new acronyms and abbreviations were not identified in the RLSO version. The RLSO version must identify all revisions made to the previous version of the Report. Failure to provide in accurate RLSO version slows review, creates the potential for changes to be overlooked, and the inability to identify changes to a document can be misleading.	Concur. The Supplemental RFI Work Plan and Report will be new deliverables that are completely re-written. Accurate RLSOs that identify all revisions will be provided on this Work Plan and any subsequent reports.
3	Investigation in SWMU 25	N/A	N/A	Comment 5 in the NMED's *Approval with Modifications for RCRA Final Facility Investigation Work Plan and Historical Information Summary Document Parcel 7* , dated January 31, 2014, directs the Permittee to propose to conduct an investigation that is more inclusive of the total scarred earth as seen in the [SWMU 25) aerial images. The dark stained area is clearly visible within Feature 5 according to *Figure 4-2, SWMU 25 - Trash Burning Ground Property Disposal Office - Previous Sample Location* . The comment instructs the Permittee to investigate the area; however, no soil borings were advanced and no investigative trenches were installed within the dark stained area. Only one surface soil sample (0725F5SS003) was collected within the dark stained area. The Permittee did not fully investigate the dark stained area despite the NMED's direction. Similarly, SWMU 9 was investigated, and an exposure concentration for the stained area was improperly calculated (See Comment 10 in the NMED's *Disapproval for Final RCRA Facility Investigation. Report Parcel 7* , dated August 7, 2017). The nature and extent of contamination has not been defined correctly at SWMUs 9 or 25; therefore, sample distribution is not representative of actual contamination at the SWMUs. While further investigation and remediation activity was proposed for the stained area in SWMU 9 in the Report, no further investigation was proposed for SWMU 25. The Permittee must investigate the dark stained area in SWMU 25 and reevaluate the risk. Submit a Phase 2 RCRA Facility Investigation Work Plan (Work Plan) to propose further investigation in the dark stained area found within SWMU 25 no later than **September 5, 2019** .	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.7. An exposure concentration for the stained area in SWMU 9 will be recalculated in the RFI Report. Risks will be reevaluated as discussed in Section 7.0 of the Supplemental RFI Work Plan.
4	Screening Levels	N/A	N/A	The risk assessment was generally revised in accordance with the NMED's *Risk Assessment Guidance for Site Investigations and Remediation* (Guidance) dated March 2017. Comment 4 in the NMED's *Disapproval for Final RCRA Facility Investigation Report Parcel 7* , dated August 7, 2017, indicated that the most current guidance (2017) should be used for the risk assessment unless a risk assessment was already underway; in this case, older guidance was allowed. However, the comment specifically states, "[a]s such, the risk assessments should have been conducted following the 2017 guidance." The risk assessments were updated to follow the methodology in the 2017 guidance, but the 2017 residential soil screening levels (SSLs) were not incorporated into the updated assessment of risk and hazard based on direct contact exposures. Section 2.6.1 *Regulatory History* , states that NMED did not require a response to Comment 4; thus, the current risk SSLs were not used for evaluating direct contact pathways. The 2017 SSLs should have been incorporated into an updated assessment of risk and hazard via direct contact pathways. Use of the methodology in the 2017 Guidance requires use of the 2017 Guidance SSLs. The Permittee cannot use more than one assessment guidance document. Specific constituents where use of the 2017 SSLs would have resulted in lower estimates of risk include arsenic (2017 SSL is 7.07 mg/kg compared to 2012 SSL of 3.9 mg/kg) and polycyclic aromatic hydrocarbons (PAHs) (2017 SSL for benzo(a) pyrene is 1.12 mg/kg compared to 2012 SSL of 0.148 mg/kg). Since refined assessments resulted in acceptable risk levels, the use of the 2017 SSLs would not have changed the overall results of the assessments. However, use of the current SSLs would have resulted in less costly assessments since the refinements and justifications needed to address uncertainties would likely have been less extensive. Revise the Report accordingly.	Concur. The new RFI Report will contain a new Risk Assessment that will follow the most recent guidance (currently *NMED Risk Assessment Guidance for Site Investigations and Remediation. Volume I Soil Screening Guidance for Human Health Risk Assessments* published in November 2022 and *Volume II Soil Screening Guidance for Ecological Risk Assessments* published in March 2017) as described in the Supplemental RFI Work Plan, Section 7.0 - Evaluation of Human Health and Ecological Risks.

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5	Soil-to-Groundwater Screening Analyses	N/A	N/A	For the soil-to-groundwater screening analyses, risks were calculated using constituent-specific concentrations in the subsurface and the generic soil-to-groundwater screening levels (SLs) for a dilution attenuation factor (DAF) of 20 taken from the 2017 Guidance. The estimated risks are presented in the discussions and tables for all sites evaluated in Parcel 7. The soil-to-groundwater SLs address the potential leaching of contaminants from the vadose zone to groundwater and incorporate chemical and physical properties of the constituents. The soil-to-groundwater SLs are not truly risk-based numbers; therefore, estimations of risk for soil-to-groundwater should not be conducted and should not be included in cumulative risk/hazard estimates; comparison to target risk levels is not applicable to the soil-to-groundwater pathway. Rather than estimating risk, soil contaminant concentrations must be compared directly to the soil-to-groundwater SLs to determine if the subsurface soil contamination has the potential to act as a source of contamination for groundwater. If the site concentration is greater than the appropriate soil-to-groundwater SL (e.g., a ratio greater than one), additional investigation is necessary to evaluate potential leaching and migration to groundwater in excess of NMED groundwater protection criteria. Refinements of the soil-to-groundwater pathway do not include evaluation on a target organ- specific basis; again, the soil-to-groundwater SLs are not evaluated as risk-based numbers, and comparison of risk by target organ is inappropriate. Section 4.3 of the 2017 Guidance allows the use of the least conservative soil-to-groundwater SL for the initial soil-to- groundwater SL evaluation (this may be based on a water quality parameter, a contaminant limit, or drinking water standard). Revise all text and associated tables in the Report, removing all estimates of risk/hazard for the soil-to-groundwater pathway. In addition, revise each site-specific discussion of the soil-to-groundwater screening in terms of point comparisons and the identification of constituents that exceed the corresponding soil-to- groundwater SLs. Where soil-to-groundwater SLs are exceeded, additional evaluation following Section 4.3 of the 2017 Guidance is required.	Concur. The RFI Report will contain a new Risk Assessment that will follow the most recent guidance (currently *NMED Risk Assessment Guidance for Site Investigations and Remediation. Volume I Soil Screening Guidance for Human Health Risk Assessments* published in November 2022 and *Volume II Soil Screening Guidance for Ecological Risk Assessments* published in March 2017) as described in the Supplemental RFI Work Plan, Section 7.0 for Evaluation of Human Health and Ecological Risks and Sections 7.1.2 and 7.1.3.4 for the soil leaching to groundwater pathway.
6	95 Percent Upper Confidence Level (95% UCL) of the Mean Calculation	N/A	N/A	As part of the refinement process for exposure point concentrations (EPC) in the risk assessment, a 95 percent upper confidence level (95% UCL) of the mean was calculated. In the event there were three or fewer detects, the median concentration was applied as the EPC. With three or fewer results, calculation of a median is not an acceptable approach. The Guidance clearly states that if sufficient data are not available to calculate a 95% UCL, the maximum detected concentration should be retained as the EPC. A review of EPA risk assessment guidance and recommendations was conducted, and no documentation- could be found to justify use of the median. It is noted that this appears have been applied when calculating risks for the soil-to-groundwater pathway only which, as indicated in Comment 5, is an incorrect methodology for this pathway. Revise the Report to remove the use of median concentrations for EPCs.	Concur. The RFI Report will contain a new Risk Assessment that will follow the most recent guidance (currently *NMED Risk Assessment Guidance for Site Investigations and Remediation. Volume I Soil Screening Guidance for Human Health Risk Assessments* published in November 2022 and *Volume II Soil Screening Guidance for Ecological Risk Assessments* published in March 2017) as described in the Supplemental RFI Work Plan, Section 7.0.
7	Field Method Description	N/A	N/A	A required description of sampling methods utilized in the field was not provided in the Report. References to work plans or standard operating procedures are not sufficient. Provide detailed descriptions of all activities actually performed in the field in the revised Report.	Concur. A description of proposed sampling methods is provided in Section 6 of the Supplemental RFI Work Plan and descriptions of sampling methods utilized in the field will be included in the new RFI Report and other future submittals, as applicable.
8	Electronic Database	N/A	N/A	The Permittee failed to include an electronic database that includes all historical data for Parcel 7 in the Report. For all documents that include analytical data, the Permittee must include a searchable electronic file with all historical data included in a format acceptable to the NMED. Provide the searchable electronic data in the revised Report.	Concur. The historical database and initial RFI database are provided electronically on the work plan CD. Data collected as proposed in the Supplemental RFI Work Plan will be included in the new RFI Report in a searchable electronic format.
9	ProUCL Output Data Files	N/A	N/A	The Permittee provided hard copies of many ProUCL output data files. Hard copies of these files are unneeded and cumbersome. ProUCL output files should be submitted in electronic format only. Remove all hard copy ProUCL output files from the revised Report and include them in electronic version only.	Concur. Rather than hard copies, only electronic ProUCL output files will be provided in future submittals.
10	Analytical Laboratory Reports	N/A	N/A	The Report includes Level IV reports from the analytical laboratories. This has resulted in over 42,000 pages of laboratory reports for this Report. These reports are rarely needed and cumbersome. NMED requests that only Level II analytical laboratory reports be included with all submittals. Revise the Report by removing Level IV analytical reports and including the Level II analytical reports. In addition, for large appendices such as the 34,210-page Appendix F where multiple analytical and quality assurance/quality control reports are included, the Permittee must include descriptive bookmarks indicating where each new report begins.	Concur. Only Level II analytical reports will be included in future submittals of newly collected RFI data. In addition, where multiple analytical and quality assurance/quality control reports are included, the Army will include descriptive bookmarks indicating where each new report begins. The native analytical table will reference the Sample Delivery Group (SDG) referenced in the laboratory report. Please note that Level II laboratory reports are not available for the initial RFI data.
11	Sample to Analytical Laboratory Report Link	N/A	N/A	The Permittee provided large quantities of data with no cross-reference between a specific sample and a specific analytical laboratory report. For this document alone, the Permittee provided over 42,000 pages of analytical laboratory reports with no reference to where a particular sample can be located. For every document that includes analytical data, provide a cross-reference for each specific sample to a specific lab report filename (if multiple files are provided) or to a page number in the appendix. Where the specific lab report can be found (if multiple lab reports are combined into one large file). In this Report, the lab reports are combined into several large files; therefore, the Permittee must provide page numbers for the beginning of the laboratory report that contains the sample. This information can be provided in a new table or in the analytical data electronic database.	Concur. The initial RFI database is provided electronically on the work plan CD. The database contains a column for "lab_sample_id" which should be used to cross-reference a particular sample within the lab reports by searching for it. Analytical data in the new RFI Report will be provided as Level II data in digital format with searchable electronic data tables.

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12	Inaccuracies/Discrepancies	N/A	N/A	The Report contains multiple inaccuracies and discrepancies. A partial list is provided below: a.In the *Executive Summary; ES.2 Scope a/Investigation* , lines 24-26, page ES-1, the Permittee states, "[a] summary of field investigations is included in Table ES-1 and discussed in the individual sections for the parcel 7 SWMUs and AOCs within this RFI Report." Table ES-1 is not included in the Report Include Table ES-1 in the revised Report. b. In Section 3.6.8, *Uncertainty Discussion* , lines 30-31, page 3-23, the Permittee states, "[t]he remaining 29 analytes are comprised of two Aroclors, three explosives, 12 SVOCs and 10 VOCs having LOQs and LODs greater than the groundwater protection SSL." This totals 27 analytes. Confirm the number of samples and correct the statement in the revised Report as necessary. c. In Section 4.4.2, *Investigation Trenching* , lines 5-6, page 4-4, the Permittee states, "[t]hree trenches each approximately 50 feet in length were excavated using a rubber tire backhoe equipped with a 12-inch-wide bucket." Figure 4-3,*SWMU 25 - Features 1 and 2-Soil Sampling and Trenching Locations* , depicts the locations of the trenches. Each trench appears to be approximately 300 feet in length according to the scale provided in Figure 4-3. Resolve the discrepancy in the revised Report. d. Section 4.6.6.2.3, *Refinement 3 - Lines-of Evidence Discussion (Quantitative Revision)* , line 10, page 4-16 starts with "SWMU 9 SS07-SS10 Area- Soil to Groundwater Pathway." The discussion in Section 4.6.6.2,3 is pertinent to SWMU 25. SWMU9 is the POL Waste Discharge Area and is not related to SWMU 25. Correct the statement in the revised Report. e. ln Section 4.7.9, *Uncertainty Discussion* , lines 28-31, page 4-54, the Permittee states, "NMED does not provide LOAEL-based TRVs and/or Effect Concentrations for multiple VOCs and SVOCs that were detected at SWMU 9 so the potential hazard from these analytes was not quantified." The discussion in Section 4.7.9 is related to SWMU 25. The statement references SWMU 9. Revise the statement to reference SWMU 25 and verify that the uncertainty as copied from the SWMU 9 evaluation applies to SWMU 25 in the revised Report. f. Table 4-2A, *SWMU 25 - Trash Burning Ground Property Disposal Office Sample Result Detections (August 2014) - Direct Contact Screening* ,·page 4-T93 and Table 4-2B,·*Trash Burning Ground Property Disposal Office Sample Detections (August 2014) -Soil to Groundwater and Ecological Screening* , page 4-T229, appear to contain typographical errors. Sample ID 0725F5SS003-0.5-1.0 DSOA must be corrected by deleting “A”; otherwise, provide an explanation for differentiating the sample ID from others in the revised Report. g. Table 5-4A, AOC 43 -*Railroad Classification Yard, Cumulative Hazard/Risk Calculations for Detected Analytes, Residential Receptor* ; page 1 of 3, indicates that the maximum detected arsenic concentration did not exceed the background value. However, the maximum detected arsenic concentration is shown as 6.60 mg/kg while the background value is shown as 5.60 mg/kg in the table. The soil-to-groundwater SL, rather than background value, must be used to assess the soil-to-groundwater pathway for arsenic. Refer to Comment 21 below. h. In Figure 4-3, the designation of soil samples collected from SWMU 25 - Feature 1 begins with 0725F1FlSS while the designation of soil samples collected from SWMU 25 -Feature 2 begins with 0725F1F2SS. However, in Table 4-2A and Table 4-2B, the designations of soil samples collected from Feature 1 and Feature 2 begin with 0725F1SS and 0725F2SS, respectively. The designation of the samples is not consistent. Resolve the discrepancies in the revised Report. i. Figure 4-4, SWMU 25 - *Feature .5 - Soil Sampling Locations* , shows each soil sampling location for SWMU 25 - Feature 5 while Figure 4-5,*SWMU 25 - Additional Sampling Areas- Soil Sampling Locations* , shows each sampling location for SWMU 25 near the Property Disposal Office Area. The designations for sample locations 0725F5SB001, 0725F5SB002, 0725F5SB003, 0725F5SB004, 0725F5SB005, and 0725F5S8006 are identical in Figure 4-4 and Figure 4-5. The sample identification (ID) numbers must be different since these samples are collected from different areas. Revise the Report, accordingly. j. In Figure 4-4, the designations of soil samples collected from SWMU 25 - Feature 5 begin with 0725F5S8. However, in Table 4-2A and Table 4 2B, the designations of soil samples begin with 0725F5SS. If these samples are the same, the sample ID must be the same. Resolve the discrepancy in the revised Report. k. In Figure 4-5 the designations of soil samples collected from the Property Disposal Office Area begin with 072SF5SB. However, in Table 4-2A and Table 4-2B, the soil sample IDs begin with 0725F5SS. If these samples are the same, the sample IDs must be the same. Resolve the discrepancy in the revised Report. l. In Appendix A, NMED Correspondence, Response to August 22, 2017 Disapproval Letter, the letter is titled as ''Response to August 22, 2017 Disapproval Letter, Final RCRA Facility Investigation Report Parcel 7." The letter text states, "[t]his letter is in response to your comments presented in the Disapproval Letter dated August 7, 2017... " NMED's Disapproval letter is dated August 7, 2017. It appears that the title of the letter contains a typographical error. Correct the typographical error in the revised Report. The Permittee has presented a document with many inaccuracies and discrepancies. It appears that a quality assurance review was not conducted on the document. Identifying, researching, confirming, and documenting inaccuracies extends review times. Extended review times can result in delays in the review of other documents, as well as delays in the overall corrective action progress at the facility. Ensure that a quality assurance review is conducted on future submittals as this is a recurring issue.	Concur. The Army regrets the presence of inaccuracies and discrepancies in the previously submitted report. The Army has prepared a Supplemental RFI Work Plan that maximizes the use of previously collected data and proposes to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re-written and will include appropriate quality assurance review.

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NMED Comment #	Section/Topic	Line #/Page #	Permittee Statement	NMED Comment	Permittee Response
13	Response to NMED's August 7, 2017 Disapproval Comment 1	N/A	"In subsequent discussions between NMED and the Army, it was agreed that it was not necessary to sample for white phosphorus. The correspondence between NMED and the Army is included in Appendix P of the report. Appendix P also contains documentation supporting this decision."	In Appendix P, Correspondence and Documentation Regarding White Phosphorus, the September 5, 2017 email from Mr. Ben Wear of the NMED to Mr. Steve Smith of the U.S. Army Corps of Engineers (USACE) is provided. The email states, "[t]he justification letter from DJ looks sufficient. Please include this information in the text of the revised report, as well as in the response to comments. NMED prefers that reports include "Deviations" section that details any deviations from the approved work plan and includes justification for said deviations." The justification letter was included in Appendix P; however, the justification and deviation were not discussed in the Report. Revise the Report to include the information that justifies omission of white phosphorus analysis in the "Deviations" section of the Report.	Concur. Section 7.0 of the Supplemental RFI Work Plan describes that a Deviations section will be included in the new RFI Report that will describe deviations that occurred during execution of the Work Plan.
14	Response to NMED's August 7, 2017 Disapproval Comment 8	N/A	'Railroad ties are not tinted with green suggesting [chromium, copper, and arsenic] CCA was not used to preserve the ties in the RCY."	When the Permittee uses an acronym/abbreviation first time in the statement, the acronym/abbreviation must be spelled out unless it is listed in the List of Acronyms and Abbreviations in the Report. "CCA" was listed in the*List of Acronyms and Abbreviations* ; however, "RCY" was neither listed or spelled out. List the abbreviation "RCY" in the*List of Acronyms and Abbreviations* or spell out the acronym in the revised Report.	Concur. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re-written and will spell out acronyms/abbreviations when first used (unless the acronym/abbreviation is listed in the List of Acronyms and Abbreviations).
15	Section 2.6.7.2.2, Application of the FWDA Metals Background Studies	lines 36-40, page 2-14	"The 2010 Shaw background-study provides an unbiased, adequate, and reasonable representation of background conditions at FWDA and can be utilized when evaluation both discrete and incremental sampling methodology (ISM) metals analyses for soil. Consequently, FWDA background study results can be applied to both discrete and ISM samples during the risk evaluation process."	The statement regarding comparison of mixed datasets allows that because the background reference values are based on "unbiased, adequate, and reasonable representations of background conditions", comparison of incremental sample (IS) data to the 2010 discrete data in the 2010 Shaw study is acceptable. IS methodology is designed to reduce variances and small-scale variability. Therefore, IS data are more a reflection of the mean of a dataset rather than the upper tolerance limit (UTL). Comparison of IS data to a UCL would be more appropriate than comparison to a UTL. Intuitively, comparison of a "mean" to an UTL seems conservative and likely to result in decision errors that result in stricter regulation. However, as the data are statistically incomparable, comparisons should be limited to a qualitative discussion at best. While some one-tailed statistical tests might be applied, th level of uncertainty would be high. Thus, NMED does not agree that discrete and IS data may be quantitatively compared at this time and disagrees with the statement. The Permittee must collect IS background data for comparison to the proposed IS data. The comparison of the discrete background data to site IS data may be used as a qualitative line of evidence but may not be used to eliminate an inorganic constituent as a potential constituent of concern. The position of the NMED remains unchanged. If IS are to be used, background IS collection must be conducted to obtain results suitable for quantitative comparison to site IS data. State and Federal regulatory authorities, as well as the developers of ProUCL and IS applications, are aware that at many sites, a large amount of discrete onsite and/or offsite background data are already available which cannot be directly compared. with newly collected IS data. In order to provide a tool to compare the existing discrete background data with actual field onsite or background ISM data, a Monte Carlo Background Incremental Sample Simulator (BISS) module is being developed and evaluated for incorporation into ProUCL. It is noted that BISS will require a large existing discrete background data set. From this background database, it is understood that the BISS module will simulate incremental sampling methodology based on equivalent background incremental samples. The availability of a large discrete background data set collected from areas with geological conditions comparable to the decision units (DUs) of interest is a pre-requisite for successful application of this module. For now, the BISS model has been blocked for public/general use as this module is awaiting adequate guidance and instructions for its intended use on discrete background data sets. As noted in Section 4.4.3.2 of the ITRC Guidance for IS, comparing or combining discrete data and JS data, conceptually, can only be done when specific conditions are met. Furthermore, the guidance allows that one must be very cautious in how information is compared or combined since it is likely that one or more of the conditions presented in the bulleted items below will be violated to some degree. Note that NMED's preliminary evaluation of the currently available information regarding each condition at the Facility is also provided. The discrete background sample locations were based on ecozones with specific locations chosen in the field. The sample locations were random-biased but not statistically determined. Further, the background data. set is comprised of samples collected across various ecozones at the Facility versus specific soil types. Based on the locations and discussion of the discrete background data as provided by the Permittee, there are only five data points available representing Parcel 7. Additional justification is needed that these five samples were statistically located and are of sufficient number for comparison to IS data. The Permittee must demonstrate that the entire database is appropriate for use in Parcel 7. The background data collected as part of the 2010 effort used field screening of samples with a No. 4 screen (4.76 mm). However, Method 8330B uses a No. 10 mesh screen (2 mm). The inclusion of larger particles in the discrete data is likely to result in differences. Further, the discrete data were not ground prior to analyses, but Method 8330B will include grinding of the aliquots before collecting a subsample for analysis. Grinding of the samples will likely result in greater concentrations of metals compared to the discrete data. Given the differences in sample collection methods and processing of the data, there is a potential that the IS data will result in higher metals concentrations compared to the discrete background data. The 2010 background data were based on ecozones rather than soil type. A case will need to be made that the ecozones reflect soil types and conditions. As noted above, there are differences in sample preparation, specifically grinding of samples, that could result in differences in concentrations and add a layer of uncertainty to the comparison of discrete to IS data. The proposed analytical methods must be similar/consistent. This comment has been provided to the Permittee multiple times, yet the practice is continued. Failure to abide by NMED's comments constitutes non-compliance.	Comment acknowledged. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re-written. Background metals will be evaluated following current guidance as described in Section 7 of the Supplemental RFI Work Plan. The background values for soil that will be used to evaluate sample results are presented in Table 6.4.

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16	Section 2.6.7.2.5, Conduct Statistical Evaluation	lines 21-33, page 2-15	"Metals with maximum concentrations greater than background levels and the essential nutrient SSLs from discrete-depth samples may undergo additional evaluation. The additional evaluation may include a comparison of the maximum concentration in the sample set to the maximum concentration in the background data set, comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, comparison of the 95% UCL to the maximum concentration in the background data set, or may proceed to a more robust statistical evaluation as described in Section 2.8.3.2 of the NMED risk guidance using ProUCL statistical software (version 5.1). The more robust statistical evaluation, if performed, includes conducting a two-sample hypothesis test for data sets consisting of at least eight samples and at least five detections, conducting a point-by-point comparison to background levels for data sets that are smaller, and preparation of graphical displays to provide further rationale to determine if metals concentrations are consistent with background levels or elevated-above background-level."	If the maximum detected concentration exceeds the background reference value, the Permittee states that additional evaluation may include a comparison of the maximum concentration in the sample set to the maximum concentration in the background data set, a comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, or a comparison of the UCL to the background range. If data fail the statistical analysis (or there are insufficient data), additional lines of evidence that are appropriate include site history and percentage of non-detects. With the exception of the special case for arsenic at the Facility, NMED does not allow screening of inorganics in either of these two manners. In accordance with the Guidance, if the maximum fails the initial step, then a statistical evaluation is required. As noted in Section 2.8.3.2 of the Guidance, a "simple comparison to a range of data or quartiles are not acceptable lines of evidence" to drop a constituent from the risk assessment. Comparisons of maximum/UCLs and ranges may be only provided in the Uncertainties discussion of the risk assessment. Remove the comparison of the maximum concentration in the sample set to the maximum concentration in the background data set, comparison of the range of concentrations in the sample data set to the range of concentrations in the background data, and the use of the UCL from the site attribution analysis as a means to drop a constituent from the risk assessment. Revise the risk assessments in the Report accordingly.	Comment acknowledged. Per discussions with NMED, the Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re written. Background metals will be evaluated following current guidance as described in Section 7 of the Supplemental RFI Work Plan.
17	Section 1.6.7.1.6, Present Additional Lines of Evidence	lines 12-24, page 2-16	"Arsenic is commonly detected at levels greater than its background level and in some cases greater than the maximum concentration in the arsenic background data set. Therefore, the toxicological profile for arsenic was reviewed to determine if its uses might be associated with historical FWDA operations. Arsenic has been used in a wide range of applications, including wood preservatives, agricultural chemicals, as an alloying element in ammunition and solders, as anti-friction additive in bearings, semi-conductors for telecommunications, and medicinal uses (Agency for Toxic Substances and Disease Registry [ATSDR], 2007a). Its use in wood preservatives and ammunition means there is the potential for arsenic to be site-related. However, wood preserved with arsenicals was most commonly used in residential applications, and it would take a large volume of ammunition to lead to large-scale arsenic contamination. In cases where only a small number of arsenic results exceed the published background level and are consistent with the range of arsenic concentrations in the background data set, arsenic will be identified as not site related."	Arsenic is ruled out as being site related based on site use as defined in the toxicological profile. However, arsenic is retained and evaluated in the risk assessments, which appears to contradict the statement. As arsenic is retained for risk evaluation, the statement must be removed. If applicable, the discussion may *be* included in the uncertainty analyses. However, it should be noted that arsenic is not a risk driver for SWMU 9 and AOC 43 (maximum detections are either less than background or less than the 2017 NMED SSL of 7.07 mg/kg). For SWMU 25, while the maximum detection drives risk, the UCL for arsenic is significantly below the NMED SSL of 7.07 mg/kg.	Comment acknowledged. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent RFI Report will be new deliverables that are completely re-written. Arsenic will be evaluated in the new RFI Report in a manner consistent with NMED guidance and FWDA approved background concentrations. Arsenic will be evaluated following current guidance as described in Section 7 of the Supplemental RFI Work Plan. The background values for soil that will be used to evaluate sample results are presented in Table 6.4.

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18	Section 2.6.7.3, Cumulative Risk Evaluation (Part 3)	lines 3-6, page 2-18	"The *95%* UCLs calculated for the direct contact pathway to evaluate residential receptors were used to evaluate the soil to groundwater pathway because these two exposure scenarios use the same exposure interval (0 to 10 feet).''	Lines of evidence (LOE) have not been provided to demonstrate the spatial distribution of contaminants indicating that there is no trend or pattern to areas exhibiting the highest levels of contamination. In addition, subsurface distribution has not been discussed to show vertical trends and depth of contamination relative to groundwater. Without the above lines of evidence to show that data are sporadic with no areas of localized significance, using the UCL results in the amount of contamination being diffused over a larger area, masking smaller areas of elevated contamination that could impact groundwater. The 2002 *Supplemental Soil Screening Guidance* allows for the use of a mean concentration for comparison to soil-to-groundwater SLs for surface soil only; however, when evaluating subsurface data, only data collected from within a single boring may be used to estimate the mean. The *2002 Supplemental Soil Screening Guidance* further allows that as contamination in these deeper soils is unlikely to be characterized to the same extent as contamination in surface soils, the maximum measured concentration of each contaminant in these borings should be used as a conservative estimate of the mean contaminant concentration for purposes of the initial soil screening evaluation. Surface and subsurface data from across the SWMU may not be combined for a UCL to evaluate potential impacts to groundwater. As the data used to evaluate the soil-to-groundwater pathway includes subsurface soil data (sample interval was 0-10 feet), the initial screening must be based on the maximum detected concentration. In the event that the maximum detection results in an exceedance of the SSL, additional evaluations may be conducted in accordance with the 2017 Guidance. Revise the Report accordingly.	Comment acknowledged. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Initial screening will be based on the maximum detected concentration. In the event that the maximum detection results in an exceedance of the SSL, additional evaluations may be conducted in accordance with the 2022 Guidance.
19	Section 3.4.2, Visual Delineation of Impacted Soil at POL (Petroleum, Oils and Lubricants) Area	lines 17-23, page 3-3	"The first pothole was excavated with a backhoe north of sample location 0709POLSS009 the backhoe was then moved eastward with the final test pit located south of sample location 0709POLSS010. A test pit was excavated near sample location 0709POLSS008 to a depth of 5.25 feet. The test pit identified asphalt material to a depth of approximately 0.8 foot, staining and strong petroleum odor to a depth of approximately 3.5 feet, and slight petroleum odor to the total depth of the test pit (5.25 feet)."	Provide a map that shows the locations of test pits in the revised Report. The Permittee should have collected soil samples from the test pits for analyses of TPH- DRO-extended and lead at a minimum. Conduct laboratory analyses on samples collected during future soil investigations at the site. The petroleum odor was identified from the soils at the deepest point of the excavation (5.25 feet); therefore, vertical extent of the contamination is n delineated: In Section 3.8, *SWMU 9 Conclusions and Recommendations* , the Permittee states, "[a] separate work plan will be prepared to discuss the proposed approach to further evaluation the extent of impacted soil in this area and subsequent removal actions." In the work plan, the Permittee must propose to evaluate both vertical and lateral extents of soil contamination associated with TPH-DRO-extended and lead. Furthermore, installation of monitoring well MW34 was proposed to assess the potential groundwater impact associated with the dark stained area southeast of SWMU 9 in the *Final Groundwater Supplemental RCRA Investigation Work Plan Revision 4* , dated March 23, 2018. Propose to investigate potential impacts to groundwater in the vicinity of the dark stained area in the upcoming Phase 2 Investigation work plan. Include the analytical suite specified in the August 7, 2017 *Disapproval* Comment 6 for the groundwater samples collected from monitoring well MW34.	Concur. Unfortunately, there is no map available with the (legacy) locations of the test pits. The precise locations were not provided in the 2017 RFI Report and no map with the locations has been located. However, the area was delineated with flags and the perimeter was recorded using the GPS unit. As part of the Supplemental RFI Work Plan, the Army proposes to collect step-out samples from around this perimete to evaluate both vertical and lateral extents of soil contamination associated with TPH-DRO Extended and lead as discussed in Section 3.3 and shown on Figure 3.3. Regarding groundwater monitoring well MW34, this well was installed in September 2019 and is included in the *Northern Area Groundwater RCRA Facility Investigation Report, Revision 3, Fort Wingate Depot Activity, McKinley County, New Mexico* (HDR, 2023). The location is shown on Figures 3.1 and 3.2. Lead has not been detected above screening levels in this well and TPH-DRO was detected at 32 J mg/L in 2022.
20	Section 3.4.2, Visual Delineation of Impacted Soil at POL Area	lines 24-27, page 3-3	"To determine the lateral limit on the western margin, five boreholes were hand augured on September 4, 2014. The lateral limit of the affected area was flagged when no tar, odor, or staining was observed. After delineating the area with flags, the perimeter was recorded using the GPS unit."	Provide a figure that shows the boring locations in the revised Report. Explain why the western margin of the affected area was investigated differently from the northern, southern, and eastern margins of the contaminated area. The Permittee should have collected soil samples for the analyses of TPH-DRO-extended and lead at a minimum. Refer to Comment 19. A visual or olfactory investigation is not an appropriate for determining the nature and extent of contamination. Section 3.8, *SWMU 9 Conclusions and Recommendations* , states that a separate work plan will be prepared to discuss the proposed approach to further evaluate the extent of impacted soil in this area. In the Work Plan, propose step-out samples at five to ten feet intervals from the locations where contamination was identified to define the lateral extents of contamination. Propose deeper samples at the locations where contamination was identified to determine the vertical extent of contamination. Submit the Work Plan that proposes to evaluate the lateral and vertical extents of soil contamination.	Concur. Unfortunately, there is no map available with the (legacy) locations of the test pits or borings referenced in the comment. However, the area was delineated with flags and the perimeter was recorded using the GPS unit. As part of the Supplemental RFI Work Plan, the Army proposes to collect step-out samples from around this perimeter to evaluate both vertical and lateral extents of soil contamination associated with TPH-DRO-extended and lead as discussed in Section 3.3 and shown on Figure 3.3.
21	Section 3.6, Human Health Risk Evaluation	lines 30-34, page 3-4	"Screening levels are the NMED SSLs for the soil to groundwater pathway, published in March 2017, except for arsenic which is the site-specific background level of 5.6 mg/kg. When an NMED SSL is not published, the USEPA Soil RSL from November 2017 was used in the evaluation. When neither an NMED SSL nor USEPA RSL is published, a surrogate compound was selected and used in the evaluation."	The soil-to-groundwater SL for arsenic is based on the background concentration. The 2017 NMED SL for arsenic is 5.83 mg/kg based on a DAF of 20. This SL rather than background must be used to assess the soil-to-groundwater pathway for arsenic. Revise the Report and update applicable tables, accordingly. This comment also applies to the *Human Health Risk Evaluation* in Sections 4.6 and 5.6.	Concur. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The new RFI Report will include a new Risk Assessment that will follow the most recent guidance, as described in Section 7.0 and will use the appropriate soil-to-groundwater SL for arsenic.
22	Section 3.6.1, Data Used in the Evaluation & Identification of COPC's	lines 35-36, page 3-5	"August 2014 - Samples were collected from two areas associated with SWMU 9-POL Discharge Area as follows: [within the footprint of the POL Discharge Area and an area of stained soils located approximately 100 feet southeast of the POL Discharge Area]."	The area within the footprint of the POL Discharge Area was apparently unrelated to the disposal of waste oils. The majority of data points used for risk evaluation was collected from the unrelated area where contamination was not detected; therefore, the risk evaluation is not representative of the actual area where petroleum, oil, and lubricants were disposed. The risk must be reevaluated once the actual POL disposal area is fully characterized. The reporting direction is provided in the last paragraph of this letter.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written, and risk will be reevaluated as described in Section 7.0.

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23	Section 3.6.1, Data Used in the Evaluation & Identification of COPCs	lines 21-33, page 3-6	"Total chromium - Trivalent chromium was selected because hexavalent chromium is not known to be present at SWMU 9. The following lines of evidence support that hexavalent chromium is not expected to be present: - Hexavalent chromium is not stable in the environment in the presence of oxidizable organic matter and readily converts to trivalent chromium (ATSDR, 2012a). - Chromium is a component in stainless steel products, alloys, metal finishes, tanning products, and pigments, with hexavalent chromium used primarily in metal finishes and tanning products. The primary uses of chromium are in the metallurgical, refractory, and chemical industries, none of which occurred at FWDA (ATSDR, 2012a). It is possible that some metals products containing chromium were disposed at FWDA, but the lack of metal products in soil and the preference for hexavalent chromium to convert to trivalent chromium indicates the low likelihood that hexavalent chromium is present."	The lines of evidence (LOE) are not sufficient to make the determination that all chromium detected in total chromium analyses is chromium III. Until the Permittee provides analytical laboratory speciation data indicating that all of the total chromium exists as chromium III versus chromium VI, the screening levels for total chromium must be used for exceedance evaluation and risk assessment. This applies to all sections of the report where total chromium is discussed. Revise the Report to use the appropriate screening levels for total chromium in all screening level comparison tables and risk assessments.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written, and risk will be reevaluated as described in Section 7.0.
24	Section 3.6.6.2.4, Refinement 4- Lines of Evidence Discussion	lines 36-40, page 3-16	"Given that lead is found at levels largely consistent with background conditions, has a preference to sorb to soil under the alkaline conditions found at SWMU 9, and that regional weather conditions limit the amount of precipitation that could contribute to leaching, the likelihood that lead concentrations in soil at the SWMU 9 Boundary Exposure Area are contributing to degraded water quality is low."	The highest lead concentration was reported as 1,190 mg/kg, significantly higher than the background lead concentration of 12.4 mg/kg. The detected lead concentrations were not consistent with background conditions. Remove the inaccurate statement from the revised Report. In addition, the site's generic soil condition (alkaline condition) may not be representative of the soil conditions where petroleum, oils, lubricants, and solvents were disposed. The disposal practice may have altered the physical, chemical, and microbiological properties of soils; subsequently, the preference to sorb lead may have been altered. The sorption capacity of lead in the contaminated soils, rather than clean native soils, must be demonstrated if the line of evidence is pursued. The factors that affect the sorption capacity also appear to be more complex than soil pH alone. The Permittee must demonstrate that lead detected in soils at the actual POL site is not mobile and will not leach into groundwater or they must remove the LOE from the revised Repor If the Permittee elects to demonstrate the sorption capacity of lead in the contaminated soil, a detailed plan for the demonstration (e.g., bench-scale study) must be included in the Work Plan required by Comment 3.	Concur. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
25	Section 3.6.6.3, Vapor Intrusion Pathway Evaluation	lines 4-5 and 8-10, page 3-20	"The vapor intrusion pathway is considered potentially complete at SWMU 9 because volatile analytes were detected and are potentially toxic through inhalation." and, "Therefore, the qualitative discussion below presents the lines of evidence to support why the Army believes the vapor intrusion pathway does not require further evaluation at SWMU 9.".	VOCs were detected at SWMU 9. LOE were provided to address potential exposure via the vapor intrusion pathway. Most of the soils impacted by VOC are proposed for removal according to Section 3.8,*SWMU 9 Conclusions and Recommendations* . A re-evaluation of this pathway must be conducted using post-removal data. Modify the comment in the revised Report accordingly.	Concur. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Please see Figure 3.2 regarding the vapor intrusion pathway and how it will be addressed in the risk assessment.
26	Section 3.6.8, Uncertainty Discussion	lines 1-3, page 3-26	"All of the analytes listed above do not have uses relevant to historical operations at SWMU 9. The Army believes it was appropriate to eliminate these analytes as COPCs and proposes no further action relating to compounds discussed in this section."	The rational for elimination from the risk assessment is that all of the analytes listed do not have uses relevant to historical operations at the Facility. This is not accurate. For SWMU 9, waste operations included the dumping of waste oils and solvents. While it is acknowledged that some of the compounds may not be site related, many of the constituents listed are solvents or indicator compounds for total petroleum hydrocarbons. Since there is uncertainty regarding the presence of these constituents at levels above SLs but below levels of quantification, it is possible that they are present and could contribute to groundwater contamination. These compounds must be retained as COPCs and evaluated in the SL comparison. Revise the Report accordingly.	Concur. The RFI Supplemental Work Plan for Parcel 7 proposes a new Risk Assessment that will follow the most recent guidance and describes how the data will be used, please see Section 7.0 for Evaluation of Human Health and Ecological Risk approach.
27	Section 4.1.1, Location, Description, and Operational History	lines 24-25, page 4-1	"Based on the available historical information, the approximate use of this area can be traced back to sometime between 1935 and 1948 and it appears inactive by 1973."	Asbestos-containing materials (ACM) have been found at other sites where buildings were constructed during a similar time frame. An inspection for ACM must be conducted during the investigation in accordance with Permit Section VIII.A.1.e. If ACM is found, the soil must be analyzed for the presence of asbestos. Propose to submit a work plan to investigate the presence of ACM in SWMU 25, where applicable, in the revised Report.	Concur. ACM was found in Parcel 7, as documented in USACE's *Final Asbestos Survey Report Parcel 2, 6, 7, 13, 16, 19, 20, 22, & 23, Fort Wingate Depot Activity Gallup, New Mexico* , dated February 7, 2020. As discussed in Section 6.2 of the Supplemental RFI Work Plan for Parcel 7, if potential ACM is identified at the site, then up to 10 samples of different materials will be sent to the laboratory for confirmation as ACM. If the material is confirmed to be ACM, then the approximate extent of the debris will be documented and recommended for removal. Soil samples will be collected after removal of the debris to confirm the absence of asbestos in the soil.

Army Response to NMED Disapproval Letter (dated October 29, 2018) on the Final RFI Report, Parcel 7, Revision 1

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28	Section 4.4.1, Soil Characterization	lines 26-29, page 4-3	"Two proposed sample locations within Feature 5, 0725F5SB017 and 0725F5SB019, were relocated at the request of NMED to locations where dark areas were observed on historical aerial photographs. Correspondence documenting this agreement with NMED is included in Appendix A."	Appendix A does not include the NMED's specific request for relocating sample locations 0725FSSB017 and 0725F5SB019. Include the correspondence in the revised Report. Nevertheless, sample locations 0725F5SB017 and 0725F5SBOJ9 were not relocated to the dark stained area, according to Figure 4-4. Comment 5 in the January 3 I, 2014 *Approval with Modifications* directs the Permittee to conduct an investigation that is more inclusive of the total scarred earth. Only one soil sample (0725F5SS003) was collected from the dark stained area, according to Figure 4-4. Although the dark stained area is easily visible from the aerial images, the Permittee did not collect a sufficient number of samples from the dark stained area. Rather, the Permittee collected seven soil samples outside the boundary of Feature 5 at locations seemingly unrelated to soil contamination. The soil data collected outside the boundary of Feature 5 may cause an underestimation of risk. Submit the Work Plan required by Comment 3 to advance three soil borings within the footprint of the dark stained area. Collect two surface soil samples per boring location (total of six surface soil samples); the surface soil sampling method must be consistent with the 2014 investigation. (one for 0.0 to 0.5-foot and the other for 0.5 to 1.0 foot depth intervals). Each soil boring must be advanced to depths of ten feet bgs with samples collected at five and ten feet bgs; the subsurface soil sampling method must be appropriate for the target analytes. These soils samples must be analyzed for TAL metals, pesticides, herbicides, ORO, PCBs, SVOCs, VOCs, explosive compounds and dioxins/furans. Revise the Report accordingly.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.3. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
29	Section 4.4.2, Investigation Trenching	lines 6-7 and 10-11, page 4-4	"All trenches were excavated to a depth of approximately 5 feet bgs" and, "Photographs 4-1 through 4-6 document the trenching activity."	The depth of the trenches looks to be less than five feet from the photographs. Confirm the depths of the trenches in the revised Report. If field notes recording the activity are available, include them in the revised Report. A test pit investigation is more appropriate at the dark stained area and the vicinity of boring OTB03, where an elevated copper concentration was detected at five feet bgs. Propose the excavation of test pits at the location of dark stained area and at the vicinity of boring OTB03 in Feature 5 in the Work Plan required by Comment 3.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the vicinity of boring OTB03 in SWMU 25 as discussed in Section 4 and shown on Figure 4.7. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
30	Section 4.6.1, Data Used in the Evaluation & Identification of COPCs	lines 8-9, page 4-7	"[The surrogate analyte for the detected] Total chromium [is] Trivalent chromium(.) [Trivalent chromium] was selected because hexavalent chromium is not known to be present at SWMU 25."	Refer to Comment 8 in NMED's August 7, 2017 *Disapproval* . The comment states that unless speciated data are available and/or sufficient LOE are provided to support an assumption of 100%, trivalent chromium, the soil screening levels for total chromium should be applied in the risk assessments. Soil screening levels for total chromium and trivalent chromium are 96.6 and 117,000 mg/kg, respectively. The screening level for total chromium provides far more conservative value; therefore, is more protective of human health. Total chromium is not present in SWMU 25 at a level sufficient to drive the risk assessments at this time. However, the screening level for total chromium must be used for risk evaluation. Revise the Report accordingly.	Concur. The screening level for total chromium will be used in the risk assessment in the new RFI Report for Parcel 7.
31	Section 4.6.3.2, Beef Ingestion	lines 34-37, page 4-8	"'However, the physical characteristics of the water-bearing zones present at FWDA, and the limited volume encountered during historical groundwater monitoring and hydrogeological studies, suggest that insufficient groundwater is available to sustain human or animal use."	There is a production well (Well 69) in Parcel 11 installed in the San Andres-Glorieta aquifer. The same aquifer is likely present beneath Parcel 7. If future residents elect to install a production well and use the groundwater for grazing cattle, the beef ingestion pathway is potentially complete. Evaluate the pathway in the revised Report. This comment also applies to Section 5.6:3.2.	Concur. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
32	Section 4.6.4.1, Historical Risk Screening Results	lines 33-34, page 4-9	"One metal, copper, was detected at a concentration of 4,100 mg/kg, exceeding the SSL of 3,130 mg/kg,"	The exceedance was detected from the soil sample collected from boring OTB03 at a depth of five feet bgs. The copper concentrations in the soil samples collected from the same boring OBT03 at the depths of one and ten feet bgs were recorded as 10 and 6.02 mg/kg, respectively, according to Table 4-1, *Summary of Detectable Concentrations for Previous Soil Sample Analyses at SWMU 25* . The exceedance appears to be limited to an approximate depth of five feet bgs at the location. The most elevated. copper concentration among the shallow soil samples (0-1-foot bgs) collected from the vicinity of boring OBT03 was recorded as 20.4 mg/kg (0725F5SS0 16-0.5-1.0DSO-DUP) according to table 4-2A. The shallow soils in the vicinity of OBT03 appear to be unaffected. Waste/debris containing copper may have been buried beneath the ground surface. Propose the excavation of test pits in the vicinity of OBT03 in the Work Plan required by Comment 3. In addition, three soil borings must be advanced to ten feet bgs in the vicinity of OBT03 to determine the extent of elevated copper concentrations. The Permittee must also propose the installation of three soil borings in the vicinity of OBT03 to collect soil samples at depths of one, five and ten feet bgs in the Work Plan required by Comment 3. The soil samples (total of nine samples) must be analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs, VOCs, explosive compounds and dioxins/furans.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the vicinity of boring OTB03 in SWMU 25 as discussed in Section 4 and shown on Figure 4.7. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
33	Section 4.6.6.2.1, Refinement 1-Refined Exposure Concentration	lines 26-31, page 4-13	"The single elevated arsenic concentration is believed to be representative of background levels at SWMU 25 because there is no known source of arsenic in this area of Parcel 7. Arsenic is used in a wide range of applications, including wood preservatives, agricultural chemicals, as an alloying element in ammunition and soldiers, as anti-friction additive in bearings, semi-conductors for telecommunications, and medicinal uses (ATSDR, 2007a.)."	Section 4.1, I, *Location, Description, and Operational History* , does not provide enough information to conclude that the elevated arsenic concentration is representative of background levels at SWMU*25* . Although arsenic was not used in a manner described at the site, wood pieces treated with arsenic or metal containers containing arsenic residues may have been burned at the site. Propose to collect step-out samples five to ten feet in all directions at a depth that correlates to the contaminant detections in the Work Plan. Also, propose to collect a deeper sample at the same location at sample 0725F2SS009- in the Work Plan.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the vicinity of sample 0725F2SS009 in SWMU 25 as discussed in Section 4. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.

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34	Section 4.6.6.2.1, Refinement 1-Refined Exposure Concentration	lines 1-9, page 4-14	"The single elevated detection of copper could have resulted from disposal of materials containing copper at SWMU 25 since copper is used in a wide range of products, such as electrical, plumbing, automotive, telecommunications, air condition, industrial valves and fittings, agricultural fungicides and algicides, wood preservatives, electroplating, dye manufacture, and petroleum refining (ATSDR, 2004b). However, the production of products using copper did not occur at SWMU 25. The lack of widespread copper detections at levels above its screening level or significantly greater than the high end of copper's background range indicates there *is* no unacceptable noncancer hazard from exposure to copper at SWMU 25."	Further investigation is warranted in the vicinity of boring OBT03 and the dark stained area. The risk assessment is not conclusive until further investigation is complete. Remove or revise the statement in the revised Report, as necessary.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the vicinity of boring OTB03 and the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.3. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
35	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	line 37, page 4-17, lines 1-2, page 4-18, lines 3-5, 11-13, page 4-19	"These estimated cancer risks were based on use of the maximum detected [pesticide] concentration as a result of the low frequency of detection (less than 2%) in the SWMU 25 data set of more than 200 samples." and, "However, this COPC [2-hexanone] was detected only once in more than 200 samples." and, "However, neither analyte [bromodichloromethane or dichlorobromomethane] was detected more than twice in more than 200 samples, demonstrating that these COPCs are infrequently detected at SWMU 251 and these detections are not representative of concentrations across SWMU 25."and, "However, the estimated noncancer hazard was based on use of the maximum detected [antimony] concentration as a result of the low frequency of detection (less than 2%) in the SWMU 25 data set of more than 200 samples."	While the detection of these constituents is rare, it should be noted that only one soil sampling location (0725FSSS003) was included in the dark stained area. The probability of detections may be underestimated due to numerous data points collected outside of the potential hotspot. An investigation of soils within the dark stained area is required. The LOE are not acceptable because the investigation was not conducted appropriately at SWMU 25. Remove or revise the statements in the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.3. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
36	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 25-29, page 4-18	"Review of laboratory reports indicates that methylene chloride was detected in equipment blanks, trip blanks, or lab blanks, which provides evidence that it is introduced. The lack of variability in concentration[s] across SWMU 25 provides further evidence that this COPC is introduced via lab contamination and not as the result of a spill or release."	The Permittee must direct the analytical laboratory to take measures to minimize contamination associated with methylene chloride in all future investigations. In addition, provide a table that shows all detected methylene chloride concentrations in soil samples and blanks. Include the table to validate the LOE in the revised Report.	Concur. A new analytical laboratory has been selected and measures will be implemented to ensure methylene chloride contamination is minimized. A table providing detected methylene chloride concentrations will be included the new RFI Report.
37	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 25-29, page 4-20	"Given that lead has a preference to sorb to soil, that soil pH conditions are alkaline at SWMU 25, and that regional weather conditions limit the amount of precipitation that could contribute to leaching, the likelihood that lead concentrations in soil at SWMU 25 are contributing to degraded water quality is low."	The Permittee provided similar discussion regarding the elevated lead contamination in SWMU 9 (see Comment 24). If the Permittee elects to demonstrate the sorption capacity of lead in the contaminated soil, a detailed plan for the demonstration (e.g., bench-scale study) must be included in the Work Plan required by Comment 3.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
38	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 37-38, page 4-20	"Contamination is Surficial - Past activity at SWMU 25 was limited to surface disposal of solvents.''	The copper concentration in the soil sample collected from boring OTB03 at a depth of five feet bgs exceeded the screening level. Therefore, the statement is not accurate; contamination is not limited to surficial soils. Also, the vertical extent of contamination was not investigated in the dark stained area. Remove the statement in the revised Report. Also, provide information regarding the solvents that were disposed at the site (e.g., chemical names and, if known, volumes) in the revised Report. Explain the nature of the disposal activity and whether containerized or liquid solvents were burned or directly drained on the ground surface at the site.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Further investigation of the dark stained area and boring OTB03 at SWMU 25 is detailed in Section 4 of the Supplemental RFI Work Plan for Parcel 7. Proposed test pit/soil sample locations are shown on Figure 4.3.

NMED Comment #	Section/Topic	Line #/Page #	Permittee Statement	NMED Comment	Permittee Response
39	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 1-2, page 4-21	'Lack of Liquid Source - The presence of a liquid source, natural or man-made, is required to mobilize analytes."	The statement is not accurate. Rainwater and snowmelt are present at the site and may infiltrate the soils and mobilize the analytes to the aquifers. Refer to Comment 42 below. Remove the statement from the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site.
40	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 8-11, page 4-21	"Benzene was detected in only seven out of 201 samples (3%). This does not constitute an infinite source of benzene and demonstrates that benzene is not migrating vertically over a large portion of SWMU 25."	The dark stained area was not investigated for benzene contamination. Since benzene contamination has not been fully investigated, the possibility of benzene migrating vertically is uncertain. This comment also applies to the discussions regarding dieldrin, heptachlor epoxide, naphthalene, antimony, and lead in Section 4.6.6.2.4. Remove the statements from the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.3. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.
41	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 14-19, page 4-22	"The PAHs made of four or fewer aromatic rings (like naphthalene) may be degraded through microbial metabolism, photolysis, and oxidation (ATSDR, 1995b). Studies suggest that the half-lives of PAHs in soil with three or fewer rings (like naphthalene) are generally less than 20 days, and the results for two ring PAHs (naphthalene is a two-ring PAH) indicate a half-life in soil of approximately 2 days.''	The burning activities ceased by 1973, while PAHs were still detected in 2014. The PAH concentrations in *soil* sample 0725F5SS003 collected from the dark stained area indicate that the initial estimated *P* AH concentrations at a time when disposal/burning activity occurred would significantly exceed the soil-to-groundwater screening levels based on their half-lives. Due to the severity of initial contamination associated with PAHs, the groundwater quality at SWMU 25 may have already been degraded. Propose to install a groundwater monitoring well to evaluate groundwater quality in the vicinity of the dark stained area in the Work Plan required by Comment 3. Propose to collect groundwater samples from the well in the Work Plan.	Concur. Additional soil sampling is proposed in this Supplemental RFI Work Plan for Parcel 7 (Section 4, Figure 4.3). Soil sampling results may support further groundwater investigation. The Army proposes to address potential groundwater impacts through the Northern Area Groundwater Phase 2 Supplemental RFI Work Plan, submitted to NMED in March 2024 under separate cover.
42	Section 4.6.6.2.4, Refinement 4-Qualitative Lines of Evidence Discussion	lines 22-27, page 4-22	"Prevailing Weather Patterns -FWDA receives less than 12 inches of precipitation annually (www.usclimatedata.com/climate/gaUup/new-mexico/united-states, accessed December 4, 2017). The high evaporation rates typical in a desert setting, coupled with low annual average precipitation and a depth to groundwater of approximately 50 to 70 feet bgs, indicate that it is extremely likely for analytes to be able to migrate vertically from surface soils to the water table at FWDA."	The Permittee failed to include that the average annual snowfall is shown as 35 inches according to the website in the statement. Snow eventually melts and infiltrates the soil matrix. Revise the statement to include this fact. In addition, although total annual rainfall is low, rainfall often comes intensely in a short period of time in New Mexico (e.g., monsoon season). As a result, water on the surface may not evaporate immediately and the runoff may pool or follow the least resistant pathways and infiltrate into the subsurface. The intense rainfall may accelerate migration of contaminants from soils to groundwater. Contaminants have migrated from surface/shallow soils to the water table at various sites within FWDA. Reevaluate the risk and correct the statement in the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
43	Section 4.6.6.3, Vapor Intrusion Pathway Evaluation	lines 23-25, page 4-24	"Review of laboratory reports indicates that acetone, bromodichloromethane, dibromochloromethane, and methylene chloride were detected in equipment blanks, trip blanks, or lab blanks which provides evidence that these analytes are introduced [from laboratory]."	The Permittee must direct the analytical laboratory to take measures to minimize contamination in all future investigations. In addition, provide a table that lists all detected VOC concentrations in soil samples and blanks. Include the table to support the LOE in the revised Report. Combine the information with the content of the table required by Comment 36.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
44	Section 4.6.6.3, Vapor Intrusion Pathway Evaluation	lines 32-34, page 4-24	"SWMU 25 - Feature 2. The volatile analytes detected include two PAHs (benzo(a)anthracene and naphthalene) and one VOC (acetone) that meet the NMED criteria for volatility and toxicity through inhalation."	The Permittee provides a discussion for acetone detection in the following paragraph in the Report; however, a discussion of the detected PAHs was not provided. Regardless, propose to reevaluate the vapor intrusion pathway once the investigation of the dark stained area is complete in the Phase 2 Investigation Work Plan and revise the risk evaluation in the following report.	Concur. The Army has prepared a new Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and new RFI Report will be new deliverables that are completely re-written. The nature and extent of contamination will be re-assessed based on the new defined limits of the site and all samples associated with the new location in historical and proposed RFI samples.
45	Section 4.6.7, Risk Evaluation Summary	lines 8-10, page 4-26	"Of these four [aluminum, barium, beryllium, and mercury], the 95% UCLs for each were less than the construction worker screening level, resulting in noncancer hazard contribution at levels less than the NMED target risk threshold of 1.0."	As previously stated, only one sampling location (0725F5SS003) was included in the dark stained area. The highest level of contamination is potentially located in the dark stained area. The risks must be reevaluated after the Supplemental investigation is complete.	Concur. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities in the dark stained area in SWMU 25 as discussed in Section 4 and shown on Figure 4.3. Risks will be reevaluated as discussed in Section 7.0 of the Work Plan.

Army Response to NMED Disapproval Letter (dated October 29, 2018) on the Final RFI Report, Parcel 7, Revision 1

NMED Comment #	Section/Topic	Line #/Page #	Permittee Statement	NMED Comment	Permittee Response
46	Section 4.7.1, Data Used in the Evaluation & Identification of COPCs	lines 28-30, page 4-36	"Samples collected in August 2014 were analyzed for TAL metals, pesticides, herbicides, DRO, PCBs, SVOCs (including PAHs), VOCs, and selected explosives. Selected samples were also analyzed for dioxins/furans,"	Table 4-2A and Table 4-28 do not identify which soil samples were analyzed for dioxins/furans as the tables only list detected constituents. Identify the samples that were analyzed for dioxins/furans in the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Samples analyzed for dioxins/furans will be identified in the new RFI Report.
47	Section 4.6.8, Uncertainty Discussion	lines 25-26, page 4-29 and lines 19-20, page 30	"Fifty of the 77 analytes were eliminated as COPCs based on the lines of reasoning presented below," and, "The remaining 25 analytes are comprised of three explosives, 12 SVOCs, and 10 VOCs having LOQs and LODs greater than the groundwater protection SSL."	Uncertainty discussion was provided for 75 analytes whose LOQs are greater than the screening levels. No discussion is provided for the remaining two analytes. Clarify the discrepancy or provide uncertainty discussion for the remaining two analytes in the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Uncertainty discussion for all analytes will be included in the new RFI Report.
48	Section 4.6.8, Uncertainty Discussion	lines 26-29, page 4-32	"All of the analytes listed above do not have uses relevant to historical operations at FWDA or are not known to have been used at FWDA. It is appropriate to eliminate them as COPCs. The Army believes it was appropriate to eliminate these analytes as COPCs. The Army proposes no further action relating to compounds discussed in this section."	The rational for elimination from the risk assessment states that all of the analytes listed do not have uses relevant to historical operations at FWDA. However, at SWMU 25, waste operations included the burning of trash. No other description has been provided to justify what was considered trash. Based on historical operations from military installations, burning operations often included an array of items. While it is acknowledged that some of the compounds addressed in Section 4.6.2 may not be site related, some of the constituents listed are common by-products of burning (PAHs) and are indicator compounds for petroleum hydrocarbons or are related to explosives (hexachlorobenzene). While the operations consisted of burning, there is no discussion on whether liquids were burned and/or used as accelerants (e.g., hydrocarbon-based fuels). As there is uncertainty as to presence of these constituents at levels above SSLs but below levels of detection, it is possible that they are present and could contribute to groundwater contamination. The uncertainty analysis must include a discussion of the physical-chemical properties as another LOE to support the elimination of these compounds as COPCs. As noted in Comment 5, risk and/or hazard is not to be calculated for the soil-to-groundwater screening pathway. Therefore, retaining these compounds as COPCs for the soil-to-groundwater SL evaluation does not impact risk but rather provides evaluation of the potential for these compounds to impact groundwater. Revise the Report accordingly.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The new RFI Report will evaluate the potential for compounds to impact groundwater as described in the comment.
49	Section 5.6.8, Uncertainty Discussion	lines 9-12, page 5-26	"While no individual congener was detected at a concentration greater than a screening level, the highest calculated dioxin/furan (toxic equivalent) TEQ did exceed the 2,3,7,8-TCDD screening level. The dioxin/furan TEQ was further evaluated in the risk evaluation and found not to contribute to unacceptable cancer risks."	It is not clear how the exceedance of dioxin/furan TEQ does not contribute to unacceptable cancer risks. Explain how the conclusion was drawn in the revised Report. In addition, the exceedance was detected at sampling location 0743RCYSS010 according to Figure 5-3 *Railroad Classification Yard-Exceedance Area Map* . The extent of contamination is not delineated at sample location 0743RCYSS010. Propose to collect step-out and deeper soil samples to assess the lateral and vertical extent of dioxin/furan TEQ contamination along the railroad tracks in the Work Plan required by Comment 3.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The Supplemental RFI Work Plan for Parcel 7 proposes additional characterization activities to assess the lateral and vertical extent of dioxin/furan contamination along the railroad tracks as discussed in Section 5 and shown on Figure 5.4.
50	Section 5.8, Conclusions and Recommendations	lines 38-40, page 5-35	"The Navajo Nation and the Pueblo of Zuni have expressed an interest in continuing the use of the railyard for its intended purpose and for this reason, the Army recommends no further action.''	NMED has not received a confirmation for continuing use of the railyard from the Navajo Nation or the Pueblo of Zuni or of acceptance of properties where cleanup is incomplete. Therefore, the Army's basis for recommending no further action at the site is premature. Revise the statement as necessary.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The Army will continue consultation with the Navajo Nation and the Zuni Tribe regarding the continued use of the railyard and will communicate the results of that consultation with NMED. The results of the consultation will also be used to inform the recommendations in the new RCRA Facility Investigation Report.
51	Table 3-2A. SWMU 9-POL Waste Discharge Area Sample Result Detections (August 2014)- Direct Contact Screening SWMU 25- Trash Burning Ground Property Disposal Office Sample Result Detections (August 2014)- Direct Contact Screening	page 3-T9 and Table 4-2A page 4-T13, etc.	N/A	Tables 3-2A, 4-2A, and others list detections for all analytes. This is a departure from the standard practice of presenting data in tables based on the analytical group (e.g., a table for VOCs, a table for SVOCs, a table for metals, etc.). Presenting data for all analytes in one table increases review time for a document based on the difficulty of finding a specific analyte for a specific sample in a single 135-page table (Table 4-2A). Revise the Report to present data in tables specific to analyte groups as has been performed in the past. This applies to all tables where data is presented in this and all future documents.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. The new RFI Report will present data in tables specific to analyte groups as described in the NMED comment.

Army Response to NMED Disapproval Letter (dated October 29, 2018) on the Final RFI Report, Parcel 7, Revision 1

NMED Comment #	Section/Topic	Line #/Page #	Permittee Statement	NMED Comment	Permittee Response
52	Table 3-3A, SWMU 9 - POL Discharge Area - Quantitation Limits Compared to Human Health Soil Screening Levels - Direct Contact SWMU 9 - POL Discharge Arca - Quantitation Limits Compared to Human Health Soil Screening Levels - Groundwater Protection	p 3-T25 and Table 3-3B p 3-T29, etc.	N/A	According to Tables 3-3A and 3-3B, there were 14 analytes with quantitation Limits that exceeded the residential soil screening levels and 67 analytes with quantitation limits that exceeded the NMED soil-to-groundwater soil screening level. Quantitation limits that exceed screening levels make it impossible for the Permittee to demonstrate, or for NMED to defend, that contamination is not present at unacceptable concentrations at the facility. The Permittee must make a demonstrated effort to identify analytical laboratories that can achieve appropriate quantitation limits below the screening levels.	Concur. A new analytical laboratory has been selected to help minimize analytes with quantitation limits that exceed screening levels. A comparison of the NMED SSLs (or EPA RSLs) and NMED ESLs to laboratory quantitation limits is provided in the Supplemental RFI Work Plan for Parcel 7 Table 6.6.
53	Figure 3-2, SWMU 9 - POL Waste Discharge Area - Previous Sample Locations	p 3-F2	N/A	The location of well FW26 appears to have moved. Figures provided in the 2013*Final RCRA Facility Investigation Work Plan and Historical Information Summary Document Parcel 7* (2013 Work Plan) indicate that well FW26 is located approximately 30- feet outside of the SWMU 9 boundary. Figures provided in the Report indicate that well FW26 is located inside the SWMU 9 boundary. No discussion was provided regarding well FW26. Resolve the discrepancy and provide a discussion of why the well location was moved on maps (if the current Report maps are correct) in the revised Report.	Concur. The location of well FW26 shown on Figure 3.1 of the Supplemental RFI Work Plan is based on the most recent survey data which shows the well inside the SWMU 9 boundary. Well FW26 will be resurveyed during the Supplemental RFI field activities to confirm the location is accurate. Results of the resurvey will be presented in the new RFI Report.
54	Appendix B- Data Validation reports	page B-1	N/A	The Permittee has provided Appendix. B, Data Validation Reports. However, multiple data validation reports are included in other appendices such as Appendices F and N. Include data validation reports in the Data Validation Reports appendix in the revised Report.	Concur. The Army has prepared a Supplemental RFI Work Plan to collect additional data required to complete the RFI process for Parcel 7. The Supplemental RFI Work Plan and subsequent report will be new deliverables that are completely re-written. Data Validation reports will be consolidated into a single Appendix in the new RFI Report, as appropriate.

DEPARTMENT OF THE ARMY
OFFICE OF THE DEPUTY CHIEF OF STAFF, G-9
600 ARMY PENTAGON
WASHINGTON, DC 20310-0600

March 28, 2025

Army Environmental Division - BRAC Operations Branch

Mr. JohnDavid Nance
Chief, Hazardous Waste Bureau New
Mexico Environment Department 2905
Rodeo Park Drive East, Building 1 Santa
Fe, New Mexico 87505-6303

RE: Withdrawal Request for the Final RCRA Facility Investigation Report Parcel 7, Revision 1 and Parcel 7 Phase 2 RCRA Facility Investigation Work Plan, Fort Wingate Depot Activity, McKinley County, New Mexico. EPA# NM6213820974

Dear Mr. Nance:

The Army respectfully requests to withdraw the above-mentioned work plan and report submitted to the New Mexico Environment Department (NMED) for review and approval. The Final RCRA Facility Investigation (RFI) Report Parcel 7 Revision 1 received a Notice of Disapproval dated October 29, 2018, and the Parcel 7 Phase 2 RCRA Facility Investigation Work Plan was submitted on March 15, 2024.

The Supplemental RFI Work Plan, Parcel 7, will be submitted to NMED in the near future under a separate cover letter.

This is an official request to withdraw from further NMED review the document titled Final RFI Report Parcel 7, Revision 1 and the Parcel 7 Phase 2 RFI Work Plan. Please confirm your decision regarding this matter.

If you have any questions or require further information, please contact me at Cheryl.a.frischkorn.civ@army.mil, at 703-624-6429 (Mobile) or George.h.cushman.civ@army.mil, 571-256-1330 (Pentagon Office, preferred), 703-608-2245 (Mobile).

Sincerely,

Cheryl Frischkorn

Cheryl Frischkorn
BRAC Environmental Coordinator
Fort Wingate Depot Activity
BRAC Operations Branch
Environmental Division

Enclosures

CF:

Neelam Dhawan, NMED, HWB
Michiya Suzuki, NMED, HWB
Laurie King, U.S. EPA Region 6
Ian Thomas, BRAC Ops
George Cushman, BRAC Ops
Alan Soicher, USACE
Ben Moayyad, USACE
Laberta Farrell, SW BIA
George Padilla, BIA, NRO
Darren Sanchez, The Zuni Tribe
Sharlene Begay-Platero, Navajo Nation
Admin Record, NM / Ohio

Certified Mail - Return Receipt Requested

April 10, 2025

George H. Cushman
Headquarters, Department of the Army
Office of the DCS, G-9
Army Environmental Office, Room 5C140
600 Army Pentagon
Washington, DC 20310-0600

RE: APPROVAL
WITHDRAWAL REQUEST FOR THE FINAL RCRA FACILITY INVESTIGATION REPORT PARCEL 7, REVISION 1 AND PARCEL 7 PHASE 2 RCRA FACILITY INVESTIGATION WORK PLAN
FORT WINGATE DEPOT ACTIVITY
MCKINLEY COUNTY, NEW MEXICO
EPA ID# NM6213820974
HWB-FWDA-17-003

Dear Mr. Cushman:

The New Mexico Environment Department (NMED) is in receipt of the Fort Wingate Depot Activity (Permittee) *Withdrawal Request for the Final RCRA Facility Investigation Report Parcel 7, Revision 1 and Parcel 7 Phase 2 RCRA Facility Investigation Work Plan* (Request), dated March 28, 2025.

The Request states, "[t]he Army respectfully requests to withdraw the above-mentioned work plan and report submitted to the New Mexico Environment Department (NMED) for review and approval. The Final RCRA Facility Investigation (RFI) Report Parcel 7 Revision 1 received a Notice of Disapproval dated October 29, 2018, and the Parcel 7 Phase 2 RCRA Facility Investigation Work Plan was submitted on March 15, 2024. The Supplemental RFI Work Plan, Parcel 7, will be submitted to NMED in the near future under a separate cover letter."

The Request adheres to the decision made and agreed between the Permittee and NMED during the October 24, 2024 meeting regarding the future course of actions for Parcels 6, 7, 13, and 22; therefore, NMED hereby issues this Approval.

As suggested by the September 5, 2024 email correspondence from Mr. Suzuki of NMED to Ms. Frischkorn of BRAC, the Supplemental RFI Work Plan, Parcel 7, (Supplemental Work Plan) must address the deficiencies and specific directions documented in the October 29, 2018

Disapproval, where applicable.

In addition, NMED notes that the Permittee should have included a submission due date for the Supplemental Work Plan. The Supplemental Work Plan must be submitted to NMED no later than **April 3, 2026**. Ample time is provided to prepare the Supplemental Work Plan to adequately address all applicable comments contained in the October 29, 2018 Disapproval.

This approval is based on the information presented in the document as it relates to the objectives of the work identified by NMED at the time of review. Approval of this document does not constitute agreement with all information or every statement presented in the document.

Should you have any questions, please contact Michiya Suzuki of my staff at (505) 690-6930.

Sincerely,

JohnDavid Nance Digitally signed by JohnDavid Nance
Date: 2025.04.10 15:30:11 -06'00'

JohnDavid Nance
Chief
Hazardous Waste Bureau

cc: N. Dhawan, NMED HWB
M. Suzuki, NMED HWB
L. King, EPA Region 6 (6LCRRC)
S. Begay-Platero, Navajo Nation
A. Kucate, Pueblo of Zuni
M. Bowekaty, Pueblo of Zuni
D. Hickman, Southwest Region BIA
G. Padilla, Navajo BIA
M. Wischnewski, BIA
R. White, BIA
C. Esler, Sundance Consulting, Inc.
C. Frischkorn, BRAC
A. Soicher, USACE

File: FWDA 2025 and Reading

APPENDIX B
Historical and 2014 RFI Data

(Provided in electronic format only due to length [319 pages]. Hard copy provided upon request.)

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Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP001-1	11/23/1992	1.0	JS12	Aluminum	18,100	7429-90-5	NMED SSL	41,400	No
FP001-1	11/23/1992	1.0	JS12	Barium	239	7440-39-3	NMED SSL	4,390	No
FP001-1	11/23/1992	1.0	JS12	Beryllium	0.944	7440-41-7	NMED SSL	148	No
FP001-1	11/23/1992	1.0	JS12	Calcium	20,200	7440-70-2	NMED SSL	8,850,000	No
FP001-1	11/23/1992	1.0	JS12	Chromium	13.5	7440-47-3	NMED SSL	96.6	No
FP001-1	11/23/1992	1.0	JS12	Cobalt	6.31	7440-48-4	NMED SSL	23.4	No
FP001-1	11/23/1992	1.0	JS12	Copper	9.23	7440-50-8	NMED SSL	3,130	No
FP001-1	11/23/1992	1.0	JS12	Iron	19,100	7439-89-6	NMED SSL	54,800	No
FP001-1	11/23/1992	1.0	JD21	Lead	14.3	7439-92-1	EPA RSL	200	No
FP001-1	11/23/1992	1.0	JS12	Magnesium	6,420	7439-95-4	NMED SSL	1,550,000	No
FP001-1	11/23/1992	1.0	JS12	Manganese	458	7439-96-5	NMED SSL	464	No
FP001-1	11/23/1992	1.0	JS12	Nickel	11.2	7440-02-0	NMED SSL	753	No
FP001-1	11/23/1992	1.0	JS12	Potassium	4,760	7440-09-7	NMED SSL	15,600,000	No
FP001-1	11/23/1992	1.0	JS12	Sodium	130	7440-23-5	NMED SSL	7,820,000	No
FP001-1	11/23/1992	1.0	JS12	Vanadium	21.9	7440-62-2	NMED SSL	614	No
FP001-1	11/23/1992	1.0	JS12	Zinc	40.2	7440-66-6	NMED SSL	106,000	No
FP001-5	11/23/1992	5.0	JS12	Aluminum	12,000	7429-90-5	NMED SSL	41,400	No
FP001-5	11/23/1992	5.0	JS12	Barium	263	7440-39-3	NMED SSL	4,390	No
FP001-5	11/23/1992	5.0	JS12	Beryllium	0.618	7440-41-7	NMED SSL	148	No
FP001-5	11/23/1992	5.0	JS12	Calcium	20,600	7440-70-2	NMED SSL	8,850,000	No
FP001-5	11/23/1992	5.0	JS12	Chromium	8.30	7440-47-3	NMED SSL	96.6	No
FP001-5	11/23/1992	5.0	JS12	Cobalt	4.25	7440-48-4	NMED SSL	23.4	No
FP001-5	11/23/1992	5.0	JS12	Copper	4.44	7440-50-8	NMED SSL	3,130	No
FP001-5	11/23/1992	5.0	JS12	Iron	13,100	7439-89-6	NMED SSL	54,800	No
FP001-5	11/23/1992	5.0	JD21	Lead	9.27	7439-92-1	EPA RSL	200	No
FP001-5	11/23/1992	5.0	JS12	Magnesium	4,730	7439-95-4	NMED SSL	1,550,000	No
FP001-5	11/23/1992	5.0	JS12	Manganese	284	7439-96-5	NMED SSL	464	No
FP001-5	11/23/1992	5.0	JS12	Nickel	8.23	7440-02-0	NMED SSL	753	No
FP001-5	11/23/1992	5.0	JS12	Potassium	1,630	7440-09-7	NMED SSL	15,600,000	No
FP001-5	11/23/1992	5.0	JS12	Sodium	566	7440-23-5	NMED SSL	7,820,000	No
FP001-5	11/23/1992	5.0	JS12	Vanadium	16.1	7440-62-2	NMED SSL	614	No
FP001-5	11/23/1992	5.0	JS12	Zinc	22.9	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP001-10	11/23/1992	10.0	JS12	Aluminum	11,400	7429-90-5	NMED SSL	41,400	No
FP001-10	11/23/1992	10.0	JS12	Barium	230	7440-39-3	NMED SSL	4,390	No
FP001-10	11/23/1992	10.0	JS12	Beryllium	0.599	7440-41-7	NMED SSL	148	No
FP001-10	11/23/1992	10.0	JS12	Calcium	19,900	7440-70-2	NMED SSL	8,850,000	No
FP001-10	11/23/1992	10.0	JS12	Chromium	7.80	7440-47-3	NMED SSL	96.6	No
FP001-10	11/23/1992	10.0	JS12	Cobalt	4.49	7440-48-4	NMED SSL	23.4	No
FP001-10	11/23/1992	10.0	JS12	Copper	9.23	7440-50-8	NMED SSL	3,130	No
FP001-10	11/23/1992	10.0	JS12	Iron	12,600	7439-89-6	NMED SSL	54,800	No
FP001-10	11/23/1992	10.0	JD21	Lead	8.57	7439-92-1	EPA RSL	200	No
FP001-10	11/23/1992	10.0	JS12	Magnesium	4,310	7439-95-4	NMED SSL	1,550,000	No
FP001-10	11/23/1992	10.0	JS12	Manganese	294	7439-96-5	NMED SSL	464	No
FP001-10	11/23/1992	10.0	JS12	Nickel	6.23	7440-02-0	NMED SSL	753	No
FP001-10	11/23/1992	10.0	JS12	Potassium	1,650	7440-09-7	NMED SSL	15,600,000	No
FP001-10	11/23/1992	10.0	JS12	Sodium	741	7440-23-5	NMED SSL	7,820,000	No
FP001-10	11/23/1992	10.0	JS12	Vanadium	14.1	7440-62-2	NMED SSL	614	No
FP001-10	11/23/1992	10.0	JS12	Zinc	22.2	7440-66-6	NMED SSL	106,000	No
FP002-1	11/23/1992	1.0	JS12	Aluminum	20,600	7429-90-5	NMED SSL	41,400	No
FP002-1	11/23/1992	1.0	JS12	Barium	208	7440-39-3	NMED SSL	4,390	No
FP002-1	11/23/1992	1.0	JS12	Beryllium	0.874	7440-41-7	NMED SSL	148	No
FP002-1	11/23/1992	1.0	JS12	Calcium	18,400	7440-70-2	NMED SSL	8,850,000	No
FP002-1	11/23/1992	1.0	JS12	Chromium	12.9	7440-47-3	NMED SSL	96.6	No
FP002-1	11/23/1992	1.0	JS12	Cobalt	6.93	7440-48-4	NMED SSL	23.4	No
FP002-1	11/23/1992	1.0	JS12	Copper	10	7440-50-8	NMED SSL	3,130	No
FP002-1	11/23/1992	1.0	JS12	Iron	20,000	7439-89-6	NMED SSL	54,800	No
FP002-1	11/23/1992	1.0	JD21	Lead	14.3	7439-92-1	EPA RSL	200	No
FP002-1	11/23/1992	1.0	JS12	Magnesium	6,790	7439-95-4	NMED SSL	1,550,000	No
FP002-1	11/23/1992	1.0	JS12	Manganese	411	7439-96-5	NMED SSL	464	No
FP002-1	11/23/1992	1.0	JS12	Nickel	11.7	7440-02-0	NMED SSL	753	No
FP002-1	11/23/1992	1.0	JS12	Potassium	5,800	7440-09-7	NMED SSL	15,600,000	No
FP002-1	11/23/1992	1.0	JS12	Sodium	94.1	7440-23-5	NMED SSL	7,820,000	No
FP002-1	11/23/1992	1.0	JS12	Vanadium	25.7	7440-62-2	NMED SSL	614	No
FP002-1	11/23/1992	1.0	JS12	Zinc	42.9	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP002-5	11/23/1992	5.0	JS12	Aluminum	9,010	7429-90-5	NMED SSL	41,400	No
FP002-5	11/23/1992	5.0	JS12	Barium	303	7440-39-3	NMED SSL	4,390	No
FP002-5	11/23/1992	5.0	JS12	Calcium	22,300	7440-70-2	NMED SSL	8,850,000	No
FP002-5	11/23/1992	5.0	JS12	Chromium	5.68	7440-47-3	NMED SSL	96.6	No
FP002-5	11/23/1992	5.0	JS12	Cobalt	2.84	7440-48-4	NMED SSL	23.4	No
FP002-5	11/23/1992	5.0	JS12	Iron	9,930	7439-89-6	NMED SSL	54,800	No
FP002-5	11/23/1992	5.0	JD21	Lead	5.56	7439-92-1	EPA RSL	200	No
FP002-5	11/23/1992	5.0	JS12	Magnesium	3,640	7439-95-4	NMED SSL	1,550,000	No
FP002-5	11/23/1992	5.0	JS12	Manganese	323	7439-96-5	NMED SSL	464	No
FP002-5	11/23/1992	5.0	JS12	Nickel	4.19	7440-02-0	NMED SSL	753	No
FP002-5	11/23/1992	5.0	JS12	Potassium	1,280	7440-09-7	NMED SSL	15,600,000	No
FP002-5	11/23/1992	5.0	JS12	Sodium	193	7440-23-5	NMED SSL	7,820,000	No
FP002-5	11/23/1992	5.0	JS12	Vanadium	11.7	7440-62-2	NMED SSL	614	No
FP002-5	11/23/1992	5.0	JS12	Zinc	15.2	7440-66-6	NMED SSL	106,000	No
FP002-10	11/23/1992	10.0	JS12	Aluminum	9,850	7429-90-5	NMED SSL	41,400	No
FP002-10	11/23/1992	10.0	JS12	Barium	275	7440-39-3	NMED SSL	4,390	No
FP002-10	11/23/1992	10.0	JS12	Calcium	14,200	7440-70-2	NMED SSL	8,850,000	No
FP002-10	11/23/1992	10.0	JS12	Chromium	6.05	7440-47-3	NMED SSL	96.6	No
FP002-10	11/23/1992	10.0	JS12	Cobalt	3.02	7440-48-4	NMED SSL	23.4	No
FP002-10	11/23/1992	10.0	JS12	Iron	10,300	7439-89-6	NMED SSL	54,800	No
FP002-10	11/23/1992	10.0	JD21	Lead	5.76	7439-92-1	EPA RSL	200	No
FP002-10	11/23/1992	10.0	JS12	Magnesium	3,720	7439-95-4	NMED SSL	1,550,000	No
FP002-10	11/23/1992	10.0	JS12	Manganese	236	7439-96-5	NMED SSL	464	No
FP002-10	11/23/1992	10.0	JS12	Nickel	5.07	7440-02-0	NMED SSL	753	No
FP002-10	11/23/1992	10.0	JS12	Potassium	1,350	7440-09-7	NMED SSL	15,600,000	No
FP002-10	11/23/1992	10.0	JS12	Sodium	500	7440-23-5	NMED SSL	7,820,000	No
FP002-10	11/23/1992	10.0	JS12	Vanadium	12.8	7440-62-2	NMED SSL	614	No
FP002-10	11/23/1992	10.0	JS12	Zinc	15.9	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP003-1	11/23/1992	1.0	JS12	Aluminum	30,200	7429-90-5	NMED SSL	41,400	No
FP003-1	11/23/1992	1.0	JS12	Barium	242	7440-39-3	NMED SSL	4,390	No
FP003-1	11/23/1992	1.0	JS12	Beryllium	1.16	7440-41-7	NMED SSL	148	No
FP003-1	11/23/1992	1.0	JS12	Calcium	21,300	7440-70-2	NMED SSL	8,850,000	No
FP003-1	11/23/1992	1.0	JS12	Chromium	19.3	7440-47-3	NMED SSL	96.6	No
FP003-1	11/23/1992	1.0	JS12	Cobalt	8.14	7440-48-4	NMED SSL	23.4	No
FP003-1	11/23/1992	1.0	JS12	Copper	11.4	7440-50-8	NMED SSL	3,130	No
FP003-1	11/23/1992	1.0	JS12	Iron	24,000	7439-89-6	NMED SSL	54,800	No
FP003-1	11/23/1992	1.0	JD21	Lead	14.8	7439-92-1	EPA RSL	200	No
FP003-1	11/23/1992	1.0	JS12	Magnesium	8,590	7439-95-4	NMED SSL	1,550,000	No
FP003-1	**11/23/1992**	**1.0**	**JS12**	**Manganese**	**467**	**7439-96-5**	**NMED SSL**	**464**	**Yes**
FP003-1	11/23/1992	1.0	JS12	Nickel	13.4	7440-02-0	NMED SSL	753	No
FP003-1	11/23/1992	1.0	JS12	Potassium	7,490	7440-09-7	NMED SSL	15,600,000	No
FP003-1	11/23/1992	1.0	JS12	Sodium	136	7440-23-5	NMED SSL	7,820,000	No
FP003-1	11/23/1992	1.0	JS12	Vanadium	27.6	7440-62-2	NMED SSL	614	No
FP003-1	11/23/1992	1.0	JS12	Zinc	50.9	7440-66-6	NMED SSL	106,000	No
FP003-5	11/23/1992	5.0	JS12	Aluminum	14,200	7429-90-5	NMED SSL	41,400	No
FP003-5	11/23/1992	5.0	JS12	Barium	302	7440-39-3	NMED SSL	4,390	No
FP003-5	11/23/1992	5.0	JS12	Beryllium	0.598	7440-41-7	NMED SSL	148	No
FP003-5	11/23/1992	5.0	JS12	Calcium	19,200	7440-70-2	NMED SSL	8,850,000	No
FP003-5	11/23/1992	5.0	JS12	Chromium	10.3	7440-47-3	NMED SSL	96.6	No
FP003-5	11/23/1992	5.0	JS12	Cobalt	5.02	7440-48-4	NMED SSL	23.4	No
FP003-5	11/23/1992	5.0	JS12	Copper	5.74	7440-50-8	NMED SSL	3,130	No
FP003-5	11/23/1992	5.0	JS12	Iron	14,800	7439-89-6	NMED SSL	54,800	No
FP003-5	11/23/1992	5.0	JD21	Lead	9.52	7439-92-1	EPA RSL	200	No
FP003-5	11/23/1992	5.0	JS12	Magnesium	4,930	7439-95-4	NMED SSL	1,550,000	No
FP003-5	11/23/1992	5.0	JS12	Manganese	311	7439-96-5	NMED SSL	464	No
FP003-5	11/23/1992	5.0	JS12	Nickel	7.95	7440-02-0	NMED SSL	753	No
FP003-5	11/23/1992	5.0	JS12	Potassium	2,260	7440-09-7	NMED SSL	15,600,000	No
FP003-5	11/23/1992	5.0	JS12	Sodium	147	7440-23-5	NMED SSL	7,820,000	No
FP003-5	11/23/1992	5.0	JS12	Vanadium	18.4	7440-62-2	NMED SSL	614	No
FP003-5	11/23/1992	5.0	JS12	Zinc	28.2	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP003-10	11/23/1992	10.0	JS12	Aluminum	9,570	7429-90-5	NMED SSL	41,400	No
FP003-10	11/23/1992	10.0	JS12	Barium	282	7440-39-3	NMED SSL	4,390	No
FP003-10	11/23/1992	10.0	JS12	Calcium	15,500	7440-70-2	NMED SSL	8,850,000	No
FP003-10	11/23/1992	10.0	JS12	Chromium	6.92	7440-47-3	NMED SSL	96.6	No
FP003-10	11/23/1992	10.0	JS12	Cobalt	3.19	7440-48-4	NMED SSL	23.4	No
FP003-10	11/23/1992	10.0	JS12	Copper	3.31	7440-50-8	NMED SSL	3,130	No
FP003-10	11/23/1992	10.0	JS12	Iron	10,900	7439-89-6	NMED SSL	54,800	No
FP003-10	11/23/1992	10.0	JD21	Lead	7.62	7439-92-1	EPA RSL	200	No
FP003-10	11/23/1992	10.0	JS12	Magnesium	3,540	7439-95-4	NMED SSL	1,550,000	No
FP003-10	11/23/1992	10.0	JS12	Manganese	242	7439-96-5	NMED SSL	464	No
FP003-10	11/23/1992	10.0	JS12	Nickel	5.66	7440-02-0	NMED SSL	753	No
FP003-10	11/23/1992	10.0	JS12	Potassium	1,390	7440-09-7	NMED SSL	15,600,000	No
FP003-10	11/23/1992	10.0	JS12	Sodium	290	7440-23-5	NMED SSL	7,820,000	No
FP003-10	11/23/1992	10.0	JS12	Vanadium	12.6	7440-62-2	NMED SSL	614	No
FP003-10	11/23/1992	10.0	JS12	Zinc	19.3	7440-66-6	NMED SSL	106,000	No
FP004-1	11/23/1992	1.0	JS12	Aluminum	26,500	7429-90-5	NMED SSL	41,400	No
FP004-1	11/23/1992	1.0	JS12	Barium	209	7440-39-3	NMED SSL	4,390	No
FP004-1	11/23/1992	1.0	JS12	Beryllium	0.981	7440-41-7	NMED SSL	148	No
FP004-1	11/23/1992	1.0	JS12	Calcium	21,700	7440-70-2	NMED SSL	8,850,000	No
FP004-1	11/23/1992	1.0	JS12	Chromium	16.4	7440-47-3	NMED SSL	96.6	No
FP004-1	11/23/1992	1.0	JS12	Cobalt	7.89	7440-48-4	NMED SSL	23.4	No
FP004-1	11/23/1992	1.0	JS12	Copper	11.3	7440-50-8	NMED SSL	3,130	No
FP004-1	11/23/1992	1.0	JS12	Iron	22,300	7439-89-6	NMED SSL	54,800	No
FP004-1	11/23/1992	1.0	JD21	Lead	14.8	7439-92-1	EPA RSL	200	No
FP004-1	11/23/1992	1.0	JS12	Magnesium	8,310	7439-95-4	NMED SSL	1,550,000	No
FP004-1	11/23/1992	1.0	JS12	Manganese	462	7439-96-5	NMED SSL	464	No
FP004-1	11/23/1992	1.0	JS12	Nickel	13.4	7440-02-0	NMED SSL	753	No
FP004-1	11/23/1992	1.0	JS12	Potassium	7,330	7440-09-7	NMED SSL	15,600,000	No
FP004-1	11/23/1992	1.0	JS12	Sodium	137	7440-23-5	NMED SSL	7,820,000	No
FP004-1	11/23/1992	1.0	JS12	Vanadium	21.8	7440-62-2	NMED SSL	614	No
FP004-1	11/23/1992	1.0	JS12	Zinc	50.3	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP004-5	11/23/1992	5.0	JS12	Aluminum	16,100	7429-90-5	NMED SSL	41,400	No
FP004-5	11/23/1992	5.0	JS12	Barium	307	7440-39-3	NMED SSL	4,390	No
FP004-5	11/23/1992	5.0	JS12	Beryllium	0.813	7440-41-7	NMED SSL	148	No
FP004-5	11/23/1992	5.0	JS12	Calcium	27,700	7440-70-2	NMED SSL	8,850,000	No
FP004-5	11/23/1992	5.0	JS12	Chromium	10.9	7440-47-3	NMED SSL	96.6	No
FP004-5	11/23/1992	5.0	JS12	Cobalt	5.86	7440-48-4	NMED SSL	23.4	No
FP004-5	11/23/1992	5.0	JS12	Copper	8.05	7440-50-8	NMED SSL	3,130	No
FP004-5	11/23/1992	5.0	JS12	Iron	16,600	7439-89-6	NMED SSL	54,800	No
FP004-5	11/23/1992	5.0	JD21	Lead	12.8	7439-92-1	EPA RSL	200	No
FP004-5	11/23/1992	5.0	JS12	Magnesium	5,990	7439-95-4	NMED SSL	1,550,000	No
FP004-5	11/23/1992	5.0	JS12	Manganese	384	7439-96-5	NMED SSL	464	No
FP004-5	11/23/1992	5.0	JS12	Nickel	10.2	7440-02-0	NMED SSL	753	No
FP004-5	11/23/1992	5.0	JS12	Potassium	2,230	7440-09-7	NMED SSL	15,600,000	No
FP004-5	11/23/1992	5.0	JS12	Sodium	1220	7440-23-5	NMED SSL	7,820,000	No
FP004-5	11/23/1992	5.0	JS12	Vanadium	18.2	7440-62-2	NMED SSL	614	No
FP004-5	11/23/1992	5.0	JS12	Zinc	35.1	7440-66-6	NMED SSL	106,000	No
FP004-10	11/23/1992	10.0	JS12	Aluminum	9,590	7429-90-5	NMED SSL	41,400	No
FP004-10	11/23/1992	10.0	JS12	Barium	216	7440-39-3	NMED SSL	4,390	No
FP004-10	11/23/1992	10.0	JS12	Calcium	15,200	7440-70-2	NMED SSL	8,850,000	No
FP004-10	11/23/1992	10.0	JS12	Chromium	6.58	7440-47-3	NMED SSL	96.6	No
FP004-10	11/23/1992	10.0	JS12	Cobalt	3.57	7440-48-4	NMED SSL	23.4	No
FP004-10	11/23/1992	10.0	JS12	Copper	3.30	7440-50-8	NMED SSL	3,130	No
FP004-10	11/23/1992	10.0	JS12	Iron	10,900	7439-89-6	NMED SSL	54,800	No
FP004-10	11/23/1992	10.0	JD21	Lead	6.49	7439-92-1	EPA RSL	200	No
FP004-10	11/23/1992	10.0	JS12	Magnesium	3,690	7439-95-4	NMED SSL	1,550,000	No
FP004-10	11/23/1992	10.0	JS12	Manganese	255	7439-96-5	NMED SSL	464	No
FP004-10	11/23/1992	10.0	JS12	Nickel	4.96	7440-02-0	NMED SSL	753	No
FP004-10	11/23/1992	10.0	JS12	Potassium	1,320	7440-09-7	NMED SSL	15,600,000	No
FP004-10	11/23/1992	10.0	JS12	Sodium	523	7440-23-5	NMED SSL	7,820,000	No
FP004-10	11/23/1992	10.0	JS12	Vanadium	14.2	7440-62-2	NMED SSL	614	No
FP004-10	11/23/1992	10.0	JS12	Zinc	17.8	7440-66-6	NMED SSL	106,000	No

Table B.3-1
SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP005-1	11/23/1992	1.0	JS12	Aluminum	32,600	7429-90-5	NMED SSL	41,400	No
FP005-1	11/23/1992	1.0	JS12	Barium	310	7440-39-3	NMED SSL	4,390	No
FP005-1	11/23/1992	1.0	JS12	Beryllium	1.12	7440-41-7	NMED SSL	148	No
FP005-1	11/23/1992	1.0	JS12	Calcium	20,700	7440-70-2	NMED SSL	8,850,000	No
FP005-1	11/23/1992	1.0	JS12	Chromium	19.8	7440-47-3	NMED SSL	96.6	No
FP005-1	11/23/1992	1.0	JS12	Cobalt	8.00	7440-48-4	NMED SSL	23.4	No
FP005-1	11/23/1992	1.0	JS12	Copper	11.4	7440-50-8	NMED SSL	3,130	No
FP005-1	11/23/1992	1.0	JS12	Iron	24,800	7439-89-6	NMED SSL	54,800	No
FP005-1	11/23/1992	1.0	JD21	Lead	13.8	7439-92-1	EPA RSL	200	No
FP005-1	11/23/1992	1.0	JS12	Magnesium	9,210	7439-95-4	NMED SSL	1,550,000	No
FP005-1	**11/23/1992**	**1.0**	**JS12**	**Manganese**	**477**	**7439-96-5**	**NMED SSL**	**464**	**Yes**
FP005-1	11/23/1992	1.0	JS12	Nickel	14.1	7440-02-0	NMED SSL	753	No
FP005-1	11/23/1992	1.0	JS12	Potassium	8,730	7440-09-7	NMED SSL	15,600,000	No
FP005-1	11/23/1992	1.0	JS12	Sodium	231	7440-23-5	NMED SSL	7,820,000	No
FP005-1	11/23/1992	1.0	JS12	Vanadium	29.5	7440-62-2	NMED SSL	614	No
FP005-1	11/23/1992	1.0	JS12	Zinc	53.3	7440-66-6	NMED SSL	106,000	No
FP005-5	11/23/1992	5.0	JS12	Aluminum	9,580	7429-90-5	NMED SSL	41,400	No
FP005-5	11/23/1992	5.0	JS12	Barium	146	7440-39-3	NMED SSL	4,390	No
FP005-5	11/23/1992	5.0	JS12	Calcium	13,000	7440-70-2	NMED SSL	8,850,000	No
FP005-5	11/23/1992	5.0	JS12	Chromium	6.66	7440-47-3	NMED SSL	96.6	No
FP005-5	11/23/1992	5.0	JS12	Cobalt	3.07	7440-48-4	NMED SSL	23.4	No
FP005-5	11/23/1992	5.0	JS12	Iron	9,580	7439-89-6	NMED SSL	54,800	No
FP005-5	11/23/1992	5.0	JD21	Lead	7.42	7439-92-1	EPA RSL	200	No
FP005-5	11/23/1992	5.0	JS12	Magnesium	3,500	7439-95-4	NMED SSL	1,550,000	No
FP005-5	11/23/1992	5.0	JS12	Manganese	206	7439-96-5	NMED SSL	464	No
FP005-5	11/23/1992	5.0	JS12	Nickel	4.65	7440-02-0	NMED SSL	753	No
FP005-5	11/23/1992	5.0	JS12	Potassium	1,520	7440-09-7	NMED SSL	15,600,000	No
FP005-5	11/23/1992	5.0	JS12	Sodium	497	7440-23-5	NMED SSL	7,820,000	No
FP005-5	11/23/1992	5.0	JS12	Vanadium	11.6	7440-62-2	NMED SSL	614	No
FP005-5	11/23/1992	5.0	JS12	Zinc	16.3	7440-66-6	NMED SSL	106,000	No

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SWMU 9 - POL Waste Discharge Area
Summary of Detectable Concentrations for Previous Soil Sample Analyses

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
FP005-10	11/23/1992	10.0	JS12	Aluminum	19,100	7429-90-5	NMED SSL	41,400	No
FP005-10	11/23/1992	10.0	JS12	Barium	445	7440-39-3	NMED SSL	4,390	No
FP005-10	11/23/1992	10.0	JS12	Beryllium	0.786	7440-41-7	NMED SSL	148	No
FP005-10	11/23/1992	10.0	JS12	Calcium	29,500	7440-70-2	NMED SSL	8,850,000	No
FP005-10	11/23/1992	10.0	JS12	Chromium	12.9	7440-47-3	NMED SSL	96.6	No
FP005-10	11/23/1992	10.0	JS12	Cobalt	6.12	7440-48-4	NMED SSL	23.4	No
FP005-10	11/23/1992	10.0	JS12	Copper	8.42	7440-50-8	NMED SSL	3,130	No
FP005-10	11/23/1992	10.0	JS12	Iron	18,200	7439-89-6	NMED SSL	54,800	No
FP005-10	11/23/1992	10.0	JD21	Lead	13.0	7439-92-1	EPA RSL	200	No
FP005-10	11/23/1992	10.0	JS12	Magnesium	6,040	7439-95-4	NMED SSL	1,550,000	No
FP005-10	11/23/1992	10.0	JS12	Manganese	352	7439-96-5	NMED SSL	464	No
FP005-10	11/23/1992	10.0	JS12	Nickel	10.4	7440-02-0	NMED SSL	753	No
FP005-10	11/23/1992	10.0	JS12	Potassium	3,010	7440-09-7	NMED SSL	15,600,000	No
FP005-10	11/23/1992	10.0	JS12	Sodium	998	7440-23-5	NMED SSL	7,820,000	No
FP005-10	11/23/1992	10.0	JS12	Vanadium	20.4	7440-62-2	NMED SSL	614	No
FP005-10	11/23/1992	10.0	JS12	Zinc	34.5	7440-66-6	NMED SSL	106,000	No

Notes:

CAS - Chemical Abstract Services
feet bgs - feet below ground surface
mg/kg - milligrams per kilogram
ND - non-detection
NS - no standard

*The lowest of the 2022 NMED screening levels for residents, industrial/occupational workers, and construction workers (or May 2024 EPA RSL, HQ=1 and adjusted target excess cancer risk level of 1 x 10-5, if there is no NMED screening level).

Table B.3-2
SWMU 9 - POL Waste Discharge Area - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS001-0.5-1.0DSO	8/13/2014	8260B	67-64-1	Acetone	0.22	0.26	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8260B	75-09-2	Methylene Chloride	0.14	0.1	mg/kg	J	J	NMED SSL	409	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8260B	67-64-1	Acetone	1.9	0.38	mg/kg		J	NMED SSL	66,300	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8260B	75-09-2	Methylene Chloride	0.22	0.15	mg/kg	J	J	NMED SSL	409	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8260B	108-88-3	Toluene	0.04	0.075	mg/kg	J	J	NMED SSL	5,230	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	8260B	67-64-1	Acetone	0.36	0.31	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	8260B	75-09-2	Methylene Chloride	0.19	0.12	mg/kg	J	J	NMED SSL	409	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.39	0.28	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.16	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS002-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.34	0.29	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS002-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.18	0.12	mg/kg	J	J	NMED SSL	409	no
0709POLSS003-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.31	0.28	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS003-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.17	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS003-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.32	0.21	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS003-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.13	0.085	mg/kg	J	J	NMED SSL	409	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.3	0.29	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.17	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.29	0.27	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.18	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8260B	67-64-1	Acetone	0.38	0.28	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8260B	75-09-2	Methylene Chloride	0.2	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.39	0.28	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.19	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS005-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.46	0.28	mg/kg	J	J	NMED SSL	66,300	no

Table B.3-2
SWMU 9 - POL Waste Discharge Area - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS005-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.18	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.19	0.25	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.17	0.1	mg/kg	J	J	NMED SSL	409	no
0709POLSS006-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.27	0.27	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS006-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.18	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS007-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.26	0.26	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS007-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.16	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS007-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.28	0.26	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS007-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.16	0.1	mg/kg	J	J	NMED SSL	409	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.037	0.1	mg/kg	J	J	EPA RSL	300	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.037	0.1	mg/kg	J	J	EPA RSL	270	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.48	0.26	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.16	0.1	mg/kg	J	J	NMED SSL	409	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8260B	95-47-6	o-Xylene	0.032	0.052	mg/kg	J	J	NMED SSL	736	no
0709POLSS008-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.27	0.27	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS008-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.17	0.11	mg/kg	J	J	NMED SSL	409	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.4	0.1	mg/kg			EPA RSL	300	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.33	0.1	mg/kg			EPA RSL	270	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	99-87-6	4-Isopropyltoluene	0.17	0.05	mg/kg	J	J	NMED SSL	2,360	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	108-10-1	4-Methyl-2-Pentanone (MIBK)	0.14	0.25	mg/kg	J	J	NMED SSL	5,810	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.34	0.25	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	100-41-4	Ethylbenzene	0.032	0.05	mg/kg	J	J	NMED SSL	75.1	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	136777-61-2	m,p-Xylenes	0.11	0.1	mg/kg	J	J	EPA RSL	798	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.19	0.1	mg/kg	J	J	NMED SSL	409	no

Table B.3-2
SWMU 9 - POL Waste Discharge Area - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	91-20-3	Naphthalene	0.25	0.1	mg/kg			NMED SSL	22.6	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	104-51-8	n-Butylbenzene	0.27	0.05	mg/kg			EPA RSL	3,900	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	103-65-1	n-Propylbenzene	0.058	0.05	mg/kg	J	J	EPA RSL	3,800	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	95-47-6	o-Xylene	0.16	0.05	mg/kg	J	J	NMED SSL	736	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8260B	135-98-8	Sec-Butylbenzene	0.063	0.05	mg/kg	J	J	EPA RSL	7,800	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.52	0.34	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.23	0.14	mg/kg	J	J	NMED SSL	409	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.26	0.21	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.15	0.084	mg/kg	J	J	NMED SSL	409	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8260B	127-18-4	Tetrachloroethene	0.027	0.042	mg/kg	J	J	NMED SSL	111	no
0709POLSS010-1.5-2.0DSO	8/14/2014	8260B	67-64-1	Acetone	0.26	0.26	mg/kg	J	J	NMED SSL	66,300	no
0709POLSS010-1.5-2.0DSO	8/14/2014	8260B	75-09-2	Methylene Chloride	0.18	0.11	mg/kg	J	J	NMED SSL	409	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.3-3
SWMU 9 - POL Waste Discharge Area - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0028	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0018	0.0030	mg/kg	J	J	NMED SSL	1.12	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0037	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	218-01-9	Chrysene	0.0021	0.0030	mg/kg	J	J	NMED SSL	153	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	206-44-0	Fluoranthene	0.0041	0.0030	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	85-01-8	Phenanthrene	0.0020	0.0030	mg/kg	J	J	NMED SSL	1,850	no
0709POLSS001-0.5-1.0DSO	8/13/2014	8270C SIM	129-00-0	Pyrene	0.0035	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0022	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0024	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8270C SIM	206-44-0	Fluoranthene	0.0019	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0016	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS001-1.5-2.0DSO	8/13/2014	8270C SIM	129-00-0	Pyrene	0.0018	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0023	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0021	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	120-12-7	Anthracene	0.0028	0.0028	mg/kg	J	J	NMED SSL	17,400	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0080	0.0028	mg/kg			NMED SSL	1.53	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0073	0.0028	mg/kg			NMED SSL	1.12	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.016	0.0028	mg/kg			NMED SSL	1.53	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0089	0.0028	mg/kg			NMED SSL	1,740	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0042	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	218-01-9	Chrysene	0.0067	0.0028	mg/kg			NMED SSL	153	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.014	0.0028	mg/kg			NMED SSL	2,320	no

Table B.3-3
SWMU 9 - POL Waste Discharge Area - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0064	0.0028	mg/kg			NMED SSL	1.53	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.0056	0.0028	mg/kg			NMED SSL	1,850	no
0709POLSS002-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.011	0.0028	mg/kg			NMED SSL	1,740	no
0709POLSS002-1.5-2.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0024	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS003-1.5-2.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0029	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0057	0.0027	mg/kg			NMED SSL	1.53	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0052	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.01	0.0027	mg/kg			NMED SSL	1.53	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0058	0.0027	mg/kg			NMED SSL	1,740	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0030	0.0027	mg/kg	J	J	NMED SSL	15.3	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	218-01-9	Chrysene	0.0058	0.0027	mg/kg			NMED SSL	153	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.01	0.0027	mg/kg			NMED SSL	2,320	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0042	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.0038	0.0027	mg/kg	J	J	NMED SSL	1,850	no
0709POLSS004-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.0083	0.0027	mg/kg			NMED SSL	1,740	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0042	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.0033	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS004-1.5-2.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0022	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0039	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0023	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.0025	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	8270C SIM	129-00-0	Pyrene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1,740	no

Table B.3-3
SWMU 9 - POL Waste Discharge Area - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0042	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0044	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.0048	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.0019	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0709POLSS005-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.0036	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0026	0.0030	mg/kg	J	J	NMED SSL	1.12	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0053	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0029	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.0052	0.0030	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS006-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.0041	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS007-0.5-1.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.0076	0.0027	mg/kg			NMED SSL	1,740	no
0709POLSS007-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.067	0.0027	mg/kg			NMED SSL	1,740	no
0709POLSS007-1.5-2.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.015	0.0029	mg/kg			NMED SSL	1,740	no
0709POLSS007-1.5-2.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.061	0.0029	mg/kg			NMED SSL	1,740	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.02	0.013	mg/kg	J	J	NMED SSL	1,740	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	120-12-7	Anthracene	0.021	0.013	mg/kg	J	J	NMED SSL	17,400	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.1	0.013	mg/kg			NMED SSL	1,740	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.071	0.013	mg/kg			NMED SSL	2,320	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	86-73-7	Fluorene	0.014	0.013	mg/kg	J	J	NMED SSL	2,320	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.085	0.013	mg/kg			NMED SSL	1,850	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.12	0.013	mg/kg			NMED SSL	1,740	no
0709POLSS008-1.5-2.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.023	0.0028	mg/kg			NMED SSL	1,740	no

Table B.3-3
SWMU 9 - POL Waste Discharge Area - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS008-1.5-2.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.054	0.0028	mg/kg			NMED SSL	1,740	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	83-32-9	Acenaphthene	0.021	0.014	mg/kg	J	J	NMED SSL	3,480	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.045	0.014	mg/kg			NMED SSL	1,740	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	120-12-7	Anthracene	0.028	0.014	mg/kg			NMED SSL	17,400	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.28	0.014	mg/kg			NMED SSL	1,740	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.18	0.014	mg/kg			NMED SSL	2,320	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	86-73-7	Fluorene	0.036	0.014	mg/kg			NMED SSL	2,320	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	91-20-3	Naphthalene	0.13	0.014	mg/kg			NMED SSL	22.6	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.12	0.014	mg/kg			NMED SSL	1,850	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.33	0.014	mg/kg			NMED SSL	1,740	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.026	0.0030	mg/kg			NMED SSL	1,740	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.037	0.0030	mg/kg			NMED SSL	2,320	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8270C SIM	91-20-3	Naphthalene	0.016	0.0030	mg/kg			NMED SSL	22.6	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.023	0.0030	mg/kg			NMED SSL	1,850	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.079	0.0030	mg/kg			NMED SSL	1,740	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.042	0.013	mg/kg			NMED SSL	1,740	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8270C SIM	206-44-0	Fluoranthene	0.053	0.013	mg/kg			NMED SSL	2,320	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8270C SIM	91-20-3	Naphthalene	0.044	0.013	mg/kg			NMED SSL	22.6	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8270C SIM	85-01-8	Phenanthrene	0.076	0.013	mg/kg			NMED SSL	1,850	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8270C SIM	129-00-0	Pyrene	0.33	0.013	mg/kg			NMED SSL	1,740	no
0709POLSS010-1.5-2.0DSO	8/14/2014	8270C SIM	208-96-8	Acenaphthylene	0.0045	0.0027	mg/kg	J	J	NMED SSL	1,740	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.3-4
SWMU 9 - POL Waste Discharge Area - TPH Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS007-0.5-1.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	230	5.5	mg/kg			NMED SSL	1,000	no
0709POLSS007-1.5-2.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	300	5.7	mg/kg			NMED SSL	1,000	no
0709POLSS008-0.5-1.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	1,200	54	mg/kg			NMED SSL	1,000	YES
0709POLSS008-0.5-1.0DSO	8/14/2014	8015B	8006-61-1	TPH-GRO	4.7	0.51	mg/kg			NMED SSL	100	no
0709POLSS008-1.5-2.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	3,000	28	mg/kg			NMED SSL	1,000	YES
0709POLSS008-1.5-2.0DSO	8/14/2014	8015B	8006-61-1	TPH-GRO	0.70	0.53	mg/kg	J	J	NMED SSL	100	no
0709POLSS009-0.5-1.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	6,000	54	mg/kg			NMED SSL	1,000	YES
0709POLSS009-0.5-1.0DSO	8/14/2014	8015B	8006-61-1	TPH-GRO	50	0.65	mg/kg			NMED SSL	100	no
0709POLSS009-1.5-2.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	4,100	30	mg/kg			NMED SSL	1,000	YES
0709POLSS009-1.5-2.0DSO	8/14/2014	8015B	8006-61-1	TPH-GRO	8.1	0.49	mg/kg			NMED SSL	100	no
0709POLSS010-0.5-1.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	4,400	26	mg/kg			NMED SSL	1,000	YES
0709POLSS010-0.5-1.0DSO	8/14/2014	8015B	8006-61-1	TPH-GRO	6.3	0.47	mg/kg			NMED SSL	100	no
0709POLSS010-1.5-2.0DSO	8/14/2014	8015B	68334-30-5	TPH-DRO	370	5.5	mg/kg			NMED SSL	1,000	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.3-5
SWMU 9 - POL Waste Discharge Area - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS001-0.5-1.0DSO	8/13/2014	SW6010B	7440-38-2	Arsenic	4.06	0.453	mg/kg			NMED SSL	7.07	no
0709POLSS001-0.5-1.0DSO	8/13/2014	SW6010B	7440-39-3	Barium	240	0.227	mg/kg			NMED SSL	4,390	no
0709POLSS001-0.5-1.0DSO	8/13/2014	SW6010B	7440-43-9	Cadmium	0.147	0.227	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS001-0.5-1.0DSO	8/13/2014	SW6010B	7439-92-1	Lead	14.6	0.340	mg/kg			EPA RSL	200	no
0709POLSS001-0.5-1.0DSO	8/13/2014	SW6010B	7440-47-3	Total Chromium	14.6	0.340	mg/kg			NMED SSL	96.6	no
0709POLSS001-1.5-2.0DSO	8/13/2014	SW6010B	7440-38-2	Arsenic	3.68	0.404	mg/kg			NMED SSL	7.07	no
0709POLSS001-1.5-2.0DSO	8/13/2014	SW6010B	7440-39-3	Barium	292	0.202	mg/kg		J	NMED SSL	4,390	no
0709POLSS001-1.5-2.0DSO	8/13/2014	SW6010B	7439-92-1	Lead	13.7	0.303	mg/kg			EPA RSL	200	no
0709POLSS001-1.5-2.0DSO	8/13/2014	SW6010B	7440-47-3	Total Chromium	12.7	0.303	mg/kg			NMED SSL	96.6	no
0709POLSS001-1.5-2.0DSO	8/13/2014	SW7471A	7439-97-6	Mercury	0.0218	0.022	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	SW6010B	7440-38-2	Arsenic	3.69	0.400	mg/kg			NMED SSL	7.07	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	SW6010B	7440-39-3	Barium	204	0.200	mg/kg		J	NMED SSL	4,390	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	SW6010B	7439-92-1	Lead	12.5	0.300	mg/kg			EPA RSL	200	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	SW6010B	7440-47-3	Total Chromium	12.0	0.300	mg/kg			NMED SSL	96.6	no
0709POLSS001-1.5-2.0DSO-DUP	8/13/2014	SW7471A	7439-97-6	Mercury	0.0187	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.22	0.430	mg/kg			NMED SSL	7.07	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	291	0.215	mg/kg		J	NMED SSL	4,390	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.115	0.215	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	15.6	0.322	mg/kg			EPA RSL	200	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	19.0	0.322	mg/kg			NMED SSL	96.6	no
0709POLSS002-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0150	0.0222	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.45	0.438	mg/kg			NMED SSL	7.07	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	242	0.219	mg/kg			NMED SSL	4,390	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.114	0.219	mg/kg	J	J	NMED SSL	70.5	no

Table B.3-5
SWMU 9 - POL Waste Discharge Area - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	15.2	0.329	mg/kg			EPA RSL	200	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7782-49-2	Selenium	0.409	0.548	mg/kg	J	J	NMED SSL	391	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	18.6	0.329	mg/kg			NMED SSL	96.6	no
0709POLSS002-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0334	0.0219	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS003-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.08	0.436	mg/kg			NMED SSL	7.07	no
0709POLSS003-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	262	0.218	mg/kg			NMED SSL	4,390	no
0709POLSS003-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	14.5	0.327	mg/kg			EPA RSL	200	no
0709POLSS003-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	17.5	0.327	mg/kg			NMED SSL	96.6	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.17	0.479	mg/kg			NMED SSL	7.07	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	318	0.240	mg/kg			NMED SSL	4,390	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	14.1	0.359	mg/kg			EPA RSL	200	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW6010B	7782-49-2	Selenium	0.353	0.599	mg/kg	J	J	NMED SSL	391	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	17.0	0.359	mg/kg			NMED SSL	96.6	no
0709POLSS003-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0263	0.0237	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS004-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.96	0.418	mg/kg			NMED SSL	7.07	no
0709POLSS004-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	259	0.209	mg/kg			NMED SSL	4,390	no
0709POLSS004-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	14.9	0.314	mg/kg			EPA RSL	200	no
0709POLSS004-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	16.7	0.314	mg/kg			NMED SSL	96.6	no
0709POLSS004-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0156	0.0218	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS004-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.91	0.429	mg/kg			NMED SSL	7.07	no
0709POLSS004-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	305	0.215	mg/kg			NMED SSL	4,390	no
0709POLSS004-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	14.7	0.322	mg/kg			EPA RSL	200	no
0709POLSS004-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	18.4	0.322	mg/kg			NMED SSL	96.6	no
0709POLSS004-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0162	0.022	mg/kg	J	J	NMED SSL	20.7	no

Table B.3-5
SWMU 9 - POL Waste Discharge Area - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	SW6010B	7440-38-2	Arsenic	3.93	0.423	mg/kg			NMED SSL	7.07	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	SW6010B	7440-39-3	Barium	322	0.212	mg/kg			NMED SSL	4,390	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	SW6010B	7439-92-1	Lead	14.6	0.318	mg/kg			EPA RSL	200	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	SW6010B	7440-47-3	Total Chromium	19.2	0.318	mg/kg			NMED SSL	96.6	no
0709POLSS004-1.5-2.0DSO-DUP	8/14/2014	SW7471A	7439-97-6	Mercury	0.0147	0.0218	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS005-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.17	0.433	mg/kg			NMED SSL	7.07	no
0709POLSS005-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	220	0.216	mg/kg			NMED SSL	4,390	no
0709POLSS005-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	13.1	0.325	mg/kg			EPA RSL	200	no
0709POLSS005-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	16.4	0.325	mg/kg			NMED SSL	96.6	no
0709POLSS005-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0137	0.022	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS005-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.06	0.415	mg/kg			NMED SSL	7.07	no
0709POLSS005-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	195	0.208	mg/kg			NMED SSL	4,390	no
0709POLSS005-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	13.3	0.311	mg/kg			EPA RSL	200	no
0709POLSS005-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	14.0	0.311	mg/kg			NMED SSL	96.6	no
0709POLSS005-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0193	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.35	0.440	mg/kg			NMED SSL	7.07	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	264	0.220	mg/kg			NMED SSL	4,390	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.132	0.220	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	17.6	0.330	mg/kg			EPA RSL	200	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	21.4	0.330	mg/kg			NMED SSL	96.6	no
0709POLSS006-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0124	0.024	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS006-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.11	0.442	mg/kg			NMED SSL	7.07	no
0709POLSS006-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	249	0.221	mg/kg			NMED SSL	4,390	no
0709POLSS006-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	14.5	0.331	mg/kg			EPA RSL	200	no

Table B.3-5
SWMU 9 - POL Waste Discharge Area - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS006-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	16.7	0.331	mg/kg			NMED SSL	96.6	no
0709POLSS006-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0335	0.0238	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS007-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	2.23	0.428	mg/kg			NMED SSL	7.07	no
0709POLSS007-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	237	0.214	mg/kg			NMED SSL	4,390	no
0709POLSS007-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	55.7	0.321	mg/kg			EPA RSL	200	no
0709POLSS007-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	8.74	0.321	mg/kg			NMED SSL	96.6	no
0709POLSS007-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.92	0.421	mg/kg			NMED SSL	7.07	no
0709POLSS007-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	297	0.211	mg/kg			NMED SSL	4,390	no
0709POLSS007-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	35.4	0.316	mg/kg			EPA RSL	200	no
0709POLSS007-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	16.6	0.316	mg/kg			NMED SSL	96.6	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	2.69	0.393	mg/kg			NMED SSL	7.07	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	667	0.196	mg/kg			NMED SSL	4,390	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.737	0.196	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	710	0.294	mg/kg			EPA RSL	200	YES
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7440-22-4	Silver	0.530	0.294	mg/kg	J	J	NMED SSL	391	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	18.3	0.294	mg/kg			NMED SSL	96.6	no
0709POLSS008-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0127	0.0214	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS008-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.01	0.430	mg/kg			NMED SSL	7.07	no
0709POLSS008-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	202	0.215	mg/kg			NMED SSL	4,390	no
0709POLSS008-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	45.6	0.322	mg/kg			EPA RSL	200	no
0709POLSS008-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	12.2	0.322	mg/kg			NMED SSL	96.6	no
0709POLSS009-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	4.73	0.390	mg/kg			NMED SSL	7.07	no
0709POLSS009-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	650	0.195	mg/kg			NMED SSL	4,390	no
0709POLSS009-0.5-1.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.282	0.195	mg/kg	J	J	NMED SSL	70.5	no

Table B.3-5
SWMU 9 - POL Waste Discharge Area - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0709POLSS009-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	216	0.292	mg/kg			EPA RSL	200	YES
0709POLSS009-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	15.9	0.292	mg/kg			NMED SSL	96.6	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.73	0.467	mg/kg			NMED SSL	7.07	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	322	0.233	mg/kg			NMED SSL	4,390	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.120	0.233	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	33.4	0.350	mg/kg			EPA RSL	200	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	17.0	0.350	mg/kg			NMED SSL	96.6	no
0709POLSS009-1.5-2.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0124	0.024	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	3.29	0.390	mg/kg			NMED SSL	7.07	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	627	0.195	mg/kg			NMED SSL	4,390	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7440-43-9	Cadmium	0.794	0.195	mg/kg	J	J	NMED SSL	70.5	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	1,190	0.292	mg/kg			EPA RSL	200	YES
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7440-22-4	Silver	0.228	0.292	mg/kg	J	J	NMED SSL	391	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	64.2	0.292	mg/kg			NMED SSL	96.6	no
0709POLSS010-0.5-1.0DSO	8/14/2014	SW7471A	7439-97-6	Mercury	0.0461	0.0206	mg/kg	J	J	NMED SSL	20.7	no
0709POLSS010-1.5-2.0DSO	8/14/2014	SW6010B	7440-38-2	Arsenic	2.04	0.431	mg/kg			NMED SSL	7.07	no
0709POLSS010-1.5-2.0DSO	8/14/2014	SW6010B	7440-39-3	Barium	169	0.215	mg/kg			NMED SSL	4,390	no
0709POLSS010-1.5-2.0DSO	8/14/2014	SW6010B	7439-92-1	Lead	16.1	0.323	mg/kg			EPA RSL	200	no
0709POLSS010-1.5-2.0DSO	8/14/2014	SW6010B	7440-47-3	Total Chromium	8.16	0.323	mg/kg			NMED SSL	96.6	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB01-1	11/19/1992	1.0	JS12	Aluminum	27,400	7429-90-5	NMED SSL	41,400	No
OTB01-1	11/19/1992	1.0	JS12	Barium	322	7440-39-3	NMED SSL	4,390	No
OTB01-1	11/19/1992	1.0	JS12	Beryllium	0.862	7440-41-7	NMED SSL	148	No
OTB01-1	11/19/1992	1.0	JS12	Calcium	110,000	7440-70-2	NMED SSL	8,850,000	No
OTB01-1	11/19/1992	1.0	JS12	Chromium	16.6	7440-47-3	NMED SSL	96.6	No
OTB01-1	11/19/1992	1.0	JS12	Cobalt	5.87	7440-48-4	NMED SSL	23.4	No
OTB01-1	11/19/1992	1.0	JS12	Copper	4.21	7440-50-8	NMED SSL	3,130	No
OTB01-1	11/19/1992	1.0	JS12	Iron	17,600	7439-89-6	NMED SSL	54,800	No
OTB01-1	11/19/1992	1.0	JD21	Lead	9.41	7439-92-1	EPA RSL	200	No
OTB01-1	11/19/1992	1.0	JS12	Magnesium	12,600	7439-95-4	NMED SSL	1,550,000	No
OTB01-1	**11/19/1992**	**1.0**	**JS12**	**Manganese**	**652**	**7439-96-5**	**NMED SSL**	**464**	**Yes**
OTB01-1	11/19/1992	1.0	JS12	Nickel	11.1	7440-02-0	NMED SSL	753	No
OTB01-1	11/19/1992	1.0	JS12	Potassium	6,200	7440-09-7	NMED SSL	15,600,000	No
OTB01-1	11/19/1992	1.0	JS12	Sodium	893	7440-23-5	NMED SSL	7,820,000	No
OTB01-1	11/19/1992	1.0	JS12	Vanadium	27.9	7440-62-2	NMED SSL	614	No
OTB01-1	11/19/1992	1.0	JS12	Zinc	22.4	7440-66-6	NMED SSL	106,000	No
OTB01-5	11/19/1992	5.0	JS12	Aluminum	39,100	7429-90-5	NMED SSL	41,400	No
OTB01-5	11/19/1992	5.0	JS12	Barium	306	7440-39-3	NMED SSL	4,390	No
OTB01-5	11/19/1992	5.0	JS12	Beryllium	1.55	7440-41-7	NMED SSL	148	No
OTB01-5	11/19/1992	5.0	JS12	Calcium	23,100	7440-70-2	NMED SSL	8,850,000	No
OTB01-5	11/19/1992	5.0	JS12	Chromium	22.8	7440-47-3	NMED SSL	96.6	No
OTB01-5	11/19/1992	5.0	JS12	Cobalt	9.26	7440-48-4	NMED SSL	23.4	No
OTB01-5	11/19/1992	5.0	JS12	Copper	10.7	7440-50-8	NMED SSL	3,130	No
OTB01-5	11/19/1992	5.0	JS12	Iron	27,300	7439-89-6	NMED SSL	54,800	No
OTB01-5	11/19/1992	5.0	JD21	Lead	15.1	7439-92-1	EPA RSL	200	No
OTB01-5	11/19/1992	5.0	JS12	Magnesium	12,000	7439-95-4	NMED SSL	1,550,000	No
OTB01-5	11/19/1992	5.0	JS12	Manganese	379	7439-96-5	NMED SSL	464	No
OTB01-5	11/19/1992	5.0	JS12	Nickel	16.0	7440-02-0	NMED SSL	753	No
OTB01-5	11/19/1992	5.0	JS12	Potassium	7,440	7440-09-7	NMED SSL	15,600,000	No
OTB01-5	11/19/1992	5.0	JS12	Sodium	3,640	7440-23-5	NMED SSL	7,820,000	No
OTB01-5	11/19/1992	5.0	JS12	Vanadium	35.7	7440-62-2	NMED SSL	614	No
OTB01-5	11/19/1992	5.0	JS12	Zinc	48.9	7440-66-6	NMED SSL	106,000	No

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB01-10	11/19/1992	10.0	JS12	Aluminum	31,800	7429-90-5	NMED SSL	41,400	No
OTB01-10	11/19/1992	10.0	JS12	Barium	404	7440-39-3	NMED SSL	4,390	No
OTB01-10	11/19/1992	10.0	JS12	Beryllium	1.48	7440-41-7	NMED SSL	148	No
OTB01-10	11/19/1992	10.0	JS12	Calcium	33,600	7440-70-2	NMED SSL	8,850,000	No
OTB01-10	11/19/1992	10.0	JS12	Chromium	19.9	7440-47-3	NMED SSL	96.6	No
OTB01-10	11/19/1992	10.0	JS12	Cobalt	8.65	7440-48-4	NMED SSL	23.4	No
OTB01-10	11/19/1992	10.0	JS12	Copper	6.93	7440-50-8	NMED SSL	3,130	No
OTB01-10	11/19/1992	10.0	JS12	Iron	23,200	7439-89-6	NMED SSL	54,800	No
OTB01-10	11/19/1992	10.0	JD21	Lead	14.3	7439-92-1	EPA RSL	200	No
OTB01-10	11/19/1992	10.0	JS12	Magnesium	12,100	7439-95-4	NMED SSL	1,550,000	No
OTB01-10	11/19/1992	10.0	JS12	Manganese	427	7439-96-5	NMED SSL	464	No
OTB01-10	11/19/1992	10.0	JS12	Nickel	16.7	7440-02-0	NMED SSL	753	No
OTB01-10	11/19/1992	10.0	JS12	Potassium	5,910	7440-09-7	NMED SSL	15,600,000	No
OTB01-10	11/19/1992	10.0	JS12	Sodium	3,370	7440-23-5	NMED SSL	7,820,000	No
OTB01-10	11/19/1992	10.0	JS12	Vanadium	19.0	7440-62-2	NMED SSL	614	No
OTB01-10	11/19/1992	10.0	JS12	Zinc	30.2	7440-66-6	NMED SSL	106,000	No
OTB02-1	11/19/1992	1.0	JS12	Aluminum	28,500	7429-90-5	NMED SSL	41,400	No
OTB02-1	11/19/1992	1.0	JS12	Barium	278	7440-39-3	NMED SSL	4,390	No
OTB02-1	11/19/1992	1.0	JS12	Beryllium	1.04	7440-41-7	NMED SSL	148	No
OTB02-1	11/19/1992	1.0	JS12	Calcium	33,700	7440-70-2	NMED SSL	8,850,000	No
OTB02-1	11/19/1992	1.0	JS12	Chromium	18.2	7440-47-3	NMED SSL	96.6	No
OTB02-1	11/19/1992	1.0	JS12	Cobalt	7.19	7440-48-4	NMED SSL	23.4	No
OTB02-1	11/19/1992	1.0	JS12	Copper	7.27	7440-50-8	NMED SSL	3,130	No
OTB02-1	11/19/1992	1.0	JS12	Iron	19,700	7439-89-6	NMED SSL	54,800	No
OTB02-1	11/19/1992	1.0	JD21	Lead	18.6	7439-92-1	EPA RSL	200	No
OTB02-1	11/19/1992	1.0	JS12	Magnesium	9,650	7439-95-4	NMED SSL	1,550,000	No
OTB02-1	11/19/1992	1.0	JS12	Manganese	405	7439-96-5	NMED SSL	464	No
OTB02-1	11/19/1992	1.0	JS12	Nickel	11.9	7440-02-0	NMED SSL	753	No
OTB02-1	11/19/1992	1.0	JS12	Potassium	7,100	7440-09-7	NMED SSL	15,600,000	No
OTB02-1	11/19/1992	1.0	JS12	Sodium	410	7440-23-5	NMED SSL	7,820,000	No
OTB02-1	11/19/1992	1.0	JS12	Vanadium	24.1	7440-62-2	NMED SSL	614	No
OTB02-1	11/19/1992	1.0	JS12	Zinc	32.2	7440-66-6	NMED SSL	106,000	No

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB02-5	**11/19/1992**	**5.0**	**JS12**	**Aluminum**	**55,600**	**7429-90-5**	**NMED SSL**	**41,400**	**Yes**
OTB02-5	11/19/1992	5.0	JS12	Barium	352	7440-39-3	NMED SSL	4,390	No
OTB02-5	11/19/1992	5.0	JS12	Beryllium	1.99	7440-41-7	NMED SSL	148	No
OTB02-5	11/19/1992	5.0	JS12	Calcium	33,100	7440-70-2	NMED SSL	8,850,000	No
OTB02-5	11/19/1992	5.0	JS12	Chromium	31.8	7440-47-3	NMED SSL	96.6	No
OTB02-5	11/19/1992	5.0	JS12	Cobalt	10.7	7440-48-4	NMED SSL	23.4	No
OTB02-5	11/19/1992	5.0	JS12	Copper	7.18	7440-50-8	NMED SSL	3,130	No
OTB02-5	11/19/1992	5.0	JS12	Iron	32,300	7439-89-6	NMED SSL	54,800	No
OTB02-5	11/19/1992	5.0	JD21	Lead	14.9	7439-92-1	EPA RSL	200	No
OTB02-5	11/19/1992	5.0	JS12	Magnesium	16,100	7439-95-4	NMED SSL	1,550,000	No
OTB02-5	**11/19/1992**	**5.0**	**JS12**	**Manganese**	**503**	**7439-96-5**	**NMED SSL**	**464**	**Yes**
OTB02-5	11/19/1992	5.0	JS12	Nickel	20.3	7440-02-0	NMED SSL	753	No
OTB02-5	11/19/1992	5.0	JS12	Potassium	11,300	7440-09-7	NMED SSL	15,600,000	No
OTB02-5	11/19/1992	5.0	JS12	Sodium	4,490	7440-23-5	NMED SSL	7,820,000	No
OTB02-5	11/19/1992	5.0	JS12	Vanadium	36.6	7440-62-2	NMED SSL	614	No
OTB02-5	11/19/1992	5.0	JS12	Zinc	41.9	7440-66-6	NMED SSL	106,000	No
OTB02-10	**11/19/1992**	**10.0**	**JS12**	**Aluminum**	**56,300**	**7429-90-5**	**NMED SSL**	**41,400**	**Yes**
OTB02-10	11/19/1992	10.0	JS12	Barium	510	7440-39-3	NMED SSL	4,390	No
OTB02-10	11/19/1992	10.0	JS12	Beryllium	1.94	7440-41-7	NMED SSL	148	No
OTB02-10	11/19/1992	10.0	JS12	Calcium	30,600	7440-70-2	NMED SSL	8,850,000	No
OTB02-10	11/19/1992	10.0	JS12	Chromium	32.3	7440-47-3	NMED SSL	96.6	No
OTB02-10	11/19/1992	10.0	JS12	Cobalt	11.4	7440-48-4	NMED SSL	23.4	No
OTB02-10	11/19/1992	10.0	JS12	Copper	8.04	7440-50-8	NMED SSL	3,130	No
OTB02-10	11/19/1992	10.0	JS12	Iron	33,700	7439-89-6	NMED SSL	54,800	No
OTB02-10	11/19/1992	10.0	JD21	Lead	14.7	7439-92-1	EPA RSL	200	No
OTB02-10	11/19/1992	10.0	JS12	Magnesium	16,200	7439-95-4	NMED SSL	1,550,000	No
OTB02-10	11/19/1992	10.0	JS12	Manganese	461	7439-96-5	NMED SSL	464	No
OTB02-10	11/19/1992	10.0	JS12	Nickel	20.5	7440-02-0	NMED SSL	753	No
OTB02-10	11/19/1992	10.0	JS12	Potassium	11,300	7440-09-7	NMED SSL	15,600,000	No
OTB02-10	11/19/1992	10.0	JS12	Sodium	3,450	7440-23-5	NMED SSL	7,820,000	No
OTB02-10	11/19/1992	10.0	JS12	Vanadium	47.9	7440-62-2	NMED SSL	614	No
OTB02-10	11/19/1992	10.0	JS12	Zinc	45.1	7440-66-6	NMED SSL	106,000	No

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Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB03-1	11/24/1992	1.0	JS12	Aluminum	32,500	7429-90-5	NMED SSL	41,400	No
OTB03-1	11/24/1992	1.0	JS12	Barium	302	7440-39-3	NMED SSL	4,390	No
OTB03-1	11/24/1992	1.0	JS12	Beryllium	1.12	7440-41-7	NMED SSL	148	No
OTB03-1	11/24/1992	1.0	JS12	Calcium	35,800	7440-70-2	NMED SSL	8,850,000	No
OTB03-1	11/24/1992	1.0	JS12	Chromium	20.5	7440-47-3	NMED SSL	96.6	No
OTB03-1	11/24/1992	1.0	JS12	Cobalt	8.45	7440-48-4	NMED SSL	23.4	No
OTB03-1	11/24/1992	1.0	JS12	Copper	10	7440-50-8	NMED SSL	3,130	No
OTB03-1	11/24/1992	1.0	JS12	Iron	22,200	7439-89-6	NMED SSL	54,800	No
OTB03-1	11/24/1992	1.0	JD21	Lead	19.6	7439-92-1	EPA RSL	200	No
OTB03-1	11/24/1992	1.0	JS12	Magnesium	10,800	7439-95-4	NMED SSL	1,550,000	No
OTB03-1	11/24/1992	1.0	JS12	Manganese	396	7439-96-5	NMED SSL	464	No
OTB03-1	11/24/1992	1.0	Y9	Mercury	0.0744	7439-97-6	NMED SSL	20.70	No
OTB03-1	11/24/1992	1.0	JS12	Nickel	15.1	7440-02-0	NMED SSL	753	No
OTB03-1	11/24/1992	1.0	JS12	Potassium	6,860	7440-09-7	NMED SSL	15,600,000	No
OTB03-1	11/24/1992	1.0	JS12	Sodium	1,640	7440-23-5	NMED SSL	7,820,000	No
OTB03-1	11/24/1992	1.0	JS12	Vanadium	24.4	7440-62-2	NMED SSL	614	No
OTB03-1	11/24/1992	1.0	JS12	Zinc	92.8	7440-66-6	NMED SSL	106,000	No
OTB03-5	11/24/1992	5.0	JS12	Aluminum	13,900	7429-90-5	NMED SSL	41,400	No
OTB03-5	11/24/1992	5.0	JS12	Barium	562	7440-39-3	NMED SSL	4,390	No
OTB03-5	11/24/1992	5.0	JS12	Calcium	170,000	7440-70-2	NMED SSL	8,850,000	No
OTB03-5	11/24/1992	5.0	JS12	Chromium	15.4	7440-47-3	NMED SSL	96.6	No
OTB03-5	11/24/1992	5.0	JS12	Cobalt	5.93	7440-48-4	NMED SSL	23.4	No
OTB03-5	**11/24/1992**	**5.0**	**JS12**	**Copper**	**4,100**	**7440-50-8**	**NMED SSL**	**3,130**	**Yes**
OTB03-5	11/24/1992	5.0	JS12	Iron	11,200	7439-89-6	NMED SSL	54,800	No
OTB03-5	11/24/1992	5.0	JD21	Lead	70	7439-92-1	EPA RSL	200	No
OTB03-5	11/24/1992	5.0	JS12	Magnesium	11,300	7439-95-4	NMED SSL	1,550,000	No
OTB03-5	11/24/1992	5.0	JS12	Manganese	463	7439-96-5	NMED SSL	464	No
OTB03-5	11/24/1992	5.0	JS12	Nickel	14.7	7440-02-0	NMED SSL	753	No
OTB03-5	11/24/1992	5.0	JS12	Potassium	4,820	7440-09-7	NMED SSL	15,600,000	No
OTB03-5	11/24/1992	5.0	JS12	Sodium	1,810	7440-23-5	NMED SSL	7,820,000	No
OTB03-5	11/24/1992	5.0	JS12	Vanadium	34.1	7440-62-2	NMED SSL	614	No
OTB03-5	11/24/1992	5.0	JS12	Zinc	161	7440-66-6	NMED SSL	106,000	No

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Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB03-5	11/24/1992	5.0	LH17	Endosulfan I	0.0068 (U)	959-98-8	NMED SSL	370.0	No
OTB03-5	11/24/1992	5.0	LH17	Aldrin	0.00193 (U)	309-00-2	NMED SSL	0.3110	No
OTB03-5	11/24/1992	5.0	LH17	2,2-Bis (p-chlorophenyl)-1,1-dichloroethane	0.00436 (C)	72-54-8	NMED SSL	78.6	No
OTB03-5	11/24/1992	5.0	LH17	2,2-Bis (p-chlorophenyl)-1,1-dichloroethene	0.00759 (C)	72-55-9	NMED SSL	78.6	No
OTB03-5	11/24/1992	5.0	LH17	2,2-Bis (p-chlorophenyl)-1,1,1-trichloroethane	0.0126 (C)	50-29-3	NMED SSL	13600.0	No
OTB03-10	11/24/1992	10.0	JS12	Aluminum	27,400	7429-90-5	NMED SSL	41,400	No
OTB03-10	11/24/1992	10.0	JS12	Barium	329	7440-39-3	NMED SSL	4,390	No
OTB03-10	11/24/1992	10.0	JS12	Beryllium	1.14	7440-41-7	NMED SSL	148	No
OTB03-10	11/24/1992	10.0	JS12	Calcium	40,600	7440-70-2	NMED SSL	8,850,000	No
OTB03-10	11/24/1992	10.0	JS12	Chromium	17.1	7440-47-3	NMED SSL	96.6	No
OTB03-10	11/24/1992	10.0	JS12	Cobalt	8.16	7440-48-4	NMED SSL	23.4	No
OTB03-10	11/24/1992	10.0	JS12	Copper	6.02	7440-50-8	NMED SSL	3,130	No
OTB03-10	11/24/1992	10.0	JS12	Iron	19,100	7439-89-6	NMED SSL	54,800	No
OTB03-10	11/24/1992	10.0	JD21	Lead	8.51	7439-92-1	EPA RSL	200	No
OTB03-10	11/24/1992	10.0	JS12	Magnesium	9,910	7439-95-4	NMED SSL	1,550,000	No
OTB03-10	11/24/1992	10.0	JS12	Manganese	407	7439-96-5	NMED SSL	464	No
OTB03-10	11/24/1992	10.0	JS12	Nickel	13.0	7440-02-0	NMED SSL	753	No
OTB03-10	11/24/1992	10.0	JS12	Potassium	4,920	7440-09-7	NMED SSL	15,600,000	No
OTB03-10	11/24/1992	10.0	JS12	Sodium	2,470	7440-23-5	NMED SSL	7,820,000	No
OTB03-10	11/24/1992	10.0	JS12	Vanadium	18.8	7440-62-2	NMED SSL	614	No
OTB03-10	11/24/1992	10.0	JS12	Zinc	24.7	7440-66-6	NMED SSL	106,000	No
OTB04-1	11/24/1992	1.0	JS12	Aluminum	28,000	7429-90-5	NMED SSL	41,400	No
OTB04-1	11/24/1992	1.0	JS12	Barium	313	7440-39-3	NMED SSL	4,390	No
OTB04-1	11/24/1992	1.0	JS12	Beryllium	0.975	7440-41-7	NMED SSL	148	No
OTB04-1	11/24/1992	1.0	JS12	Calcium	48,400	7440-70-2	NMED SSL	8,850,000	No
OTB04-1	11/24/1992	1.0	JS12	Chromium	17.3	7440-47-3	NMED SSL	96.6	No
OTB04-1	11/24/1992	1.0	JS12	Cobalt	8.62	7440-48-4	NMED SSL	23.4	No

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OTB04-1	11/24/1992	1.0	JS12	Copper	6.30	7440-50-8	NMED SSL	3,130	No
OTB04-1	11/24/1992	1.0	JS12	Iron	19,800	7439-89-6	NMED SSL	54,800	No
OTB04-1	11/24/1992	1.0	JD21	Lead	9.62	7439-92-1	EPA RSL	200	No
OTB04-1	11/24/1992	1.0	JS12	Magnesium	10,600	7439-95-4	NMED SSL	1,550,000	No
OTB04-1	11/24/1992	1.0	JS12	Manganese	466	7439-96-5	NMED SSL	464	No
OTB04-1	11/24/1992	1.0	JS12	Nickel	14.0	7440-02-0	NMED SSL	753	No
OTB04-1	11/24/1992	1.0	JS12	Potassium	5,800	7440-09-7	NMED SSL	15,600,000	No
OTB04-1	11/24/1992	1.0	JS12	Sodium	2,460	7440-23-5	NMED SSL	7,820,000	No
OTB04-1	11/24/1992	1.0	JS12	Vanadium	22.3	7440-62-2	NMED SSL	614	No
OTB04-1	11/24/1992	1.0	JS12	Zinc	30.9	7440-66-6	NMED SSL	106,000	No
OTB04-5	11/24/1992	5.0	JS12	Aluminum	40,900	7429-90-5	NMED SSL	41,400	No
OTB04-5	11/24/1992	5.0	JS12	Barium	262	7440-39-3	NMED SSL	4,390	No
OTB04-5	11/24/1992	5.0	JS12	Beryllium	1.31	7440-41-7	NMED SSL	148	No
OTB04-5	11/24/1992	5.0	JS12	Calcium	35,500	7440-70-2	NMED SSL	8,850,000	No
OTB04-5	11/24/1992	5.0	JS12	Chromium	24.3	7440-47-3	NMED SSL	96.6	No
OTB04-5	11/24/1992	5.0	JS12	Cobalt	9.72	7440-48-4	NMED SSL	23.4	No
OTB04-5	11/24/1992	5.0	JS12	Copper	5.80	7440-50-8	NMED SSL	3,130	No
OTB04-5	11/24/1992	5.0	JS12	Iron	26,100	7439-89-6	NMED SSL	54,800	No
OTB04-5	11/24/1992	5.0	JD21	Lead	9.40	7439-92-1	EPA RSL	200	No
OTB04-5	11/24/1992	5.0	JS12	Magnesium	13,400	7439-95-4	NMED SSL	1,550,000	No
OTB04-5	11/24/1992	5.0	JS12	Manganese	453	7439-96-5	NMED SSL	464	No
OTB04-5	11/24/1992	5.0	JS12	Nickel	17.1	7440-02-0	NMED SSL	753	No
OTB04-5	11/24/1992	5.0	JS12	Potassium	7,830	7440-09-7	NMED SSL	15,600,000	No
OTB04-5	11/24/1992	5.0	JS12	Sodium	3820	7440-23-5	NMED SSL	7,820,000	No
OTB04-5	11/24/1992	5.0	JS12	Vanadium	27.0	7440-62-2	NMED SSL	614	No
OTB04-5	11/24/1992	5.0	JS12	Zinc	34.2	7440-66-6	NMED SSL	106,000	No
OTB04-10	11/24/1992	10.0	JS12	Aluminum	33,100	7429-90-5	NMED SSL	41,400	No
OTB04-10	11/24/1992	10.0	JS12	Barium	324	7440-39-3	NMED SSL	4,390	No
OTB04-10	11/24/1992	10.0	JS12	Beryllium	1.11	7440-41-7	NMED SSL	148	No
OTB04-10	11/24/1992	10.0	JS12	Calcium	29,300	7440-70-2	NMED SSL	8,850,000	No
OTB04-10	11/24/1992	10.0	JS12	Chromium	20	7440-47-3	NMED SSL	96.6	No
OTB04-10	11/24/1992	10.0	JS12	Cobalt	9.48	7440-48-4	NMED SSL	23.4	No

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Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB04-10	11/24/1992	10.0	JS12	Copper	6.51	7440-50-8	NMED SSL	3,130	No
OTB04-10	11/24/1992	10.0	JS12	Iron	23,300	7439-89-6	NMED SSL	54,800	No
OTB04-10	11/24/1992	10.0	JD21	Lead	9.50	7439-92-1	EPA RSL	200	No
OTB04-10	11/24/1992	10.0	JS12	Magnesium	11,600	7439-95-4	NMED SSL	1,550,000	No
OTB04-10	11/24/1992	10.0	JS12	Manganese	348	7439-96-5	NMED SSL	464	No
OTB04-10	11/24/1992	10.0	JS12	Nickel	15.4	7440-02-0	NMED SSL	753	No
OTB04-10	11/24/1992	10.0	JS12	Potassium	6,100	7440-09-7	NMED SSL	15,600,000	No
OTB04-10	11/24/1992	10.0	JS12	Sodium	3,190	7440-23-5	NMED SSL	7,820,000	No
OTB04-10	11/24/1992	10.0	JS12	Vanadium	21.5	7440-62-2	NMED SSL	614	No
OTB04-10	11/24/1992	10.0	JS12	Zinc	31.1	7440-66-6	NMED SSL	106,000	No
OTB05-1	11/24/1992	1.0	JS12	Aluminum	30,100	7429-90-5	NMED SSL	41,400	No
OTB05-1	11/24/1992	1.0	JS12	Barium	297	7440-39-3	NMED SSL	4,390	No
OTB05-1	11/24/1992	1.0	JS12	Beryllium	1.04	7440-41-7	NMED SSL	148	No
OTB05-1	11/24/1992	1.0	JS12	Calcium	32,600	7440-70-2	NMED SSL	8,850,000	No
OTB05-1	11/24/1992	1.0	JS12	Chromium	18.2	7440-47-3	NMED SSL	96.6	No
OTB05-1	11/24/1992	1.0	JS12	Cobalt	7.86	7440-48-4	NMED SSL	23.4	No
OTB05-1	11/24/1992	1.0	JS12	Copper	6.59	7440-50-8	NMED SSL	3,130	No
OTB05-1	11/24/1992	1.0	JS12	Iron	20,800	7439-89-6	NMED SSL	54,800	No
OTB05-1	11/24/1992	1.0	JD21	Lead	11.2	7439-92-1	EPA RSL	200	No
OTB05-1	11/24/1992	1.0	JS12	Magnesium	10,200	7439-95-4	NMED SSL	1,550,000	No
OTB05-1	11/24/1992	1.0	JS12	Manganese	426	7439-96-5	NMED SSL	464	No
OTB05-1	11/24/1992	1.0	JS12	Nickel	13.8	7440-02-0	NMED SSL	753	No
OTB05-1	11/24/1992	1.0	JS12	Potassium	6,350	7440-09-7	NMED SSL	15,600,000	No
OTB05-1	11/24/1992	1.0	JS12	Sodium	692	7440-23-5	NMED SSL	7,820,000	No
OTB05-1	11/24/1992	1.0	JS12	Vanadium	21.2	7440-62-2	NMED SSL	614	No
OTB05-1	11/24/1992	1.0	JS12	Zinc	33.9	7440-66-6	NMED SSL	106,000	No
OTB05-5	11/24/1992	5.0	JS12	Aluminum	28,000	7429-90-5	NMED SSL	41,400	No
OTB05-5	11/24/1992	5.0	JS12	Barium	375	7440-39-3	NMED SSL	4,390	No
OTB05-5	11/24/1992	5.0	JS12	Beryllium	1.02	7440-41-7	NMED SSL	148	No
OTB05-5	11/24/1992	5.0	JS12	Calcium	38,900	7440-70-2	NMED SSL	8,850,000	No
OTB05-5	11/24/1992	5.0	JS12	Chromium	17.2	7440-47-3	NMED SSL	96.6	No
OTB05-5	11/24/1992	5.0	JS12	Cobalt	7.86	7440-48-4	NMED SSL	23.4	No

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTB05-5	11/24/1992	5.0	JS12	Copper	5.19	7440-50-8	NMED SSL	3,130	No
OTB05-5	11/24/1992	5.0	JS12	Iron	20,000	7439-89-6	NMED SSL	54,800	No
OTB05-5	11/24/1992	5.0	JD21	Lead	8.52	7439-92-1	EPA RSL	200	No
OTB05-5	11/24/1992	5.0	JS12	Magnesium	10,500	7439-95-4	NMED SSL	1,550,000	No
OTB05-5	11/24/1992	5.0	JS12	Manganese	460	7439-96-5	NMED SSL	464	No
OTB05-5	11/24/1992	5.0	JS12	Nickel	13.3	7440-02-0	NMED SSL	753	No
OTB05-5	11/24/1992	5.0	JS12	Potassium	5,060	7440-09-7	NMED SSL	15,600,000	No
OTB05-5	11/24/1992	5.0	JS12	Sodium	1540	7440-23-5	NMED SSL	7,820,000	No
OTB05-5	11/24/1992	5.0	JS12	Vanadium	20.1	7440-62-2	NMED SSL	614	No
OTB05-5	11/24/1992	5.0	JS12	Zinc	26.5	7440-66-6	NMED SSL	106,000	No
OTB05-10	11/24/1992	10.0	JS12	Aluminum	23,600	7429-90-5	NMED SSL	41,400	No
OTB05-10	11/24/1992	10.0	JS12	Barium	348	7440-39-3	NMED SSL	4,390	No
OTB05-10	11/24/1992	10.0	JS12	Beryllium	0.936	7440-41-7	NMED SSL	148	No
OTB05-10	11/24/1992	10.0	JS12	Calcium	28,300	7440-70-2	NMED SSL	8,850,000	No
OTB05-10	11/24/1992	10.0	JS12	Chromium	14.1	7440-47-3	NMED SSL	96.6	No
OTB05-10	11/24/1992	10.0	JS12	Cobalt	7.81	7440-48-4	NMED SSL	23.4	No
OTB05-10	11/24/1992	10.0	JS12	Copper	7.76	7440-50-8	NMED SSL	3,130	No
OTB05-10	11/24/1992	10.0	JS12	Iron	18,900	7439-89-6	NMED SSL	54,800	No
OTB05-10	11/24/1992	10.0	JD21	Lead	9.53	7439-92-1	EPA RSL	200	No
OTB05-10	11/24/1992	10.0	JS12	Magnesium	7,730	7439-95-4	NMED SSL	1,550,000	No
OTB05-10	11/24/1992	10.0	JS12	Manganese	434	7439-96-5	NMED SSL	464	No
OTB05-10	11/24/1992	10.0	JS12	Nickel	13.0	7440-02-0	NMED SSL	753	No
OTB05-10	11/24/1992	10.0	JS12	Potassium	4,290	7440-09-7	NMED SSL	15,600,000	No
OTB05-10	11/24/1992	10.0	JS12	Sodium	2120	7440-23-5	NMED SSL	7,820,000	No
OTB05-10	11/24/1992	10.0	JS12	Vanadium	17.9	7440-62-2	NMED SSL	614	No
OTB05-10	11/24/1992	10.0	JS12	Zinc	36.6	7440-66-6	NMED SSL	106,000	No
OTBS001	11/19/1992	--	JS12	Aluminum	2,430	7429-90-5	NMED SSL	41,400	No
OTBS001	11/19/1992	--	JS12	Barium	113	7440-39-3	NMED SSL	4,390	No
OTBS001	11/19/1992	--	JS12	Beryllium	1.13	7440-41-7	NMED SSL	148	No
OTBS001	11/19/1992	--	JS12	Calcium	5,040	7440-70-2	NMED SSL	8,850,000	No
OTBS001	11/19/1992	--	JS12	Chromium	5.25 (J)	7440-47-3	NMED SSL	96.6	No
OTBS001	11/19/1992	--	JS12	Cobalt	4.05	7440-48-4	NMED SSL	23.4	No

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTBS001	11/19/1992	--	JS12	Copper	9.24	7440-50-8	NMED SSL	3,130	No
OTBS001	11/19/1992	--	JS12	Iron	4,720	7439-89-6	NMED SSL	54,800	No
OTBS001	11/19/1992	--	JD21	Lead	4.84 (I)	7439-92-1	EPA RSL	200	No
OTBS001	11/19/1992	--	JS12	Magnesium	975	7439-95-4	NMED SSL	1,550,000	No
OTBS001	11/19/1992	--	JS12	Manganese	72.4	7439-96-5	NMED SSL	464	No
OTBS001	11/19/1992	--	JS12	Potassium	352	7440-09-7	NMED SSL	15,600,000	No
OTBS001	11/19/1992	--	JD20	Selenium	0.992	7782-49-2	NMED SSL	391	No
OTBS001	11/19/1992	--	JS12	Sodium	474	7440-23-5	NMED SSL	7,820,000	No
OTBS001	11/19/1992	--	JS12	Vanadium	14.8 (I)	7440-62-2	NMED SSL	614	No
OTBS001	11/19/1992	--	JS12	Zinc	8.91	7440-66-6	NMED SSL	106,000	No
OTBS001	11/19/1992	--	LH17	Endosulfan II	0.00143 (U)	33213-65-9	NMED SSL	370	No
OTBS001	11/19/1992	--	LH17	Dieldrin	0.00631 (C)	60-57-1	NMED SSL	0.333	No
OTBS001	11/19/1992	--	LM20	180NAP	5.3 (R,K)		-	-	No
OTBS001	11/19/1992	--	LM20	2,3-Dimethylnaphthalene	4.2 (R,K)		-	-	No
OTBS002	11/19/1992	--	JS12	Aluminum	3,350	7429-90-5	NMED SSL	41,400	No
OTBS002	11/19/1992	--	JS12	Barium	184	7440-39-3	NMED SSL	4,390	No
OTBS002	11/19/1992	--	JS12	Beryllium	1.29	7440-41-7	NMED SSL	148	No
OTBS002	11/19/1992	--	JS12	Calcium	14,500	7440-70-2	NMED SSL	8,850,000	No
OTBS002	11/19/1992	--	JS12	Chromium	6.26 (J)	7440-47-3	NMED SSL	96.6	No
OTBS002	11/19/1992	--	JS12	Cobalt	3.03	7440-48-4	NMED SSL	23.4	No
OTBS002	11/19/1992	--	JS12	Copper	12.9	7440-50-8	NMED SSL	3,130	No
OTBS002	11/19/1992	--	JS12	Iron	4,360	7439-89-6	NMED SSL	54,800	No
OTBS002	11/19/1992	--	JD21	Lead	6.15 (I)	7439-92-1	EPA RSL	200	No
OTBS002	11/19/1992	--	JS12	Magnesium	1,570	7439-95-4	NMED SSL	1,550,000	No
OTBS002	11/19/1992	--	JS12	Manganese	113	7439-96-5	NMED SSL	464	No
OTBS002	11/19/1992	--	JS12	Nickel	4.29	7440-02-0	NMED SSL	753	No
OTBS002	11/19/1992	--	JS12	Potassium	492	7440-09-7	NMED SSL	15,600,000	No
OTBS002	11/19/1992	--	JD20	Selenium	0.644	7782-49-2	NMED SSL	391	No
OTBS002	11/19/1992	--	JS12	Sodium	368	7440-23-5	NMED SSL	7,820,000	No
OTBS002	11/19/1992	--	JS12	Vanadium	17.6 (I)	7440-62-2	NMED SSL	614	No
OTBS002	11/19/1992	--	JS12	Zinc	6.22	7440-66-6	NMED SSL	106,000	No

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Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTBS002	11/19/1992	--	LH17	Endosulfan II	0.00139 (U)	33213-65-9	NMED SSL	370	No
OTBS002	11/19/1992	--	LH17	Dieldrin	0.00723 (C)	60-57-1	NMED SSL	0.333	No
OTBS002	11/19/1992	--	LM20	1,5-Dimethylnaphthalene	2.7 (R,K)	571-61-9	-	-	No
OTBS002	11/19/1992	--	LM20	2,3-Dimethylnaphthalene	2.7 (R,K)		-	-	No
OTBS003	11/19/1992	--	JS12	Aluminum	28,500	7429-90-5	NMED SSL	41,400	No
OTBS003	11/19/1992	--	JS12	Barium	310	7440-39-3	NMED SSL	4,390	No
OTBS003	11/19/1992	--	JS12	Beryllium	1.13	7440-41-7	NMED SSL	148	No
OTBS003	11/19/1992	--	JS12	Calcium	36,700	7440-70-2	NMED SSL	8,850,000	No
OTBS003	11/19/1992	--	JS12	Chromium	18 (J)	7440-47-3	NMED SSL	96.6	No
OTBS003	11/19/1992	--	JS12	Cobalt	8.43	7440-48-4	NMED SSL	23.4	No
OTBS003	11/19/1992	--	JS12	Copper	10	7440-50-8	NMED SSL	3,130	No
OTBS003	11/19/1992	--	JS12	Iron	21,600	7439-89-6	NMED SSL	54,800	No
OTBS003	11/19/1992	--	JD21	Lead	20 (I)	7439-92-1	EPA RSL	200	No
OTBS003	11/19/1992	--	JS12	Magnesium	10,700	7439-95-4	NMED SSL	1,550,000	No
OTBS003	11/19/1992	--	JS12	Manganese	484	7439-96-5	NMED SSL	464	No
OTBS003	11/19/1992	--	JS12	Nickel	14.6	7440-02-0	NMED SSL	753	No
OTBS003	11/19/1992	--	JS12	Potassium	7,710	7440-09-7	NMED SSL	15,600,000	No
OTBS003	11/19/1992	--	JS12	Sodium	516	7440-23-5	NMED SSL	7,820,000	No
OTBS003	11/19/1992	--	JS12	Vanadium	23.7 (I)	7440-62-2	NMED SSL	614	No
OTBS003	11/19/1992	--	JS12	Zinc	48.1	7440-66-6	NMED SSL	106,000	No
OTBS003	11/19/1992	--	LH17	Endosulfan II	0.00262 (U)	33213-65-9	NMED SSL	370	No
OTBS003	11/19/1992	--	LH17	Dieldrin	0.00723 (C)	60-57-1	NMED SSL	0.333	No
OTBS003	11/19/1992	--	LH17	2,2-Bis (p-chlorophenyl)-1,1,1-trichloroethane	0.00606 (C)	50-29-3	NMED SSL	13600	No
OTBS004	11/19/1992	--	JS12	Aluminum	22,800	7429-90-5	NMED SSL	41,400	No
OTBS004	11/19/1992	--	JS12	Barium	209	7440-39-3	NMED SSL	4,390	No
OTBS004	11/19/1992	--	JS12	Beryllium	0.853	7440-41-7	NMED SSL	148	No
OTBS004	11/19/1992	--	JS12	Calcium	23,400	7440-70-2	NMED SSL	8,850,000	No
OTBS004	11/19/1992	--	JS12	Chromium	14.4 (J)	7440-47-3	NMED SSL	96.6	No
OTBS004	11/19/1992	--	JS12	Cobalt	5.35	7440-48-4	NMED SSL	23.4	No

Table B.4-1
Summary of Detectable Concentrations for Historical Soil Sample Analyses at SWMU 25, Trash Burning Ground Property Disposal Office

Sample ID	Collection Date	Depth (feet bgs)	Analytical Method	Analyte	Result (mg/kg)	Screen CAS	Source	Lowest Human Health Screening Level Direct Contact* (mg/kg)	Exceed Screening Level?
OTBS004	11/19/1992	--	JS12	Copper	5.84	7440-50-8	NMED SSL	3,130	No
OTBS004	11/19/1992	--	JS12	Iron	15,000	7439-89-6	NMED SSL	54,800	No
OTBS004	11/19/1992	--	JD21	Lead	20 (I)	7439-92-1	EPA RSL	200	No
OTBS004	11/19/1992	--	JS12	Magnesium	7,470	7439-95-4	NMED SSL	1,550,000	No
OTBS004	11/19/1992	--	JS12	Manganese	291	7439-96-5	NMED SSL	464	No
OTBS004	11/19/1992	--	JS12	Nickel	8.77	7440-02-0	NMED SSL	753	No
OTBS004	11/19/1992	--	JS12	Potassium	8,140	7440-09-7	NMED SSL	15,600,000	No
OTBS004	11/19/1992	--	JS12	Sodium	662	7440-23-5	NMED SSL	7,820,000	No
OTBS004	11/19/1992	--	JS12	Vanadium	19.7 (I)	7440-62-2	NMED SSL	614	No
OTBS004	11/19/1992	--	JS12	Zinc	50.4	7440-66-6	NMED SSL	106,000	No
OTBS004	11/19/1992	--	LH17	Dieldrin	0.00358 (U)	60-57-1	NMED SSL	0.333	No

Notes:

CAS - Chemical Abstract Services
feet bgs - feet below ground surface
mg/kg - milligrams per kilogram
ND - non-detection
NS - no standard

C - Analysis was confirmed
I - Interferences in sample make quantitation and/or identification suspect.
J - Value is estimated
K - Reported results are affected by interferences or high background
R - Non-certified compound analyzed for but not detected (non-GC/MS)
U - Analysis is unconfirmed

*The lowest of the 2022 NMED screening levels for residents, industrial/occupational workers, and construction workers (or May 2024 EPA RSL, HQ=1 and adjusted target excess cancer risk level of 1 x 10^{-5}, if there is no NMED screening level).

Table B.4-2
SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS001-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.47	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS001-0.0-0.5DSO	8/27/2014	8260B	75-09-2	Methylene Chloride	0.093	0.12	mg/kg	J	J	NMED SSL	409	no
0725F1SS001-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.46	0.36	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	8260B	67-64-1	Acetone	0.44	0.34	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS002-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.31	0.25	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS002-0.0-0.5DSO	8/27/2014	8260B	75-09-2	Methylene Chloride	0.057	0.1	mg/kg	J	J	NMED SSL	409	no
0725F1SS002-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.37	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS003-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.46	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS003-0.0-0.5DSO	8/27/2014	8260B	75-09-2	Methylene Chloride	0.063	0.12	mg/kg	J	J	NMED SSL	409	no
0725F1SS003-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.42	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS003-0.5-1.0DSO	8/27/2014	8260B	75-09-2	Methylene Chloride	0.058	0.1	mg/kg	J	J	NMED SSL	409	no
0725F1SS004-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.42	0.25	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS004-0.0-0.5DSO	8/27/2014	8260B	75-09-2	Methylene Chloride	0.055	0.1	mg/kg	J	J	NMED SSL	409	no
0725F1SS004-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.34	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS005-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.43	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS005-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.33	0.33	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS006-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.29	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS006-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.29	0.25	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS007-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.48	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	8260B	67-64-1	Acetone	0.39	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS007-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.51	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS008-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.43	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS008-0.0-0.5DSO	8/27/2014	8260B	75-27-4	Bromodichloromethane	0.13	0.061	mg/kg	J	J	NMED SSL	6.19	no
0725F1SS008-0.0-0.5DSO	8/27/2014	8260B	124-48-1	Dibromochloromethane	0.11	0.061	mg/kg	J	J	NMED SSL	13.9	no

Table B.4-2
SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS008-0.0-0.5DSO	8/27/2014	8260B	108-88-3	Toluene	0.04	0.061	mg/kg	J	J	NMED SSL	5,230	no
0725F1SS008-0.0-0.5DSO	8/27/2014	8260B	156-60-5	Trans-1,2-Dichloroethene	0.031	0.061	mg/kg	J	J	NMED SSL	206	no
0725F1SS008-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.44	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS009-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.45	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS009-0.0-0.5DSO	8/27/2014	8260B	75-27-4	Bromodichloromethane	0.12	0.064	mg/kg	J	J	NMED SSL	6.19	no
0725F1SS009-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.45	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS010-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.45	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS010-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.49	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS011-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.35	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS011-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.3	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	8260B	67-64-1	Acetone	0.3	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS012-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.31	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS012-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.41	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS013-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.23	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS013-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.4	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS014-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.35	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS014-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.58	0.29	mg/kg			NMED SSL	66,300	no
0725F1SS015-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.26	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS015-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.63	0.37	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS016-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.51	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS016-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.39	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS017-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.37	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	8260B	67-64-1	Acetone	0.26	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS017-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.25	0.28	mg/kg	J	J	NMED SSL	66,300	no

Table B.4-2
SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS018-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.36	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS018-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.51	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS019-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.56	0.34	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS019-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.64	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS020-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.37	0.33	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS020-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.55	0.43	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS021-0.0-0.5DSO	8/27/2014	8260B	67-64-1	Acetone	0.32	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS021-0.5-1.0DSO	8/27/2014	8260B	67-64-1	Acetone	0.28	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F1SS025-0.0-0.5DSO	8/28/2014	8260B	75-09-2	Methylene Chloride	0.076	0.13	mg/kg	J	J	NMED SSL	409	no
0725F1SS033-0.5-1.0DSO	8/28/2014	8260B	108-88-3	Toluene	0.043	0.063	mg/kg	J	J	NMED SSL	5,230	no
0725F2SS001-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.24	0.24	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS001-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.24	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS002-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.29	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8260B	67-64-1	Acetone	0.23	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS002-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.2	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS003-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.29	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS003-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.23	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.19	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.24	0.25	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS005-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.22	0.25	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS005-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.23	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS006-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.45	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS006-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.26	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS007-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.25	0.3	mg/kg	J	J	NMED SSL	66,300	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8260B	67-64-1	Acetone	0.27	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS007-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.32	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.27	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.24	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS009-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.22	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS009-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.22	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS010-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.39	0.33	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS010-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.27	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.47	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS011-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.87	0.29	mg/kg			NMED SSL	66,300	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8260B	67-64-1	Acetone	0.43	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.43	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.33	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS013-0.0-0.5DSO	8/15/2014	8260B	67-64-1	Acetone	0.32	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS013-0.5-1.0DSO	8/15/2014	8260B	67-64-1	Acetone	0.53	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.22	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS014-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.21	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.25	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.26	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS016-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.26	0.34	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS016-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.45	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.49	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8260B	67-64-1	Acetone	0.29	0.33	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS017-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.43	0.3	mg/kg	J	J	NMED SSL	66,300	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS018-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.25	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.28	0.33	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS019-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.28	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS020-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.26	0.26	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8260B	67-64-1	Acetone	0.35	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS020-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.23	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS021-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.28	0.34	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS021-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.24	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS022-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.42	0.32	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS022-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.27	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8260B	67-64-1	Acetone	0.33	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8260B	67-64-1	Acetone	0.24	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.11	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS001-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.14	0.13	mg/kg	J	J	NMED SSL	409	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.1	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.037	0.054	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.11	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	1.6	0.25	mg/kg		J	EPA RSL	300	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.5	0.25	mg/kg	J	J	EPA RSL	270	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	2.7	0.61	mg/kg		J	NMED SSL	37,400	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.64	0.12	mg/kg			NMED SSL	2,360	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	67-64-1	Acetone	4.7	0.61	mg/kg		J	NMED SSL	66,300	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	71-43-2	Benzene	0.4	0.12	mg/kg	J	J	NMED SSL	17.8	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	100-41-4	Ethylbenzene	0.27	0.12	mg/kg	J	J	NMED SSL	75.1	no

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0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	98-82-8	Isopropylbenzene	0.17	0.25	mg/kg	J	J	NMED SSL	2,360	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	2.3	0.25	mg/kg		J	EPA RSL	798	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.21	0.25	mg/kg	J	J	NMED SSL	409	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	2.6	0.25	mg/kg		J	NMED SSL	22.6	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	104-51-8	n-Butylbenzene	0.14	0.12	mg/kg	J	J	EPA RSL	3,900	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	103-65-1	n-Propylbenzene	0.18	0.12	mg/kg	J	J	EPA RSL	3,800	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	1.6	0.12	mg/kg		J	NMED SSL	736	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	135-98-8	Sec-Butylbenzene	0.11	0.12	mg/kg	J	J	EPA RSL	7,800	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	2	0.12	mg/kg		J	NMED SSL	5,230	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	2.6	0.29	mg/kg		J	EPA RSL	300	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.8	0.29	mg/kg			EPA RSL	270	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	4.1	0.73	mg/kg		J	NMED SSL	37,400	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	591-78-6	2-Hexanone	0.6	0.73	mg/kg	J	J	EPA RSL	200	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.89	0.15	mg/kg			NMED SSL	2,360	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	108-10-1	4-Methyl-2-Pentanone (MIBK)	0.47	0.73	mg/kg	J	J	NMED SSL	5,810	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	67-64-1	Acetone	8.3	0.73	mg/kg		J	NMED SSL	66,300	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	71-43-2	Benzene	1.4	0.15	mg/kg		J	NMED SSL	17.8	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	100-41-4	Ethylbenzene	0.51	0.15	mg/kg	J	J	NMED SSL	75.1	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	98-82-8	Isopropylbenzene	0.26	0.29	mg/kg	J	J	NMED SSL	2,360	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	136777-61-2	m,p-Xylenes	4.9	0.29	mg/kg		J	EPA RSL	798	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	75-09-2	Methylene Chloride	0.28	0.29	mg/kg	J	J	NMED SSL	409	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	91-20-3	Naphthalene	5.2	0.29	mg/kg		J	NMED SSL	22.6	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	104-51-8	n-Butylbenzene	0.24	0.15	mg/kg	J	J	EPA RSL	3,900	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	103-65-1	n-Propylbenzene	0.32	0.15	mg/kg	J	J	EPA RSL	3,800	no

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0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	95-47-6	o-Xylene	3.4	0.15	mg/kg		J	NMED SSL	736	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	135-98-8	Sec-Butylbenzene	0.15	0.15	mg/kg	J	J	EPA RSL	7,800	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8260B	108-88-3	Toluene	4.7	0.15	mg/kg		J	NMED SSL	5,230	no
0725F5SS003-0.5-1.0DSOA	8/28/2014	8260B	67-64-1	Acetone	0.36	0.3	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.048	0.11	mg/kg	J	J	EPA RSL	300	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.09	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.038	0.057	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.041	0.12	mg/kg	J	J	EPA RSL	300	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.083	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.041	0.12	mg/kg	J	J	EPA RSL	300	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.078	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.079	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.098	0.1	mg/kg	J	J	NMED SSL	409	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.068	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS007-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.073	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS007-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.061	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.034	0.11	mg/kg	J	J	EPA RSL	300	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.034	0.053	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.054	0.12	mg/kg	J	J	EPA RSL	300	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.062	0.12	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.032	0.062	mg/kg	J	J	NMED SSL	736	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8260B	108-88-3	Toluene	0.073	0.062	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.069	0.16	mg/kg	J	J	EPA RSL	300	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8260B	99-87-6	4-Isopropyltoluene	0.058	0.079	mg/kg	J	J	NMED SSL	2,360	no

Table B.4-2
SWMU 25 - Trash Burning Ground Property Disposal Office - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS015-0.0-0.5DSO	8/25/2014	8260B	91-20-3	Naphthalene	0.079	0.16	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.1	0.16	mg/kg	J	J	EPA RSL	300	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	99-87-6	4-Isopropyltoluene	0.11	0.079	mg/kg	J	J	NMED SSL	2,360	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	136777-61-2	m,p-Xylenes	0.13	0.16	mg/kg	J	J	EPA RSL	798	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	91-20-3	Naphthalene	0.19	0.16	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	95-47-6	o-Xylene	0.085	0.079	mg/kg	J	J	NMED SSL	736	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8260B	108-88-3	Toluene	0.11	0.079	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.58	0.31	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.17	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8260B	108-88-3	Toluene	0.068	0.075	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS022-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.44	0.28	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS022-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.14	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS022-0.5-1.0DSO	8/25/2014	8260B	67-64-1	Acetone	0.37	0.27	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS022-0.5-1.0DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.12	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS023-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.46	0.29	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS023-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.15	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8260B	67-64-1	Acetone	0.93	0.35	mg/kg			NMED SSL	66,300	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8260B	75-09-2	Methylene Chloride	0.19	0.14	mg/kg	J	J	NMED SSL	409	no
0725F5SS023-0.5-1.0DSO	8/25/2014	8260B	67-64-1	Acetone	0.92	0.3	mg/kg			NMED SSL	66,300	no
0725F5SS023-0.5-1.0DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.18	0.12	mg/kg	J	J	NMED SSL	409	no
0725F5SS023-0.5-1.0DSO	8/25/2014	8260B	108-88-3	Toluene	0.042	0.059	mg/kg	J	J	NMED SSL	5,230	no
0725F5SS024-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.73	0.27	mg/kg			NMED SSL	66,300	no
0725F5SS024-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.15	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS024-0.5-1.0DSO	8/25/2014	8260B	67-64-1	Acetone	0.37	0.27	mg/kg	J	J	NMED SSL	66,300	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS024-0.5-1.0DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.17	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS025-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.43	0.23	mg/kg	J	J	NMED SSL	66,300	no
0725F5SS025-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.11	0.09	mg/kg	J	J	NMED SSL	409	no
0725F5SS025-0.5-1.0DSO	8/25/2014	8260B	67-64-1	Acetone	0.57	0.25	mg/kg			NMED SSL	66,300	no
0725F5SS025-0.5-1.0DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.14	0.099	mg/kg	J	J	NMED SSL	409	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8260B	67-64-1	Acetone	0.55	0.28	mg/kg			NMED SSL	66,300	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.16	0.11	mg/kg	J	J	NMED SSL	409	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8260B	67-64-1	Acetone	0.94	0.29	mg/kg			NMED SSL	66,300	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8260B	75-09-2	Methylene Chloride	0.17	0.12	mg/kg	J	J	NMED SSL	409	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.093	0.1	mg/kg	J	J	NMED SSL	409	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.059	0.12	mg/kg	J	J	EPA RSL	300	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.12	0.12	mg/kg	J	J	EPA RSL	798	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.08	0.12	mg/kg	J	J	NMED SSL	409	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.15	0.12	mg/kg	J	J	NMED SSL	22.6	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.081	0.062	mg/kg	J	J	NMED SSL	736	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8260B	108-88-3	Toluene	0.095	0.062	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.061	0.12	mg/kg	J	J	EPA RSL	798	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8260B	75-09-2	Methylene Chloride	0.1	0.12	mg/kg	J	J	NMED SSL	409	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8260B	91-20-3	Naphthalene	0.095	0.12	mg/kg	J	J	NMED SSL	22.6	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8260B	95-47-6	o-Xylene	0.041	0.058	mg/kg	J	J	NMED SSL	736	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8260B	108-88-3	Toluene	0.058	0.058	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	1.2	0.18	mg/kg			EPA RSL	300	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.37	0.18	mg/kg	J	J	EPA RSL	270	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	2.4	0.45	mg/kg			NMED SSL	37,400	no

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0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.15	0.089	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	67-64-1	Acetone	6.1	0.45	mg/kg			NMED SSL	66,300	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	71-43-2	Benzene	0.35	0.089	mg/kg	J	J	NMED SSL	17.8	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	100-41-4	Ethylbenzene	0.17	0.089	mg/kg	J	J	NMED SSL	75.1	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	98-82-8	Isopropylbenzene	0.11	0.18	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	2.5	0.18	mg/kg			EPA RSL	798	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	75-09-2	Methylene Chloride	0.14	0.18	mg/kg	J	J	NMED SSL	409	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	3.3	0.18	mg/kg			NMED SSL	22.6	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	104-51-8	n-Butylbenzene	0.098	0.089	mg/kg	J	J	EPA RSL	3,900	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	103-65-1	n-Propylbenzene	0.13	0.089	mg/kg	J	J	EPA RSL	3,800	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	1.8	0.089	mg/kg			NMED SSL	736	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	1.7	0.089	mg/kg			NMED SSL	5,230	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.41	0.15	mg/kg			EPA RSL	300	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.12	0.15	mg/kg	J	J	EPA RSL	270	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	0.58	0.38	mg/kg	J	J	NMED SSL	37,400	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.072	0.075	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	71-43-2	Benzene	0.12	0.075	mg/kg	J	J	NMED SSL	17.8	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	100-41-4	Ethylbenzene	0.078	0.075	mg/kg	J	J	NMED SSL	75.1	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.72	0.15	mg/kg	J	J	EPA RSL	798	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.88	0.15	mg/kg		J	NMED SSL	22.6	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.48	0.075	mg/kg			NMED SSL	736	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8260B	108-88-3	Toluene	0.56	0.075	mg/kg			NMED SSL	5,230	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.88	0.15	mg/kg			EPA RSL	300	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.25	0.15	mg/kg	J	J	EPA RSL	270	no

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0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	0.85	0.36	mg/kg			NMED SSL	37,400	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.16	0.073	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	67-64-1	Acetone	2.7	0.36	mg/kg			NMED SSL	66,300	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	71-43-2	Benzene	0.69	0.073	mg/kg			NMED SSL	17.8	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	100-41-4	Ethylbenzene	0.18	0.073	mg/kg	J	J	NMED SSL	75.1	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	98-82-8	Isopropylbenzene	0.08	0.15	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	2.2	0.15	mg/kg			EPA RSL	798	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	2.2	0.15	mg/kg		J	NMED SSL	22.6	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	104-51-8	n-Butylbenzene	0.071	0.073	mg/kg	J	J	EPA RSL	3,900	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	103-65-1	n-Propylbenzene	0.11	0.073	mg/kg	J	J	EPA RSL	3,800	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	1.3	0.073	mg/kg			NMED SSL	736	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	2.4	0.073	mg/kg			NMED SSL	5,230	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.12	0.13	mg/kg	J	J	EPA RSL	300	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	71-43-2	Benzene	0.035	0.063	mg/kg	J	J	NMED SSL	17.8	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.21	0.13	mg/kg	J	J	EPA RSL	798	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.63	0.13	mg/kg		J	NMED SSL	22.6	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.13	0.063	mg/kg	J	J	NMED SSL	736	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8260B	108-88-3	Toluene	0.19	0.063	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.086	0.11	mg/kg	J	J	EPA RSL	300	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	0.25	0.28	mg/kg	J	J	NMED SSL	37,400	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	71-43-2	Benzene	0.074	0.056	mg/kg	J	J	NMED SSL	17.8	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.23	0.11	mg/kg	J	J	EPA RSL	798	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.3	0.11	mg/kg		J	NMED SSL	22.6	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.14	0.056	mg/kg	J	J	NMED SSL	736	no

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0725PDOSS004-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.26	0.056	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.054	0.092	mg/kg	J	J	NMED SSL	22.6	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8260B	108-88-3	Toluene	0.033	0.046	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.072	0.1	mg/kg	J	J	EPA RSL	300	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.13	0.1	mg/kg	J	J	EPA RSL	798	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	0.21	0.1	mg/kg	J	J	NMED SSL	22.6	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.093	0.052	mg/kg	J	J	NMED SSL	736	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.12	0.052	mg/kg	J	J	NMED SSL	5,230	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	95-63-6	1,2,4-Trimethylbenzene	0.42	0.14	mg/kg			EPA RSL	300	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	108-67-8	1,3,5-Trimethylbenzene	0.12	0.14	mg/kg	J	J	EPA RSL	270	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	78-93-3	2-Butanone (MEK)	0.42	0.36	mg/kg	J	J	NMED SSL	37,400	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	99-87-6	4-Isopropyltoluene	0.064	0.072	mg/kg	J	J	NMED SSL	2,360	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	71-43-2	Benzene	0.17	0.072	mg/kg	J	J	NMED SSL	17.8	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	100-41-4	Ethylbenzene	0.084	0.072	mg/kg	J	J	NMED SSL	75.1	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	136777-61-2	m,p-Xylenes	0.86	0.14	mg/kg			EPA RSL	798	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	91-20-3	Naphthalene	1.2	0.14	mg/kg		J	NMED SSL	22.6	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	103-65-1	n-Propylbenzene	0.052	0.072	mg/kg	J	J	EPA RSL	3,800	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	95-47-6	o-Xylene	0.53	0.072	mg/kg			NMED SSL	736	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8260B	108-88-3	Toluene	0.78	0.072	mg/kg			NMED SSL	5,230	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS008-0.0-0.5DSO	8/27/2014	8270C SIM	206-44-0	Fluoranthene	0.0015	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0018	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0725F1SS020-0.5-1.0DSO	8/27/2014	8270C	108-95-2	Phenol	0.45	0.18	mg/kg			NMED SSL	18,500	no
0725F1SS021-0.0-0.5DSO	8/27/2014	8270C	108-95-2	Phenol	0.25	0.18	mg/kg	J	J	NMED SSL	18,500	no
0725F2SS001-0.5-1.0DSO	8/15/2014	8270C	117-81-7	Bis(2-Ethylhexyl)Phthalate	0.35	0.21	mg/kg	J	J	NMED SSL	380	no
0725F2SS001-0.5-1.0DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0078	0.0032	mg/kg			NMED SSL	153	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0024	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0057	0.0028	mg/kg			NMED SSL	1.12	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0084	0.0028	mg/kg			NMED SSL	1.53	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0031	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0024	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0036	0.0028	mg/kg	J	J	NMED SSL	153	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0032	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0023	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0028	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0040	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0023	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0022	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	208-96-8	Acenaphthylene	0.0020	0.0034	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0082	0.0034	mg/kg			NMED SSL	1.53	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0088	0.0034	mg/kg			NMED SSL	1.12	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.013	0.0034	mg/kg			NMED SSL	1.53	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0070	0.0034	mg/kg			NMED SSL	1,740	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0045	0.0034	mg/kg	J	J	NMED SSL	15.3	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0067	0.0034	mg/kg	J	J	NMED SSL	153	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	206-44-0	Fluoranthene	0.011	0.0034	mg/kg			NMED SSL	2,320	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0058	0.0034	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0099	0.0034	mg/kg			NMED SSL	1,740	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0026	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0025	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0039	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0021	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0020	0.0033	mg/kg	J	J	NMED SSL	153	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	206-44-0	Fluoranthene	0.0034	0.0033	mg/kg	J	J	NMED SSL	2,320	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0030	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0059	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0052	0.0031	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0076	0.0031	mg/kg			NMED SSL	1.53	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0037	0.0031	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0023	0.0031	mg/kg	J	J	NMED SSL	15.3	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0047	0.0031	mg/kg	J	J	NMED SSL	153	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	206-44-0	Fluoranthene	0.011	0.0031	mg/kg			NMED SSL	2,320	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0030	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	85-01-8	Phenanthrene	0.0078	0.0031	mg/kg			NMED SSL	1,850	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0099	0.0031	mg/kg			NMED SSL	1,740	no
0725F2SS011-0.5-1.0DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0021	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS011-0.5-1.0DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0030	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS011-0.5-1.0DSO	8/15/2014	8270C SIM	206-44-0	Fluoranthene	0.0020	0.0033	mg/kg	J	J	NMED SSL	2,320	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS011-0.5-1.0DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0020	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0018	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0044	0.0030	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0059	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0045	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0020	0.0030	mg/kg	J	J	NMED SSL	15.3	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0024	0.0030	mg/kg	J	J	NMED SSL	153	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0041	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0017	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0035	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0053	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0035	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	218-01-9	Chrysene	0.0021	0.0029	mg/kg	J	J	NMED SSL	153	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0034	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8270C SIM	129-00-0	Pyrene	0.0017	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0037	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0064	0.0029	mg/kg			NMED SSL	1.12	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0094	0.0029	mg/kg			NMED SSL	1.53	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0075	0.0029	mg/kg			NMED SSL	1,740	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0026	0.0029	mg/kg	J	J	NMED SSL	15.3	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	218-01-9	Chrysene	0.0040	0.0029	mg/kg	J	J	NMED SSL	153	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	206-44-0	Fluoranthene	0.0045	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0063	0.0029	mg/kg			NMED SSL	1.53	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	85-01-8	Phenanthrene	0.0022	0.0029	mg/kg	J	J	NMED SSL	1,850	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS014-0.0-0.5DSO	8/19/2014	8270C SIM	129-00-0	Pyrene	0.0036	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS014-0.5-1.0DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0028	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS014-0.5-1.0DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS014-0.5-1.0DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0022	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8270C SIM	83-32-9	Acenaphthene	0.0026	0.0033	mg/kg	J	J	NMED SSL	3,480	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8270C SIM	208-96-8	Acenaphthylene	0.0027	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0023	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0034	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8270C SIM	91-20-3	Naphthalene	0.0031	0.0033	mg/kg	J	J	NMED SSL	22.6	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8270C SIM	83-32-9	Acenaphthene	0.0032	0.0033	mg/kg	J	J	NMED SSL	3,480	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8270C SIM	208-96-8	Acenaphthylene	0.0033	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8270C SIM	86-73-7	Fluorene	0.0027	0.0033	mg/kg	J	J	NMED SSL	2,320	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8270C SIM	91-20-3	Naphthalene	0.0037	0.0033	mg/kg	J	J	NMED SSL	22.6	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0038	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0040	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0074	0.0033	mg/kg			NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0040	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0026	0.0033	mg/kg	J	J	NMED SSL	15.3	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	218-01-9	Chrysene	0.0047	0.0033	mg/kg	J	J	NMED SSL	153	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	206-44-0	Fluoranthene	0.0031	0.0033	mg/kg	J	J	NMED SSL	2,320	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0038	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8270C SIM	129-00-0	Pyrene	0.0032	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.023	0.0032	mg/kg			NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.032	0.0032	mg/kg			NMED SSL	1.12	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.051	0.0032	mg/kg			NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.014	0.0032	mg/kg			NMED SSL	1,740	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.011	0.0032	mg/kg			NMED SSL	15.3	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	218-01-9	Chrysene	0.025	0.0032	mg/kg			NMED SSL	153	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0037	0.0032	mg/kg	J	J	NMED SSL	0.153	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	206-44-0	Fluoranthene	0.012	0.0032	mg/kg			NMED SSL	2,320	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.017	0.0032	mg/kg			NMED SSL	1.53	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	85-01-8	Phenanthrene	0.0026	0.0032	mg/kg	J	J	NMED SSL	1,850	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8270C SIM	129-00-0	Pyrene	0.013	0.0032	mg/kg			NMED SSL	1,740	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0029	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0043	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0022	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0022	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0029	0.0034	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0041	0.0034	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0061	0.0034	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0035	0.0034	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	218-01-9	Chrysene	0.0027	0.0034	mg/kg	J	J	NMED SSL	153	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	206-44-0	Fluoranthene	0.0027	0.0034	mg/kg	J	J	NMED SSL	2,320	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0035	0.0034	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS023-0.0-0.5DSO	8/19/2014	8270C SIM	129-00-0	Pyrene	0.0026	0.0034	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0028	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0037	0.0033	mg/kg	J	J	NMED SSL	1.12	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0056	0.0033	mg/kg	J	J	NMED SSL	1.53	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0031	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	218-01-9	Chrysene	0.0024	0.0033	mg/kg	J	J	NMED SSL	153	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0032	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0018	0.0026	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0015	0.0026	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0026	0.0026	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0019	0.0026	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0016	0.0026	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0014	0.0026	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0016	0.0026	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS001-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0018	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0046	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0027	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0050	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0020	0.0027	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0035	0.0027	mg/kg	J	J	NMED SSL	153	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0035	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0020	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.0015	0.0027	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0026	0.0027	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0037	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0033	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0024	0.0028	mg/kg	J	J	NMED SSL	1.12	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0043	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0017	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0024	0.0028	mg/kg	J	J	NMED SSL	153	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0024	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.0018	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.75	0.36	mg/kg			NMED SSL	232	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.2	0.36	mg/kg	J	J	EPA RSL	78	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0040	0.0054	mg/kg	J	J	NMED SSL	3,480	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.03	0.0054	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.029	0.0054	mg/kg		J	NMED SSL	17,400	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.098	0.0054	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.052	0.0054	mg/kg			NMED SSL	1.12	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.16	0.0054	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.046	0.0054	mg/kg		J	NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.022	0.0054	mg/kg		J	NMED SSL	15.3	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.18	0.0054	mg/kg			NMED SSL	153	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.018	0.0054	mg/kg			NMED SSL	0.153	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.25	0.0054	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.021	0.0054	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.036	0.0054	mg/kg			NMED SSL	1.53	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.35	0.0054	mg/kg			NMED SSL	22.6	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.47	0.0054	mg/kg			NMED SSL	1,850	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.23	0.0054	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.91	0.36	mg/kg			NMED SSL	232	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C	132-64-9	Dibenzofuran	0.26	0.36	mg/kg	J	J	EPA RSL	78	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0055	0.0054	mg/kg	J	J	NMED SSL	3,480	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.04	0.0054	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	120-12-7	Anthracene	0.04	0.0054	mg/kg		J	NMED SSL	17,400	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.13	0.0054	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.068	0.0054	mg/kg			NMED SSL	1.12	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.19	0.0054	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.065	0.0054	mg/kg		J	NMED SSL	1,740	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.038	0.0054	mg/kg		J	NMED SSL	15.3	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	218-01-9	Chrysene	0.21	0.0054	mg/kg			NMED SSL	153	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.023	0.0054	mg/kg			NMED SSL	0.153	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.32	0.0054	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	86-73-7	Fluorene	0.027	0.0054	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.047	0.0054	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.45	0.0054	mg/kg			NMED SSL	22.6	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.6	0.0054	mg/kg			NMED SSL	1,850	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8270C SIM	129-00-0	Pyrene	0.29	0.0054	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	1.3	0.37	mg/kg			NMED SSL	232	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.3	0.37	mg/kg	J	J	EPA RSL	78	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0097	0.0055	mg/kg	J	J	NMED SSL	3,480	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.051	0.0055	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.061	0.0055	mg/kg			NMED SSL	17,400	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.16	0.0055	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.074	0.0055	mg/kg			NMED SSL	1.12	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.21	0.0055	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.083	0.0055	mg/kg			NMED SSL	1,740	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.04	0.0055	mg/kg			NMED SSL	15.3	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.23	0.0055	mg/kg			NMED SSL	153	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.031	0.0055	mg/kg			NMED SSL	0.153	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.4	0.0055	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.037	0.0055	mg/kg			NMED SSL	2,320	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.059	0.0055	mg/kg			NMED SSL	1.53	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.57	0.0055	mg/kg			NMED SSL	22.6	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.72	0.0055	mg/kg			NMED SSL	1,850	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.36	0.0055	mg/kg			NMED SSL	1,740	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0028	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0044	0.0027	mg/kg	J	J	NMED SSL	17,400	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.024	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0050	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.021	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0074	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0060	0.0027	mg/kg			NMED SSL	15.3	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.013	0.0027	mg/kg			NMED SSL	153	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.022	0.0027	mg/kg			NMED SSL	2,320	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0021	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.025	0.0027	mg/kg			NMED SSL	22.6	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.045	0.0027	mg/kg			NMED SSL	1,850	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.021	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0025	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0030	0.0028	mg/kg	J	J	NMED SSL	17,400	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0072	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0039	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.012	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0055	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0031	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0074	0.0028	mg/kg			NMED SSL	153	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.017	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0019	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0039	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.019	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.038	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.015	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0032	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0032	0.0029	mg/kg	J	J	NMED SSL	17,400	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.01	0.0029	mg/kg			NMED SSL	1.53	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0056	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.014	0.0029	mg/kg			NMED SSL	1.53	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.011	0.0029	mg/kg			NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0025	0.0029	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0097	0.0029	mg/kg			NMED SSL	153	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.025	0.0029	mg/kg			NMED SSL	2,320	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0020	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0054	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.027	0.0029	mg/kg			NMED SSL	22.6	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.047	0.0029	mg/kg			NMED SSL	1,850	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.02	0.0029	mg/kg			NMED SSL	1,740	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0041	0.0032	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0054	0.0032	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0035	0.0032	mg/kg	J	J	NMED SSL	153	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0095	0.0032	mg/kg			NMED SSL	2,320	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.01	0.0032	mg/kg			NMED SSL	22.6	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.019	0.0032	mg/kg			NMED SSL	1,850	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0080	0.0032	mg/kg			NMED SSL	1,740	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0042	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0022	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0054	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0019	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0038	0.0029	mg/kg	J	J	NMED SSL	153	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0082	0.0029	mg/kg			NMED SSL	2,320	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.012	0.0029	mg/kg			NMED SSL	22.6	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.014	0.0029	mg/kg			NMED SSL	1,850	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0072	0.0029	mg/kg			NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0063	0.0029	mg/kg			NMED SSL	1.53	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0039	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0079	0.0029	mg/kg			NMED SSL	1.53	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0040	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0061	0.0029	mg/kg			NMED SSL	153	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.014	0.0029	mg/kg			NMED SSL	2,320	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0029	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.0090	0.0029	mg/kg			NMED SSL	22.6	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.017	0.0029	mg/kg			NMED SSL	1,850	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.011	0.0029	mg/kg			NMED SSL	1,740	no
0725F5SS008-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0016	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS008-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0024	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS008-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0016	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS008-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0015	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS008-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.0026	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS008-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0029	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS008-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0015	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0016	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0064	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0023	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0089	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0032	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0069	0.0027	mg/kg			NMED SSL	153	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.016	0.0027	mg/kg			NMED SSL	2,320	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0026	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.023	0.0027	mg/kg			NMED SSL	22.6	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.026	0.0027	mg/kg			NMED SSL	1,850	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.012	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0040	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0052	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0018	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0042	0.0028	mg/kg	J	J	NMED SSL	153	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0091	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.013	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.016	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0072	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0037	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.013	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0075	0.0028	mg/kg			NMED SSL	1.12	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.017	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0067	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0046	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.012	0.0028	mg/kg			NMED SSL	153	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0019	0.0028	mg/kg	J	J	NMED SSL	0.153	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.026	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0020	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0056	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.039	0.0028	mg/kg			NMED SSL	22.6	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.05	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.022	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0038	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0036	0.0028	mg/kg	J	J	NMED SSL	17,400	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.01	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0052	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.012	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0043	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0025	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0081	0.0028	mg/kg			NMED SSL	153	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.021	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0030	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0040	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.021	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.042	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.017	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS011-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0031	0.0029	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS011-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.0021	0.0031	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS011-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.0022	0.0031	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS014-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0036	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS014-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0034	0.0027	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS014-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0060	0.0027	mg/kg			NMED SSL	1,850	no
0725F5SS014-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0030	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS014-0.5-1.0DSO	8/25/2014	8270C SIM	208-96-8	Acenaphthylene	0.0020	0.0028	mg/kg	J	J	NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS014-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0053	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS014-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0061	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS014-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0094	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS014-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0045	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C	91-57-6	2-Methylnaphthalene	0.16	0.18	mg/kg	J	J	NMED SSL	232	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	208-96-8	Acenaphthylene	0.0069	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.02	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0083	0.0028	mg/kg			NMED SSL	1.12	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.032	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0059	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0043	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.032	0.0028	mg/kg			NMED SSL	153	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.072	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0073	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.06	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.15	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.056	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.017	0.0033	mg/kg			NMED SSL	1.53	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.018	0.0033	mg/kg			NMED SSL	1.53	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0038	0.0033	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.014	0.0033	mg/kg			NMED SSL	153	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.045	0.0033	mg/kg			NMED SSL	2,320	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0044	0.0033	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.033	0.0033	mg/kg			NMED SSL	22.6	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.083	0.0033	mg/kg			NMED SSL	1,850	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.033	0.0033	mg/kg			NMED SSL	1,740	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0054	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0038	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0075	0.0028	mg/kg			NMED SSL	1.53	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0037	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.0034	0.0028	mg/kg	J	J	NMED SSL	153	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0051	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0040	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0023	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0051	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0045	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS016-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0030	0.0032	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS016-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0040	0.0032	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS016-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0026	0.0032	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0029	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0017	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0034	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0017	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	218-01-9	Chrysene	0.0021	0.0029	mg/kg	J	J	NMED SSL	153	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0035	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0017	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0049	0.0029	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0032	0.0029	mg/kg	J	J	NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	208-96-8	Acenaphthylene	0.0056	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.015	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0061	0.0027	mg/kg			NMED SSL	1.12	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.019	0.0027	mg/kg			NMED SSL	1.53	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0053	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.016	0.0027	mg/kg			NMED SSL	153	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.04	0.0027	mg/kg			NMED SSL	2,320	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0054	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.029	0.0027	mg/kg			NMED SSL	22.6	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.069	0.0027	mg/kg			NMED SSL	1,850	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.032	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0040	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0038	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0083	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0035	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0035	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0036	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.0029	0.0027	mg/kg	J	J	NMED SSL	153	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0067	0.0027	mg/kg			NMED SSL	2,320	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0071	0.0027	mg/kg			NMED SSL	22.6	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.013	0.0027	mg/kg			NMED SSL	1,850	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0056	0.0027	mg/kg			NMED SSL	1,740	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0049	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0040	0.0028	mg/kg	J	J	NMED SSL	1.53	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.0038	0.0028	mg/kg	J	J	NMED SSL	153	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0084	0.0028	mg/kg			NMED SSL	2,320	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0075	0.0028	mg/kg			NMED SSL	22.6	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.015	0.0028	mg/kg			NMED SSL	1,850	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0075	0.0028	mg/kg			NMED SSL	1,740	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0024	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0016	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0027	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0016	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0023	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0025	0.0027	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0015	0.0027	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0023	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0031	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0024	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0036	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0026	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS022-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0027	0.0028	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0025	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0017	0.0031	mg/kg	J	J	NMED SSL	1.12	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0028	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0026	0.0031	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0023	0.0031	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS024-0.0-0.5DSO	8/25/2014	8270C	108-95-2	Phenol	0.19	0.2	mg/kg	J	J	NMED SSL	18,500	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS024-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0017	0.0031	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS024-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0035	0.0032	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS024-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0023	0.0032	mg/kg	J	J	NMED SSL	1,850	no
0725F5SS025-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0024	0.0029	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS025-0.5-1.0DSO	8/25/2014	8270C	108-95-2	Phenol	0.25	0.19	mg/kg	J	J	NMED SSL	18,500	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0018	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0022	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0019	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0016	0.0027	mg/kg	J	J	NMED SSL	22.6	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0016	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	120-12-7	Anthracene	0.0044	0.0026	mg/kg	J	J	NMED SSL	17,400	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0071	0.0026	mg/kg			NMED SSL	1.53	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0055	0.0026	mg/kg			NMED SSL	1.12	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.015	0.0026	mg/kg			NMED SSL	1.53	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0055	0.0026	mg/kg			NMED SSL	1,740	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0045	0.0026	mg/kg	J	J	NMED SSL	15.3	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	218-01-9	Chrysene	0.0062	0.0026	mg/kg			NMED SSL	153	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	206-44-0	Fluoranthene	0.0084	0.0026	mg/kg			NMED SSL	2,320	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0047	0.0026	mg/kg	J	J	NMED SSL	1.53	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	91-20-3	Naphthalene	0.0062	0.0026	mg/kg			NMED SSL	22.6	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	85-01-8	Phenanthrene	0.0062	0.0026	mg/kg			NMED SSL	1,850	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8270C SIM	129-00-0	Pyrene	0.0060	0.0026	mg/kg			NMED SSL	1,740	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.25	0.18	mg/kg	J	J	NMED SSL	232	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0037	0.0027	mg/kg	J	J	NMED SSL	3,480	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0085	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.011	0.0027	mg/kg			NMED SSL	17,400	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.043	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.031	0.0027	mg/kg			NMED SSL	1.12	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.065	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.031	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0092	0.0027	mg/kg			NMED SSL	15.3	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.089	0.0027	mg/kg			NMED SSL	153	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0066	0.0027	mg/kg			NMED SSL	0.153	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.06	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0075	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.013	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.12	0.0027	mg/kg			NMED SSL	22.6	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.14	0.0027	mg/kg			NMED SSL	1,850	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.062	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.15	0.19	mg/kg	J	J	NMED SSL	232	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0047	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0048	0.0028	mg/kg	J	J	NMED SSL	17,400	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.02	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.015	0.0028	mg/kg		J	NMED SSL	1.12	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.028	0.0028	mg/kg		J	NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.015	0.0028	mg/kg		J	NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0051	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.037	0.0028	mg/kg		J	NMED SSL	153	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0030	0.0028	mg/kg	J	J	NMED SSL	0.153	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.027	0.0028	mg/kg		J	NMED SSL	2,320	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0040	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0057	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.09	0.0028	mg/kg		J	NMED SSL	22.6	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.069	0.0028	mg/kg		J	NMED SSL	1,850	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.028	0.0028	mg/kg		J	NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0030	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0031	0.0028	mg/kg	J	J	NMED SSL	17,400	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.015	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0085	0.0028	mg/kg		J	NMED SSL	1.12	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.016	0.0028	mg/kg		J	NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0086	0.0028	mg/kg		J	NMED SSL	1,740	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0029	0.0028	mg/kg	J	J	NMED SSL	15.3	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	218-01-9	Chrysene	0.022	0.0028	mg/kg		J	NMED SSL	153	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.017	0.0028	mg/kg		J	NMED SSL	2,320	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0023	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0033	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.051	0.0028	mg/kg		J	NMED SSL	22.6	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.041	0.0028	mg/kg		J	NMED SSL	1,850	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8270C SIM	129-00-0	Pyrene	0.017	0.0028	mg/kg		J	NMED SSL	1,740	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.77	0.18	mg/kg			NMED SSL	232	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.17	0.18	mg/kg	J	J	EPA RSL	78	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0067	0.0027	mg/kg			NMED SSL	3,480	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.02	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.019	0.0027	mg/kg			NMED SSL	17,400	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.11	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.065	0.0027	mg/kg			NMED SSL	1.12	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.16	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.061	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.017	0.0027	mg/kg			NMED SSL	15.3	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.23	0.0027	mg/kg			NMED SSL	153	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.014	0.0027	mg/kg			NMED SSL	0.153	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.15	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.014	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.026	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.46	0.0027	mg/kg			NMED SSL	22.6	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.38	0.0027	mg/kg			NMED SSL	1,850	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.16	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.97	0.19	mg/kg			NMED SSL	232	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.17	0.19	mg/kg	J	J	EPA RSL	78	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.016	0.0028	mg/kg			NMED SSL	3,480	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.027	0.0028	mg/kg			NMED SSL	1,740	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.04	0.0028	mg/kg			NMED SSL	17,400	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.15	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.099	0.0028	mg/kg			NMED SSL	1.12	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.2	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.082	0.0028	mg/kg			NMED SSL	1,740	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
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0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.028	0.0028	mg/kg			NMED SSL	15.3	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.26	0.0028	mg/kg			NMED SSL	153	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.017	0.0028	mg/kg			NMED SSL	0.153	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.21	0.0028	mg/kg			NMED SSL	2,320	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.026	0.0028	mg/kg			NMED SSL	2,320	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.034	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.48	0.0028	mg/kg			NMED SSL	22.6	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.43	0.0028	mg/kg			NMED SSL	1,850	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.2	0.0028	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	1.4	0.18	mg/kg			NMED SSL	232	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.27	0.18	mg/kg	J	J	EPA RSL	78	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.011	0.0027	mg/kg			NMED SSL	3,480	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.034	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.037	0.0027	mg/kg			NMED SSL	17,400	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.13	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.09	0.0027	mg/kg			NMED SSL	1.12	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.19	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.082	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.033	0.0027	mg/kg			NMED SSL	15.3	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.26	0.0027	mg/kg			NMED SSL	153	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.017	0.0027	mg/kg			NMED SSL	0.153	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.18	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.027	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.031	0.0027	mg/kg			NMED SSL	1.53	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.79	0.0027	mg/kg			NMED SSL	22.6	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.55	0.0027	mg/kg			NMED SSL	1,850	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.19	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.35	0.19	mg/kg	J	J	NMED SSL	232	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0031	0.0028	mg/kg	J	J	NMED SSL	3,480	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0086	0.0028	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0095	0.0028	mg/kg			NMED SSL	17,400	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.033	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.019	0.0028	mg/kg			NMED SSL	1.12	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.044	0.0028	mg/kg			NMED SSL	1.53	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.018	0.0028	mg/kg			NMED SSL	1,740	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0058	0.0028	mg/kg			NMED SSL	15.3	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.055	0.0028	mg/kg			NMED SSL	153	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.044	0.0028	mg/kg			NMED SSL	2,320	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0067	0.0028	mg/kg			NMED SSL	2,320	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0048	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.2	0.0028	mg/kg			NMED SSL	22.6	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.12	0.0028	mg/kg			NMED SSL	1,850	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.043	0.0028	mg/kg			NMED SSL	1,740	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.19	0.19	mg/kg	J	J	NMED SSL	232	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0042	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0040	0.0029	mg/kg	J	J	NMED SSL	17,400	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.014	0.0029	mg/kg			NMED SSL	1.53	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0099	0.0029	mg/kg			NMED SSL	1.12	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.021	0.0029	mg/kg			NMED SSL	1.53	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0076	0.0029	mg/kg			NMED SSL	1,740	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0046	0.0029	mg/kg	J	J	NMED SSL	15.3	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.026	0.0029	mg/kg			NMED SSL	153	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.024	0.0029	mg/kg			NMED SSL	2,320	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0027	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0035	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.14	0.0029	mg/kg			NMED SSL	22.6	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.069	0.0029	mg/kg			NMED SSL	1,850	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.022	0.0029	mg/kg			NMED SSL	1,740	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0053	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0032	0.0029	mg/kg	J	J	NMED SSL	1.12	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0068	0.0029	mg/kg			NMED SSL	1.53	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0026	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0068	0.0029	mg/kg			NMED SSL	153	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0076	0.0029	mg/kg			NMED SSL	2,320	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.039	0.0029	mg/kg			NMED SSL	22.6	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.02	0.0029	mg/kg			NMED SSL	1,850	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0068	0.0029	mg/kg			NMED SSL	1,740	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	1.5	0.18	mg/kg			NMED SSL	232	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C	98-86-2	Acetophenone	0.17	0.18	mg/kg	J	J	NMED SSL	7,820	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.31	0.18	mg/kg	J	J	EPA RSL	78	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0087	0.0027	mg/kg			NMED SSL	3,480	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.032	0.0027	mg/kg			NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.029	0.0027	mg/kg			NMED SSL	17,400	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.13	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.079	0.0027	mg/kg			NMED SSL	1.12	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.2	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.082	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.027	0.0027	mg/kg			NMED SSL	15.3	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.27	0.0027	mg/kg			NMED SSL	153	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.017	0.0027	mg/kg			NMED SSL	0.153	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.2	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.021	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.031	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	1	0.0027	mg/kg			NMED SSL	22.6	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.59	0.0027	mg/kg			NMED SSL	1,850	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.2	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0062	0.0030	mg/kg			NMED SSL	1.53	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0030	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.0062	0.0030	mg/kg			NMED SSL	153	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.0069	0.0030	mg/kg			NMED SSL	2,320	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.025	0.0030	mg/kg			NMED SSL	22.6	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.017	0.0030	mg/kg			NMED SSL	1,850	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.0068	0.0030	mg/kg			NMED SSL	1,740	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	1.5	0.18	mg/kg			NMED SSL	232	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C	98-86-2	Acetophenone	0.14	0.18	mg/kg	J	J	NMED SSL	7,820	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C	132-64-9	Dibenzofuran	0.29	0.18	mg/kg	J	J	EPA RSL	78	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0077	0.0027	mg/kg			NMED SSL	3,480	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.031	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.031	0.0027	mg/kg			NMED SSL	17,400	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.1	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.061	0.0027	mg/kg			NMED SSL	1.12	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.14	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.068	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.026	0.0027	mg/kg			NMED SSL	15.3	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.2	0.0027	mg/kg			NMED SSL	153	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.014	0.0027	mg/kg			NMED SSL	0.153	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.15	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.022	0.0027	mg/kg			NMED SSL	2,320	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.025	0.0027	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.98	0.0027	mg/kg			NMED SSL	22.6	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.52	0.0027	mg/kg			NMED SSL	1,850	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.15	0.0027	mg/kg			NMED SSL	1,740	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C	91-57-6	2-Methylnaphthalene	0.34	0.21	mg/kg	J	J	NMED SSL	232	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	83-32-9	Acenaphthene	0.0025	0.0031	mg/kg	J	J	NMED SSL	3,480	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	208-96-8	Acenaphthylene	0.0078	0.0031	mg/kg			NMED SSL	1,740	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	120-12-7	Anthracene	0.0086	0.0031	mg/kg			NMED SSL	17,400	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.036	0.0031	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.031	0.0031	mg/kg			NMED SSL	1.12	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.056	0.0031	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.032	0.0031	mg/kg			NMED SSL	1,740	no

Table B.4-3
SWMU 25 - Trash Burning Ground Property Disposal Office - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.014	0.0031	mg/kg			NMED SSL	15.3	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	218-01-9	Chrysene	0.056	0.0031	mg/kg			NMED SSL	153	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	206-44-0	Fluoranthene	0.045	0.0031	mg/kg			NMED SSL	2,320	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	86-73-7	Fluorene	0.0057	0.0031	mg/kg	J	J	NMED SSL	2,320	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.012	0.0031	mg/kg			NMED SSL	1.53	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	91-20-3	Naphthalene	0.2	0.0031	mg/kg			NMED SSL	22.6	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	85-01-8	Phenanthrene	0.11	0.0031	mg/kg			NMED SSL	1,850	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8270C SIM	129-00-0	Pyrene	0.045	0.0031	mg/kg			NMED SSL	1,740	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-4
SWMU 25 - Trash Burning Ground Property Disposal Office - TPH Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS003-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	440	5.4	mg/kg			NMED SSL	1,000	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8015B	68334-30-5	TPH-DRO	460	5.4	mg/kg			NMED SSL	1,000	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	680	5.5	mg/kg			NMED SSL	1,000	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	8.3	5.5	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	5.9	5.5	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	7.7	5.9	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	3.9	6.3	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	5.5	5.4	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	3.9	5.6	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	4.1	5.6	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	5.0	5.7	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	54	5.5	mg/kg			NMED SSL	1,000	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	37	6.5	mg/kg			NMED SSL	1,000	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	35	5.5	mg/kg			NMED SSL	1,000	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	4.5	5.7	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	3.6	5.4	mg/kg	J	J	NMED SSL	1,000	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8015B	68334-30-5	TPH-DRO	5.0	5.6	mg/kg	J	J	NMED SSL	1,000	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	69	5.5	mg/kg			NMED SSL	1,000	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	97	5.7	mg/kg		J	NMED SSL	1,000	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8015B	68334-30-5	TPH-DRO	32	5.7	mg/kg		J	NMED SSL	1,000	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	180	5.5	mg/kg			NMED SSL	1,000	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	220	5.6	mg/kg			NMED SSL	1,000	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	230	5.4	mg/kg			NMED SSL	1,000	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	48	5.7	mg/kg			NMED SSL	1,000	no

Table B.4-4
SWMU 25 - Trash Burning Ground Property Disposal Office - TPH Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS004-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	14	5.8	mg/kg			NMED SSL	1,000	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	5.0	5.9	mg/kg	J	J	NMED SSL	1,000	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	260	5.4	mg/kg			NMED SSL	1,000	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	230	5.5	mg/kg			NMED SSL	1,000	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	8015B	68334-30-5	TPH-DRO	17	6.2	mg/kg			NMED SSL	1,000	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

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Sample ID Nomenclature:

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Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	38,500	5.39	mg/kg			NMED SSL	41,400	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.80	0.431	mg/kg			NMED SSL	7.07	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	311	0.216	mg/kg			NMED SSL	4,390	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.54	0.108	mg/kg			NMED SSL	148	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.205	0.216	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	37,200	10.8	mg/kg			NMED SSL	8,850,000	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.74	0.216	mg/kg			NMED SSL	23.4	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.87	0.323	mg/kg			NMED SSL	3,130	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	25,200	3.23	mg/kg			NMED SSL	54,800	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.323	mg/kg			EPA RSL	200	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,900	10.8	mg/kg			NMED SSL	1,550,000	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	504	0.323	mg/kg			NMED SSL	464	YES
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.9	0.323	mg/kg			NMED SSL	753	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,290	10.8	mg/kg			NMED SSL	15,600,000	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,410	10.8	mg/kg			NMED SSL	7,820,000	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	26.2	0.323	mg/kg			NMED SSL	96.6	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	47.2	0.162	mg/kg			NMED SSL	394	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	44.1	1.08	mg/kg			NMED SSL	23,500	no
0725F1SS001-0.0-0.5DSO	8/27/2014	SW7471A	7439-97-6	Mercury	0.0113	0.0215	mg/kg	J	J	NMED SSL	20.7	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	45,500	25.8	mg/kg		J	NMED SSL	41,400	YES
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	3.38	2.06	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	339	1.03	mg/kg			NMED SSL	4,390	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.62	0.515	mg/kg	J	J	NMED SSL	148	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,400	51.5	mg/kg			NMED SSL	8,850,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.2	1.03	mg/kg			NMED SSL	23.4	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.51	1.55	mg/kg			NMED SSL	3,130	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	27,700	15.5	mg/kg			NMED SSL	54,800	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	16.7	1.55	mg/kg			EPA RSL	200	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	13,700	51.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	540	1.55	mg/kg			NMED SSL	464	YES
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	22.8	1.55	mg/kg			NMED SSL	753	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,440	51.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,790	51.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	29.1	1.55	mg/kg			NMED SSL	96.6	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	48.9	0.773	mg/kg			NMED SSL	394	no
0725F1SS001-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	44.8	5.15	mg/kg			NMED SSL	23,500	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7429-90-5	Aluminum	33,600	5.10	mg/kg		J	NMED SSL	41,400	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-38-2	Arsenic	2.76	0.408	mg/kg			NMED SSL	7.07	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-39-3	Barium	283	0.204	mg/kg			NMED SSL	4,390	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-41-7	Beryllium	1.43	0.102	mg/kg			NMED SSL	148	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-43-9	Cadmium	0.209	0.204	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-70-2	Calcium	36,300	10.2	mg/kg			NMED SSL	8,850,000	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-48-4	Cobalt	8.95	0.204	mg/kg			NMED SSL	23.4	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-50-8	Copper	9.40	0.306	mg/kg			NMED SSL	3,130	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-89-6	Iron	23,000	3.06	mg/kg			NMED SSL	54,800	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.306	mg/kg			EPA RSL	200	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-95-4	Magnesium	11,600	10.2	mg/kg			NMED SSL	1,550,000	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-96-5	Manganese	484	0.306	mg/kg			NMED SSL	464	YES

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-02-0	Nickel	20.1	0.306	mg/kg			NMED SSL	753	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-09-7	Potassium	6,840	10.2	mg/kg			NMED SSL	15,600,000	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-23-5	Sodium	1,710	10.2	mg/kg			NMED SSL	7,820,000	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.8	0.306	mg/kg			NMED SSL	96.6	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-62-2	Vanadium	42.6	0.153	mg/kg			NMED SSL	394	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-66-6	Zinc	39.5	1.02	mg/kg			NMED SSL	23,500	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	36,000	5.59	mg/kg			NMED SSL	41,400	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.63	0.447	mg/kg			NMED SSL	7.07	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	325	0.224	mg/kg			NMED SSL	4,390	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.52	0.112	mg/kg			NMED SSL	148	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.142	0.224	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,600	11.2	mg/kg			NMED SSL	8,850,000	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.59	0.224	mg/kg			NMED SSL	23.4	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.48	0.336	mg/kg			NMED SSL	3,130	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	24,700	3.36	mg/kg			NMED SSL	54,800	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.336	mg/kg			EPA RSL	200	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,700	11.2	mg/kg			NMED SSL	1,550,000	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	497	0.336	mg/kg			NMED SSL	464	YES
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	22.1	0.336	mg/kg			NMED SSL	753	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,790	11.2	mg/kg			NMED SSL	15,600,000	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,570	11.2	mg/kg			NMED SSL	7,820,000	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.2	0.336	mg/kg			NMED SSL	96.6	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	44.2	0.168	mg/kg			NMED SSL	394	no
0725F1SS002-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	38.6	1.12	mg/kg			NMED SSL	23,500	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	40,700	6.16	mg/kg			NMED SSL	41,400	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.94	0.493	mg/kg			NMED SSL	7.07	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	340	0.246	mg/kg			NMED SSL	4,390	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.60	0.123	mg/kg			NMED SSL	148	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	37,700	12.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.0	0.246	mg/kg			NMED SSL	23.4	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.70	0.369	mg/kg			NMED SSL	3,130	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	26,400	3.69	mg/kg			NMED SSL	54,800	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.369	mg/kg			EPA RSL	200	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	13,600	12.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	483	0.369	mg/kg			NMED SSL	464	YES
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	23.3	0.369	mg/kg			NMED SSL	753	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,920	12.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7782-49-2	Selenium	0.374	0.616	mg/kg	J	J	NMED SSL	391	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	2,240	12.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	28.3	0.369	mg/kg			NMED SSL	96.6	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	47.5	0.185	mg/kg			NMED SSL	394	no
0725F1SS002-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	41.4	1.23	mg/kg			NMED SSL	23,500	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	38,600	5.69	mg/kg			NMED SSL	41,400	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	3.15	0.455	mg/kg			NMED SSL	7.07	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	336	0.228	mg/kg			NMED SSL	4,390	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.57	0.114	mg/kg			NMED SSL	148	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,500	11.4	mg/kg			NMED SSL	8,850,000	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.86	0.228	mg/kg			NMED SSL	23.4	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.76	0.341	mg/kg			NMED SSL	3,130	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	25,700	3.41	mg/kg			NMED SSL	54,800	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.7	0.341	mg/kg			EPA RSL	200	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	13,300	11.4	mg/kg			NMED SSL	1,550,000	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	505	0.341	mg/kg			NMED SSL	464	YES
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	22.9	0.341	mg/kg			NMED SSL	753	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,810	11.4	mg/kg			NMED SSL	15,600,000	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,330	11.4	mg/kg			NMED SSL	7,820,000	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	27.2	0.341	mg/kg			NMED SSL	96.6	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	46.1	0.171	mg/kg			NMED SSL	394	no
0725F1SS003-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	40.8	1.14	mg/kg			NMED SSL	23,500	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	31,900	6.15	mg/kg			NMED SSL	41,400	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.47	0.492	mg/kg			NMED SSL	7.07	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	277	0.246	mg/kg			NMED SSL	4,390	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.39	0.123	mg/kg			NMED SSL	148	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	36,200	12.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.57	0.246	mg/kg			NMED SSL	23.4	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.84	0.369	mg/kg			NMED SSL	3,130	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,500	3.69	mg/kg			NMED SSL	54,800	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.0	0.369	mg/kg			EPA RSL	200	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,300	12.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	430	0.369	mg/kg			NMED SSL	464	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.0	0.369	mg/kg			NMED SSL	753	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,870	12.3	mg/kg			NMED SSL	15,600,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,570	12.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.3	0.369	mg/kg			NMED SSL	96.6	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.4	0.184	mg/kg			NMED SSL	394	no
0725F1SS003-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	34.6	1.23	mg/kg			NMED SSL	23,500	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	34,000	5.45	mg/kg		J	NMED SSL	41,400	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.56	0.436	mg/kg			NMED SSL	7.07	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	326	0.218	mg/kg			NMED SSL	4,390	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.42	0.109	mg/kg			NMED SSL	148	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.343	0.218	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	42,800	10.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.10	0.218	mg/kg			NMED SSL	23.4	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.39	0.327	mg/kg			NMED SSL	3,130	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,800	3.27	mg/kg			NMED SSL	54,800	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.1	0.327	mg/kg			EPA RSL	200	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,000	10.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	540	0.327	mg/kg			NMED SSL	464	YES
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.4	0.327	mg/kg			NMED SSL	753	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,430	10.9	mg/kg		J	NMED SSL	15,600,000	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,280	10.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	23.5	0.327	mg/kg			NMED SSL	96.6	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.7	0.164	mg/kg			NMED SSL	394	no
0725F1SS004-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	36.2	1.09	mg/kg			NMED SSL	23,500	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	27,600	5.57	mg/kg			NMED SSL	41,400	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.64	0.445	mg/kg			NMED SSL	7.07	no

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0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	315	0.223	mg/kg			NMED SSL	4,390	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.32	0.111	mg/kg			NMED SSL	148	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	44,700	11.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.19	0.223	mg/kg			NMED SSL	23.4	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.98	0.334	mg/kg			NMED SSL	3,130	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,900	3.34	mg/kg			NMED SSL	54,800	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.1	0.334	mg/kg			EPA RSL	200	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,400	11.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	526	0.334	mg/kg			NMED SSL	464	YES
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.6	0.334	mg/kg			NMED SSL	753	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	4,780	11.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,870	11.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	19.7	0.334	mg/kg			NMED SSL	96.6	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	37.8	0.167	mg/kg			NMED SSL	394	no
0725F1SS004-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	31.7	1.11	mg/kg			NMED SSL	23,500	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	30,900	5.32	mg/kg			NMED SSL	41,400	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.76	0.425	mg/kg			NMED SSL	7.07	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	332	0.213	mg/kg			NMED SSL	4,390	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.28	0.106	mg/kg			NMED SSL	148	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.122	0.213	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	43,800	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.31	0.213	mg/kg			NMED SSL	23.4	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.82	0.319	mg/kg			NMED SSL	3,130	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,300	3.19	mg/kg			NMED SSL	54,800	no

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0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.3	0.319	mg/kg			EPA RSL	200	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,200	10.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	524	0.319	mg/kg			NMED SSL	464	YES
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.9	0.319	mg/kg			NMED SSL	753	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,840	10.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,310	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.4	0.319	mg/kg			NMED SSL	96.6	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	40.2	0.160	mg/kg			NMED SSL	394	no
0725F1SS005-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	33.9	1.06	mg/kg			NMED SSL	23,500	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,600	4.95	mg/kg			NMED SSL	41,400	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.54	0.396	mg/kg			NMED SSL	7.07	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	327	0.198	mg/kg			NMED SSL	4,390	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.25	0.0990	mg/kg			NMED SSL	148	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.112	0.198	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	47,300	9.90	mg/kg			NMED SSL	8,850,000	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.19	0.198	mg/kg			NMED SSL	23.4	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.52	0.297	mg/kg			NMED SSL	3,130	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,900	2.97	mg/kg			NMED SSL	54,800	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.8	0.297	mg/kg			EPA RSL	200	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,000	9.90	mg/kg			NMED SSL	1,550,000	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	526	0.297	mg/kg			NMED SSL	464	YES
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.7	0.297	mg/kg			NMED SSL	753	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,480	9.90	mg/kg			NMED SSL	15,600,000	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,640	9.90	mg/kg			NMED SSL	7,820,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.0	0.297	mg/kg			NMED SSL	96.6	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.1	0.149	mg/kg			NMED SSL	394	no
0725F1SS005-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	32.9	0.990	mg/kg			NMED SSL	23,500	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	30,000	5.20	mg/kg			NMED SSL	41,400	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.64	0.416	mg/kg			NMED SSL	7.07	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	313	0.208	mg/kg			NMED SSL	4,390	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.26	0.104	mg/kg			NMED SSL	148	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.139	0.208	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	46,600	10.4	mg/kg			NMED SSL	8,850,000	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.20	0.208	mg/kg			NMED SSL	23.4	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.90	0.312	mg/kg			NMED SSL	3,130	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,700	3.12	mg/kg			NMED SSL	54,800	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.1	0.312	mg/kg			EPA RSL	200	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,700	10.4	mg/kg			NMED SSL	1,550,000	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	524	0.312	mg/kg			NMED SSL	464	YES
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.6	0.312	mg/kg			NMED SSL	753	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,470	10.4	mg/kg			NMED SSL	15,600,000	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,110	10.4	mg/kg			NMED SSL	7,820,000	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.7	0.312	mg/kg			NMED SSL	96.6	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	40.2	0.156	mg/kg			NMED SSL	394	no
0725F1SS006-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	32.8	1.04	mg/kg			NMED SSL	23,500	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	38,900	5.81	mg/kg			NMED SSL	41,400	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.76	0.464	mg/kg			NMED SSL	7.07	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	354	0.232	mg/kg			NMED SSL	4,390	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.43	0.116	mg/kg			NMED SSL	148	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.161	0.232	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	49,900	11.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.38	0.232	mg/kg			NMED SSL	23.4	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.47	0.348	mg/kg			NMED SSL	3,130	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	24,200	3.48	mg/kg			NMED SSL	54,800	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.6	0.348	mg/kg			EPA RSL	200	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,800	11.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	574	0.348	mg/kg			NMED SSL	464	YES
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.3	0.348	mg/kg			NMED SSL	753	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,690	11.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,480	11.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	26.4	0.348	mg/kg			NMED SSL	96.6	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	48.3	0.174	mg/kg			NMED SSL	394	no
0725F1SS006-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	38.9	1.16	mg/kg			NMED SSL	23,500	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,100	5.14	mg/kg			NMED SSL	41,400	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.49	0.411	mg/kg			NMED SSL	7.07	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	326	0.205	mg/kg			NMED SSL	4,390	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.26	0.103	mg/kg			NMED SSL	148	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.138	0.205	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	43,900	10.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.29	0.205	mg/kg			NMED SSL	23.4	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.27	0.308	mg/kg			NMED SSL	3,130	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,700	3.08	mg/kg			NMED SSL	54,800	no

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0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.6	0.308	mg/kg			EPA RSL	200	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,700	10.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	531	0.308	mg/kg			NMED SSL	464	YES
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.7	0.308	mg/kg			NMED SSL	753	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,410	10.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	967	10.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.0	0.308	mg/kg			NMED SSL	96.6	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	38.6	0.154	mg/kg			NMED SSL	394	no
0725F1SS007-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	33.8	1.03	mg/kg			NMED SSL	23,500	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7429-90-5	Aluminum	23,900	4.87	mg/kg			NMED SSL	41,400	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-38-2	Arsenic	2.22	0.390	mg/kg			NMED SSL	7.07	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-39-3	Barium	304	0.195	mg/kg			NMED SSL	4,390	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-41-7	Beryllium	1.15	0.0974	mg/kg			NMED SSL	148	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-43-9	Cadmium	0.155	0.195	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-70-2	Calcium	43,900	9.74	mg/kg			NMED SSL	8,850,000	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-48-4	Cobalt	7.42	0.195	mg/kg			NMED SSL	23.4	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-50-8	Copper	8.07	0.292	mg/kg			NMED SSL	3,130	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-89-6	Iron	18,400	2.92	mg/kg			NMED SSL	54,800	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-92-1	Lead	14.3	0.292	mg/kg			EPA RSL	200	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-95-4	Magnesium	9,340	9.74	mg/kg			NMED SSL	1,550,000	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-96-5	Manganese	520	0.292	mg/kg			NMED SSL	464	YES
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-02-0	Nickel	16.6	0.292	mg/kg			NMED SSL	753	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-09-7	Potassium	4,240	9.74	mg/kg			NMED SSL	15,600,000	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-23-5	Sodium	929	9.74	mg/kg			NMED SSL	7,820,000	no

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0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-47-3	Total Chromium	16.6	0.292	mg/kg			NMED SSL	96.6	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-62-2	Vanadium	34.0	0.146	mg/kg			NMED SSL	394	no
0725F1SS007-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-66-6	Zinc	29.2	0.974	mg/kg			NMED SSL	23,500	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	26,500	5.31	mg/kg			NMED SSL	41,400	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.32	0.424	mg/kg			NMED SSL	7.07	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	375	0.212	mg/kg			NMED SSL	4,390	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.19	0.106	mg/kg			NMED SSL	148	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	45,600	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	7.54	0.212	mg/kg			NMED SSL	23.4	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.41	0.318	mg/kg			NMED SSL	3,130	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	19,100	3.18	mg/kg			NMED SSL	54,800	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.8	0.318	mg/kg			EPA RSL	200	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	9,980	10.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	564	0.318	mg/kg			NMED SSL	464	YES
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	16.9	0.318	mg/kg			NMED SSL	753	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	4,520	10.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,610	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	18.8	0.318	mg/kg			NMED SSL	96.6	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	35.4	0.159	mg/kg			NMED SSL	394	no
0725F1SS007-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	29.2	1.06	mg/kg			NMED SSL	23,500	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,200	5.52	mg/kg			NMED SSL	41,400	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.49	0.442	mg/kg			NMED SSL	7.07	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	331	0.221	mg/kg			NMED SSL	4,390	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.31	0.110	mg/kg			NMED SSL	148	no

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0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	45,400	11.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.31	0.221	mg/kg			NMED SSL	23.4	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.23	0.331	mg/kg			NMED SSL	3,130	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,100	3.31	mg/kg			NMED SSL	54,800	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.9	0.331	mg/kg			EPA RSL	200	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,800	11.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	536	0.331	mg/kg			NMED SSL	464	YES
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.9	0.331	mg/kg			NMED SSL	753	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,220	11.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	916	11.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.5	0.331	mg/kg			NMED SSL	96.6	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	37.8	0.166	mg/kg			NMED SSL	394	no
0725F1SS008-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	32.8	1.10	mg/kg			NMED SSL	23,500	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	28,500	5.34	mg/kg			NMED SSL	41,400	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.45	0.428	mg/kg			NMED SSL	7.07	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	336	0.214	mg/kg			NMED SSL	4,390	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.25	0.107	mg/kg			NMED SSL	148	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	44,000	10.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	7.94	0.214	mg/kg			NMED SSL	23.4	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.61	0.321	mg/kg			NMED SSL	3,130	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,100	3.21	mg/kg			NMED SSL	54,800	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.0	0.321	mg/kg			EPA RSL	200	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,400	10.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	532	0.321	mg/kg			NMED SSL	464	YES

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.0	0.321	mg/kg			NMED SSL	753	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,120	10.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,150	10.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.1	0.321	mg/kg			NMED SSL	96.6	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	36.7	0.160	mg/kg			NMED SSL	394	no
0725F1SS008-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	31.4	1.07	mg/kg			NMED SSL	23,500	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	34,400	5.40	mg/kg			NMED SSL	41,400	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.67	0.432	mg/kg			NMED SSL	7.07	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	340	0.216	mg/kg			NMED SSL	4,390	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.37	0.108	mg/kg			NMED SSL	148	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.147	0.216	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	40,100	10.8	mg/kg			NMED SSL	8,850,000	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.86	0.216	mg/kg			NMED SSL	23.4	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.27	0.324	mg/kg			NMED SSL	3,130	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,700	3.24	mg/kg			NMED SSL	54,800	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.9	0.324	mg/kg			EPA RSL	200	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,900	10.8	mg/kg			NMED SSL	1,550,000	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	506	0.324	mg/kg			NMED SSL	464	YES
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.3	0.324	mg/kg			NMED SSL	753	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,530	10.8	mg/kg			NMED SSL	15,600,000	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,010	10.8	mg/kg			NMED SSL	7,820,000	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	23.4	0.324	mg/kg			NMED SSL	96.6	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	42.1	0.162	mg/kg			NMED SSL	394	no
0725F1SS009-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	36.8	1.08	mg/kg			NMED SSL	23,500	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	37,300	5.84	mg/kg			NMED SSL	41,400	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.54	0.468	mg/kg			NMED SSL	7.07	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	344	0.234	mg/kg			NMED SSL	4,390	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.44	0.117	mg/kg			NMED SSL	148	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.172	0.234	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	41,000	11.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.33	0.234	mg/kg			NMED SSL	23.4	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.38	0.351	mg/kg			NMED SSL	3,130	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,900	3.51	mg/kg			NMED SSL	54,800	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.3	0.351	mg/kg			EPA RSL	200	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,600	11.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	525	0.351	mg/kg			NMED SSL	464	YES
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.5	0.351	mg/kg			NMED SSL	753	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,110	11.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,420	11.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.1	0.351	mg/kg			NMED SSL	96.6	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	45.2	0.175	mg/kg			NMED SSL	394	no
0725F1SS009-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	39.3	1.17	mg/kg			NMED SSL	23,500	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,900	5.22	mg/kg			NMED SSL	41,400	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.87	0.417	mg/kg			NMED SSL	7.07	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	333	0.209	mg/kg			NMED SSL	4,390	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.43	0.104	mg/kg			NMED SSL	148	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.209	0.209	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	40,900	10.4	mg/kg			NMED SSL	8,850,000	no

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0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.04	0.209	mg/kg			NMED SSL	23.4	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.74	0.313	mg/kg			NMED SSL	3,130	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,000	3.13	mg/kg			NMED SSL	54,800	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	16.3	0.313	mg/kg			EPA RSL	200	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,200	10.4	mg/kg			NMED SSL	1,550,000	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	504	0.313	mg/kg			NMED SSL	464	YES
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.6	0.313	mg/kg			NMED SSL	753	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,750	10.4	mg/kg			NMED SSL	15,600,000	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,190	10.4	mg/kg			NMED SSL	7,820,000	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.5	0.313	mg/kg			NMED SSL	96.6	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	43.1	0.156	mg/kg			NMED SSL	394	no
0725F1SS010-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	39.5	1.04	mg/kg			NMED SSL	23,500	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	38,100	5.51	mg/kg			NMED SSL	41,400	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.93	0.441	mg/kg			NMED SSL	7.07	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	344	0.220	mg/kg			NMED SSL	4,390	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.49	0.110	mg/kg			NMED SSL	148	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.234	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,700	11.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.52	0.220	mg/kg			NMED SSL	23.4	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.55	0.331	mg/kg			NMED SSL	3,130	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	24,500	3.31	mg/kg			NMED SSL	54,800	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.331	mg/kg			EPA RSL	200	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	13,000	11.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	509	0.331	mg/kg			NMED SSL	464	YES

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.8	0.331	mg/kg			NMED SSL	753	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,530	11.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,160	11.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.6	0.331	mg/kg			NMED SSL	96.6	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	46.8	0.165	mg/kg			NMED SSL	394	no
0725F1SS010-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	41.8	1.10	mg/kg			NMED SSL	23,500	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	33,600	5.28	mg/kg			NMED SSL	41,400	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.71	0.423	mg/kg			NMED SSL	7.07	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	332	0.211	mg/kg			NMED SSL	4,390	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.40	0.106	mg/kg			NMED SSL	148	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.208	0.211	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	42,000	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.07	0.211	mg/kg			NMED SSL	23.4	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.52	0.317	mg/kg			NMED SSL	3,130	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,000	3.17	mg/kg			NMED SSL	54,800	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.317	mg/kg			EPA RSL	200	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,900	10.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	514	0.317	mg/kg			NMED SSL	464	YES
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.8	0.317	mg/kg			NMED SSL	753	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,220	10.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,320	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.9	0.317	mg/kg			NMED SSL	96.6	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	44.3	0.158	mg/kg			NMED SSL	394	no
0725F1SS011-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	37.7	1.06	mg/kg			NMED SSL	23,500	no

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0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,700	5.95	mg/kg			NMED SSL	41,400	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.54	0.476	mg/kg			NMED SSL	7.07	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	290	0.238	mg/kg		J	NMED SSL	4,390	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.35	0.119	mg/kg			NMED SSL	148	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	38,800	11.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.66	0.238	mg/kg			NMED SSL	23.4	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.56	0.357	mg/kg			NMED SSL	3,130	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,200	3.57	mg/kg			NMED SSL	54,800	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.4	0.357	mg/kg			EPA RSL	200	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,300	11.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	484	0.357	mg/kg			NMED SSL	464	YES
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.0	0.357	mg/kg			NMED SSL	753	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,900	11.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,950	11.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.3	0.357	mg/kg			NMED SSL	96.6	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.1	0.178	mg/kg			NMED SSL	394	no
0725F1SS011-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	35.3	1.19	mg/kg			NMED SSL	23,500	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7429-90-5	Aluminum	35,900	6.04	mg/kg			NMED SSL	41,400	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-38-2	Arsenic	2.62	0.483	mg/kg			NMED SSL	7.07	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-39-3	Barium	428	0.242	mg/kg		J	NMED SSL	4,390	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-41-7	Beryllium	1.47	0.121	mg/kg			NMED SSL	148	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-70-2	Calcium	40,500	12.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-48-4	Cobalt	9.33	0.242	mg/kg			NMED SSL	23.4	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-50-8	Copper	8.22	0.362	mg/kg			NMED SSL	3,130	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-89-6	Iron	24,200	3.62	mg/kg			NMED SSL	54,800	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-92-1	Lead	15.5	0.362	mg/kg			EPA RSL	200	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-95-4	Magnesium	12,400	12.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-96-5	Manganese	507	0.362	mg/kg			NMED SSL	464	YES
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-02-0	Nickel	21.6	0.362	mg/kg			NMED SSL	753	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-09-7	Potassium	6,590	12.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-23-5	Sodium	2,120	12.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-47-3	Total Chromium	24.8	0.362	mg/kg			NMED SSL	96.6	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-62-2	Vanadium	44.4	0.181	mg/kg			NMED SSL	394	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-66-6	Zinc	38.4	1.21	mg/kg			NMED SSL	23,500	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	35,800	5.81	mg/kg			NMED SSL	41,400	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.63	0.465	mg/kg			NMED SSL	7.07	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	299	0.232	mg/kg			NMED SSL	4,390	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.47	0.116	mg/kg			NMED SSL	148	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.139	0.232	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	38,400	11.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.37	0.232	mg/kg			NMED SSL	23.4	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.05	0.349	mg/kg			NMED SSL	3,130	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	24,000	3.49	mg/kg			NMED SSL	54,800	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.3	0.349	mg/kg			EPA RSL	200	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,300	11.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	482	0.349	mg/kg			NMED SSL	464	YES
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.7	0.349	mg/kg			NMED SSL	753	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,580	11.6	mg/kg			NMED SSL	15,600,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,770	11.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	24.6	0.349	mg/kg			NMED SSL	96.6	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	44.0	0.174	mg/kg			NMED SSL	394	no
0725F1SS012-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	38.0	1.16	mg/kg			NMED SSL	23,500	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	37,300	5.78	mg/kg			NMED SSL	41,400	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.67	0.462	mg/kg			NMED SSL	7.07	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	327	0.231	mg/kg			NMED SSL	4,390	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.49	0.116	mg/kg			NMED SSL	148	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.178	0.231	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	42,200	11.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.68	0.231	mg/kg			NMED SSL	23.4	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.69	0.347	mg/kg			NMED SSL	3,130	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	24,600	3.47	mg/kg			NMED SSL	54,800	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.6	0.347	mg/kg			EPA RSL	200	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,900	11.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	506	0.347	mg/kg			NMED SSL	464	YES
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	22.4	0.347	mg/kg			NMED SSL	753	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,950	11.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	2,020	11.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.5	0.347	mg/kg			NMED SSL	96.6	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	45.7	0.173	mg/kg			NMED SSL	394	no
0725F1SS012-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	39.8	1.16	mg/kg			NMED SSL	23,500	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,100	5.23	mg/kg			NMED SSL	41,400	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.35	0.418	mg/kg			NMED SSL	7.07	no

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0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	336	0.209	mg/kg			NMED SSL	4,390	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.23	0.105	mg/kg			NMED SSL	148	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.167	0.209	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	46,100	10.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.15	0.209	mg/kg			NMED SSL	23.4	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.98	0.314	mg/kg			NMED SSL	3,130	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,400	3.14	mg/kg			NMED SSL	54,800	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.1	0.314	mg/kg			EPA RSL	200	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,500	10.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	515	0.314	mg/kg			NMED SSL	464	YES
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.6	0.314	mg/kg			NMED SSL	753	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,350	10.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,020	10.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	19.8	0.314	mg/kg			NMED SSL	96.6	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.1	0.157	mg/kg			NMED SSL	394	no
0725F1SS013-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	33.5	1.05	mg/kg			NMED SSL	23,500	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	31,700	5.03	mg/kg			NMED SSL	41,400	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.50	0.402	mg/kg			NMED SSL	7.07	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	326	0.201	mg/kg			NMED SSL	4,390	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.33	0.101	mg/kg			NMED SSL	148	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.194	0.201	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	41,000	10.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.63	0.201	mg/kg			NMED SSL	23.4	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.04	0.302	mg/kg			NMED SSL	3,130	no

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0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,600	3.02	mg/kg			NMED SSL	54,800	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.5	0.302	mg/kg			EPA RSL	200	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,100	10.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	498	0.302	mg/kg			NMED SSL	464	YES
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	19.7	0.302	mg/kg			NMED SSL	753	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,820	10.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,690	10.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.6	0.302	mg/kg			NMED SSL	96.6	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	40.9	0.151	mg/kg			NMED SSL	394	no
0725F1SS013-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	34.7	1.01	mg/kg			NMED SSL	23,500	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,400	5.28	mg/kg			NMED SSL	41,400	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.67	0.423	mg/kg			NMED SSL	7.07	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	340	0.211	mg/kg			NMED SSL	4,390	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.27	0.106	mg/kg			NMED SSL	148	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.179	0.211	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	48,000	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.41	0.211	mg/kg			NMED SSL	23.4	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.11	0.317	mg/kg			NMED SSL	3,130	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,400	3.17	mg/kg			NMED SSL	54,800	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.5	0.317	mg/kg			EPA RSL	200	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,400	10.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	539	0.317	mg/kg			NMED SSL	464	YES
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	19.2	0.317	mg/kg			NMED SSL	753	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,400	10.6	mg/kg			NMED SSL	15,600,000	no

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0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	2,330	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.9	0.317	mg/kg			NMED SSL	96.6	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	42.7	0.158	mg/kg			NMED SSL	394	no
0725F1SS014-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	35.6	1.06	mg/kg			NMED SSL	23,500	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,700	5.51	mg/kg			NMED SSL	41,400	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.59	0.441	mg/kg			NMED SSL	7.07	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	338	0.220	mg/kg			NMED SSL	4,390	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.18	0.110	mg/kg			NMED SSL	148	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.142	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	53,600	11.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	7.94	0.220	mg/kg			NMED SSL	23.4	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.27	0.331	mg/kg			NMED SSL	3,130	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,000	3.31	mg/kg			NMED SSL	54,800	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.9	0.331	mg/kg			EPA RSL	200	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,700	11.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	581	0.331	mg/kg			NMED SSL	464	YES
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.2	0.331	mg/kg			NMED SSL	753	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,300	11.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	2,210	11.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.7	0.331	mg/kg			NMED SSL	96.6	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	40.7	0.165	mg/kg			NMED SSL	394	no
0725F1SS014-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	31.9	1.10	mg/kg			NMED SSL	23,500	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,100	5.09	mg/kg			NMED SSL	41,400	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.41	0.407	mg/kg			NMED SSL	7.07	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	314	0.204	mg/kg			NMED SSL	4,390	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.37	0.102	mg/kg			NMED SSL	148	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.157	0.204	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	40,700	10.2	mg/kg			NMED SSL	8,850,000	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.85	0.204	mg/kg			NMED SSL	23.4	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.60	0.306	mg/kg			NMED SSL	3,130	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,400	3.06	mg/kg			NMED SSL	54,800	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.1	0.306	mg/kg			EPA RSL	200	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,700	10.2	mg/kg			NMED SSL	1,550,000	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	491	0.306	mg/kg			NMED SSL	464	YES
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.7	0.306	mg/kg			NMED SSL	753	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,100	10.2	mg/kg			NMED SSL	15,600,000	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,110	10.2	mg/kg			NMED SSL	7,820,000	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.6	0.306	mg/kg			NMED SSL	96.6	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.1	0.153	mg/kg			NMED SSL	394	no
0725F1SS015-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	47.6	1.02	mg/kg			NMED SSL	23,500	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	33,200	5.28	mg/kg			NMED SSL	41,400	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.83	0.423	mg/kg			NMED SSL	7.07	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	329	0.211	mg/kg			NMED SSL	4,390	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.40	0.106	mg/kg			NMED SSL	148	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.144	0.211	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	42,800	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.18	0.211	mg/kg			NMED SSL	23.4	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.60	0.317	mg/kg			NMED SSL	3,130	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,400	3.17	mg/kg			NMED SSL	54,800	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.5	0.317	mg/kg			EPA RSL	200	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,200	10.6	mg/kg			NMED SSL	1,550,000	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	510	0.317	mg/kg			NMED SSL	464	YES
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.1	0.317	mg/kg			NMED SSL	753	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,330	10.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,320	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	23.2	0.317	mg/kg			NMED SSL	96.6	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	42.3	0.158	mg/kg			NMED SSL	394	no
0725F1SS015-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	38.4	1.06	mg/kg			NMED SSL	23,500	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	35,500	5.44	mg/kg			NMED SSL	41,400	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.80	0.436	mg/kg			NMED SSL	7.07	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	336	0.218	mg/kg			NMED SSL	4,390	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.45	0.109	mg/kg			NMED SSL	148	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.321	0.218	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,400	10.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.43	0.218	mg/kg			NMED SSL	23.4	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.59	0.327	mg/kg			NMED SSL	3,130	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,900	3.27	mg/kg			NMED SSL	54,800	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.3	0.327	mg/kg			EPA RSL	200	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,600	10.9	mg/kg		J	NMED SSL	1,550,000	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	517	0.327	mg/kg			NMED SSL	464	YES
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.1	0.327	mg/kg			NMED SSL	753	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,080	10.9	mg/kg		J	NMED SSL	15,600,000	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,030	10.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	24.7	0.327	mg/kg			NMED SSL	96.6	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	42.0	0.163	mg/kg			NMED SSL	394	no
0725F1SS016-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	38.9	1.09	mg/kg		J	NMED SSL	23,500	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	33,300	5.36	mg/kg			NMED SSL	41,400	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.62	0.429	mg/kg			NMED SSL	7.07	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	343	0.214	mg/kg			NMED SSL	4,390	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.39	0.107	mg/kg			NMED SSL	148	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.120	0.214	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	40,300	10.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.98	0.214	mg/kg			NMED SSL	23.4	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.41	0.321	mg/kg			NMED SSL	3,130	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	23,200	3.21	mg/kg			NMED SSL	54,800	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.4	0.321	mg/kg			EPA RSL	200	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,100	10.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	504	0.321	mg/kg			NMED SSL	464	YES
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	22.2	0.321	mg/kg			NMED SSL	753	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,420	10.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,370	10.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.1	0.321	mg/kg			NMED SSL	96.6	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.8	0.161	mg/kg			NMED SSL	394	no
0725F1SS016-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	81.5	1.07	mg/kg			NMED SSL	23,500	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	30,500	5.19	mg/kg			NMED SSL	41,400	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.49	0.415	mg/kg			NMED SSL	7.07	no

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0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	320	0.208	mg/kg			NMED SSL	4,390	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.28	0.104	mg/kg			NMED SSL	148	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.105	0.208	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	47,700	10.4	mg/kg			NMED SSL	8,850,000	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.45	0.208	mg/kg			NMED SSL	23.4	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.93	0.312	mg/kg			NMED SSL	3,130	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,400	3.12	mg/kg			NMED SSL	54,800	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.3	0.312	mg/kg			EPA RSL	200	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,200	10.4	mg/kg			NMED SSL	1,550,000	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	539	0.312	mg/kg			NMED SSL	464	YES
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	19.4	0.312	mg/kg			NMED SSL	753	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,840	10.4	mg/kg			NMED SSL	15,600,000	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	713	10.4	mg/kg			NMED SSL	7,820,000	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.4	0.312	mg/kg			NMED SSL	96.6	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.3	0.156	mg/kg			NMED SSL	394	no
0725F1SS017-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	34.5	1.04	mg/kg			NMED SSL	23,500	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7429-90-5	Aluminum	29,900	5.63	mg/kg			NMED SSL	41,400	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-38-2	Arsenic	2.83	0.451	mg/kg			NMED SSL	7.07	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-39-3	Barium	327	0.225	mg/kg			NMED SSL	4,390	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-41-7	Beryllium	1.29	0.113	mg/kg			NMED SSL	148	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-70-2	Calcium	49,500	11.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-48-4	Cobalt	8.44	0.225	mg/kg			NMED SSL	23.4	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-50-8	Copper	8.08	0.338	mg/kg			NMED SSL	3,130	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-89-6	Iron	21,200	3.38	mg/kg			NMED SSL	54,800	no

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0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-92-1	Lead	14.7	0.338	mg/kg			EPA RSL	200	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-95-4	Magnesium	11,000	11.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7439-96-5	Manganese	560	0.338	mg/kg			NMED SSL	464	YES
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-02-0	Nickel	19.3	0.338	mg/kg			NMED SSL	753	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-09-7	Potassium	5,490	11.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-23-5	Sodium	707	11.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.7	0.338	mg/kg			NMED SSL	96.6	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-62-2	Vanadium	39.2	0.169	mg/kg			NMED SSL	394	no
0725F1SS017-0.0-0.5DSO-DUP	8/27/2014	SW6010B	7440-66-6	Zinc	34.1	1.13	mg/kg			NMED SSL	23,500	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	31,700	5.83	mg/kg			NMED SSL	41,400	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.53	0.466	mg/kg			NMED SSL	7.07	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	312	0.233	mg/kg			NMED SSL	4,390	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.29	0.117	mg/kg			NMED SSL	148	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.266	0.233	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	46,900	11.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.53	0.233	mg/kg			NMED SSL	23.4	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.50	0.350	mg/kg			NMED SSL	3,130	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,300	3.50	mg/kg			NMED SSL	54,800	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.8	0.350	mg/kg			EPA RSL	200	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,400	11.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	560	0.350	mg/kg			NMED SSL	464	YES
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.9	0.350	mg/kg			NMED SSL	753	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,760	11.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,570	11.7	mg/kg			NMED SSL	7,820,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.9	0.350	mg/kg			NMED SSL	96.6	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.3	0.175	mg/kg			NMED SSL	394	no
0725F1SS017-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	33.7	1.17	mg/kg			NMED SSL	23,500	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	31,000	5.11	mg/kg			NMED SSL	41,400	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.65	0.409	mg/kg			NMED SSL	7.07	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	321	0.204	mg/kg			NMED SSL	4,390	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.34	0.102	mg/kg			NMED SSL	148	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.301	0.204	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	42,100	10.2	mg/kg			NMED SSL	8,850,000	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.73	0.204	mg/kg			NMED SSL	23.4	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.30	0.306	mg/kg			NMED SSL	3,130	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,900	3.06	mg/kg			NMED SSL	54,800	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.5	0.306	mg/kg			EPA RSL	200	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,600	10.2	mg/kg			NMED SSL	1,550,000	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	522	0.306	mg/kg			NMED SSL	464	YES
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	19.7	0.306	mg/kg			NMED SSL	753	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,880	10.2	mg/kg			NMED SSL	15,600,000	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	964	10.2	mg/kg			NMED SSL	7,820,000	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.0	0.306	mg/kg			NMED SSL	96.6	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	38.9	0.153	mg/kg			NMED SSL	394	no
0725F1SS018-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	35.2	1.02	mg/kg			NMED SSL	23,500	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	28,000	5.38	mg/kg			NMED SSL	41,400	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.73	0.431	mg/kg			NMED SSL	7.07	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	331	0.215	mg/kg			NMED SSL	4,390	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.22	0.108	mg/kg			NMED SSL	148	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.230	0.215	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	44,300	10.8	mg/kg			NMED SSL	8,850,000	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	7.96	0.215	mg/kg			NMED SSL	23.4	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.41	0.323	mg/kg			NMED SSL	3,130	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	19,900	3.23	mg/kg			NMED SSL	54,800	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.6	0.323	mg/kg			EPA RSL	200	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,700	10.8	mg/kg			NMED SSL	1,550,000	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	534	0.323	mg/kg			NMED SSL	464	YES
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	17.6	0.323	mg/kg			NMED SSL	753	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,030	10.8	mg/kg			NMED SSL	15,600,000	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,290	10.8	mg/kg			NMED SSL	7,820,000	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	20.0	0.323	mg/kg			NMED SSL	96.6	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	36.2	0.161	mg/kg			NMED SSL	394	no
0725F1SS018-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	31.2	1.08	mg/kg			NMED SSL	23,500	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	50,200	26.0	mg/kg			NMED SSL	41,400	YES
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	4.40	2.08	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	351	1.04	mg/kg			NMED SSL	4,390	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.73	0.520	mg/kg	J	J	NMED SSL	148	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	36,000	52.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.7	1.04	mg/kg			NMED SSL	23.4	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	11.2	1.56	mg/kg			NMED SSL	3,130	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	29,400	15.6	mg/kg			NMED SSL	54,800	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	17.2	1.56	mg/kg			EPA RSL	200	no

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0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	14,300	52.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	509	1.56	mg/kg			NMED SSL	464	YES
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	24.3	1.56	mg/kg			NMED SSL	753	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	10,000	52.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	4,940	52.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	30.9	1.56	mg/kg			NMED SSL	96.6	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	52.6	0.779	mg/kg			NMED SSL	394	no
0725F1SS019-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	46.0	5.20	mg/kg			NMED SSL	23,500	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	48,800	27.1	mg/kg			NMED SSL	41,400	YES
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	3.48	2.17	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	356	1.08	mg/kg			NMED SSL	4,390	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.68	0.541	mg/kg	J	J	NMED SSL	148	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	38,000	54.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.3	1.08	mg/kg			NMED SSL	23.4	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	10.9	1.62	mg/kg			NMED SSL	3,130	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	28,400	16.2	mg/kg			NMED SSL	54,800	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	16.8	1.62	mg/kg			EPA RSL	200	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	14,000	54.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	515	1.62	mg/kg			NMED SSL	464	YES
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	23.6	1.62	mg/kg			NMED SSL	753	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	9,600	54.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	4,450	54.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	30.2	1.62	mg/kg			NMED SSL	96.6	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	50.9	0.812	mg/kg			NMED SSL	394	no

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0725F1SS019-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	46.3	5.41	mg/kg			NMED SSL	23,500	no
0725F1SS019-0.5-1.0DSO	8/27/2014	SW7471A	7439-97-6	Mercury	0.0242	0.0218	mg/kg	J	J	NMED SSL	20.7	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	43,800	26.0	mg/kg			NMED SSL	41,400	YES
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.60	2.08	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	338	1.04	mg/kg			NMED SSL	4,390	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.49	0.519	mg/kg	J	J	NMED SSL	148	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	39,600	51.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	9.46	1.04	mg/kg			NMED SSL	23.4	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.04	1.56	mg/kg			NMED SSL	3,130	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	25,800	15.6	mg/kg			NMED SSL	54,800	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	15.1	1.56	mg/kg			EPA RSL	200	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,900	51.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	499	1.56	mg/kg			NMED SSL	464	YES
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	21.7	1.56	mg/kg			NMED SSL	753	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,360	51.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,900	51.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	27.4	1.56	mg/kg			NMED SSL	96.6	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	46.7	0.779	mg/kg			NMED SSL	394	no
0725F1SS020-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	40.4	5.19	mg/kg			NMED SSL	23,500	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	30,600	5.33	mg/kg			NMED SSL	41,400	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.64	0.426	mg/kg			NMED SSL	7.07	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	354	0.213	mg/kg			NMED SSL	4,390	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.31	0.107	mg/kg			NMED SSL	148	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.329	0.213	mg/kg	J	J	NMED SSL	70.5	no

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0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	37,900	10.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.36	0.213	mg/kg			NMED SSL	23.4	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.24	0.320	mg/kg			NMED SSL	3,130	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,300	3.20	mg/kg			NMED SSL	54,800	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.3	0.320	mg/kg			EPA RSL	200	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,100	10.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	478	0.320	mg/kg			NMED SSL	464	YES
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.9	0.320	mg/kg			NMED SSL	753	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,850	10.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,790	10.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.2	0.320	mg/kg			NMED SSL	96.6	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.5	0.160	mg/kg			NMED SSL	394	no
0725F1SS020-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	34.2	1.07	mg/kg			NMED SSL	23,500	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	34,900	5.28	mg/kg			NMED SSL	41,400	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.58	0.422	mg/kg			NMED SSL	7.07	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	347	0.211	mg/kg			NMED SSL	4,390	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.36	0.106	mg/kg			NMED SSL	148	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.354	0.211	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	41,900	10.6	mg/kg			NMED SSL	8,850,000	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.86	0.211	mg/kg			NMED SSL	23.4	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.08	0.317	mg/kg			NMED SSL	3,130	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,400	3.17	mg/kg			NMED SSL	54,800	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.9	0.317	mg/kg			EPA RSL	200	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,100	10.6	mg/kg			NMED SSL	1,550,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	513	0.317	mg/kg			NMED SSL	464	YES
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.0	0.317	mg/kg			NMED SSL	753	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,710	10.6	mg/kg			NMED SSL	15,600,000	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,250	10.6	mg/kg			NMED SSL	7,820,000	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	23.7	0.317	mg/kg			NMED SSL	96.6	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.9	0.158	mg/kg			NMED SSL	394	no
0725F1SS021-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	36.4	1.06	mg/kg			NMED SSL	23,500	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	36,400	5.43	mg/kg			NMED SSL	41,400	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.53	0.434	mg/kg			NMED SSL	7.07	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	340	0.217	mg/kg			NMED SSL	4,390	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.36	0.109	mg/kg			NMED SSL	148	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.359	0.217	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	44,000	10.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.96	0.217	mg/kg			NMED SSL	23.4	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.80	0.326	mg/kg			NMED SSL	3,130	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,900	3.26	mg/kg			NMED SSL	54,800	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.7	0.326	mg/kg			EPA RSL	200	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,600	10.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	531	0.326	mg/kg			NMED SSL	464	YES
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.3	0.326	mg/kg			NMED SSL	753	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	7,090	10.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,790	10.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	25.1	0.326	mg/kg			NMED SSL	96.6	no
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	44.0	0.163	mg/kg			NMED SSL	394	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS021-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	37.1	1.09	mg/kg			NMED SSL	23,500	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7429-90-5	Aluminum	33,900	5.04	mg/kg			NMED SSL	41,400	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-38-2	Arsenic	2.80	0.403	mg/kg			NMED SSL	7.07	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-39-3	Barium	334	0.202	mg/kg			NMED SSL	4,390	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-41-7	Beryllium	1.34	0.101	mg/kg			NMED SSL	148	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-43-9	Cadmium	0.328	0.202	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-70-2	Calcium	44,300	10.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-48-4	Cobalt	8.70	0.202	mg/kg			NMED SSL	23.4	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-50-8	Copper	7.68	0.302	mg/kg			NMED SSL	3,130	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-89-6	Iron	22,100	3.02	mg/kg			NMED SSL	54,800	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-92-1	Lead	13.4	0.302	mg/kg			EPA RSL	200	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-95-4	Magnesium	12,100	10.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7439-96-5	Manganese	530	0.302	mg/kg			NMED SSL	464	YES
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-02-0	Nickel	19.6	0.302	mg/kg			NMED SSL	753	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-09-7	Potassium	6,390	10.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-23-5	Sodium	1,820	10.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-47-3	Total Chromium	23.9	0.302	mg/kg			NMED SSL	96.6	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-62-2	Vanadium	40.7	0.151	mg/kg			NMED SSL	394	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	SW6010B	7440-66-6	Zinc	35.1	1.01	mg/kg			NMED SSL	23,500	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	29,800	4.87	mg/kg			NMED SSL	41,400	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.66	0.389	mg/kg			NMED SSL	7.07	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	347	0.195	mg/kg			NMED SSL	4,390	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.21	0.0973	mg/kg			NMED SSL	148	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.273	0.195	mg/kg	J	J	NMED SSL	70.5	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	49,800	9.73	mg/kg			NMED SSL	8,850,000	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.07	0.195	mg/kg			NMED SSL	23.4	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	7.56	0.292	mg/kg			NMED SSL	3,130	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	20,300	2.92	mg/kg			NMED SSL	54,800	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.1	0.292	mg/kg			EPA RSL	200	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,300	9.73	mg/kg			NMED SSL	1,550,000	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	575	0.292	mg/kg			NMED SSL	464	YES
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.0	0.292	mg/kg			NMED SSL	753	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,730	9.73	mg/kg			NMED SSL	15,600,000	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	919	9.73	mg/kg			NMED SSL	7,820,000	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.292	mg/kg			NMED SSL	96.6	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	38.1	0.146	mg/kg			NMED SSL	394	no
0725F1SS022-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	32.4	0.973	mg/kg			NMED SSL	23,500	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	25,600	4.85	mg/kg			NMED SSL	41,400	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.60	0.388	mg/kg			NMED SSL	7.07	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	330	0.194	mg/kg			NMED SSL	4,390	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.06	0.0971	mg/kg			NMED SSL	148	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.255	0.194	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	49,300	9.71	mg/kg			NMED SSL	8,850,000	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	7.16	0.194	mg/kg			NMED SSL	23.4	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	6.45	0.291	mg/kg			NMED SSL	3,130	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	18,000	2.91	mg/kg			NMED SSL	54,800	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	12.0	0.291	mg/kg			EPA RSL	200	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	10,000	9.71	mg/kg			NMED SSL	1,550,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	564	0.291	mg/kg			NMED SSL	464	YES
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	15.7	0.291	mg/kg			NMED SSL	753	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	4,570	9.71	mg/kg			NMED SSL	15,600,000	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	1,300	9.71	mg/kg			NMED SSL	7,820,000	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	18.5	0.291	mg/kg			NMED SSL	96.6	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	35.5	0.146	mg/kg			NMED SSL	394	no
0725F1SS022-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	28.3	0.971	mg/kg			NMED SSL	23,500	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,200	5.24	mg/kg			NMED SSL	41,400	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.86	0.419	mg/kg			NMED SSL	7.07	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	350	0.210	mg/kg			NMED SSL	4,390	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.37	0.105	mg/kg			NMED SSL	148	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.311	0.210	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	41,700	10.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.88	0.210	mg/kg			NMED SSL	23.4	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.59	0.315	mg/kg			NMED SSL	3,130	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	22,400	3.15	mg/kg			NMED SSL	54,800	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	14.7	0.315	mg/kg			EPA RSL	200	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	12,000	10.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	510	0.315	mg/kg			NMED SSL	464	YES
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	20.1	0.315	mg/kg			NMED SSL	753	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	6,210	10.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,410	10.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.6	0.315	mg/kg			NMED SSL	96.6	no
0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	41.5	0.157	mg/kg			NMED SSL	394	no

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0725F1SS023-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	36.5	1.05	mg/kg			NMED SSL	23,500	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	32,100	5.37	mg/kg			NMED SSL	41,400	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.38	0.429	mg/kg			NMED SSL	7.07	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	374	0.215	mg/kg			NMED SSL	4,390	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.28	0.107	mg/kg			NMED SSL	148	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-43-9	Cadmium	0.276	0.215	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	41,000	10.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	8.35	0.215	mg/kg			NMED SSL	23.4	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	8.07	0.322	mg/kg			NMED SSL	3,130	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	21,100	3.22	mg/kg			NMED SSL	54,800	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	13.4	0.322	mg/kg			EPA RSL	200	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	11,500	10.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	525	0.322	mg/kg			NMED SSL	464	YES
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	18.6	0.322	mg/kg			NMED SSL	753	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	5,910	10.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,210	10.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	22.6	0.322	mg/kg			NMED SSL	96.6	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	39.9	0.161	mg/kg			NMED SSL	394	no
0725F1SS023-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	33.5	1.07	mg/kg			NMED SSL	23,500	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	49,500	27.5	mg/kg		J	NMED SSL	41,400	YES
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	3.18	2.20	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-39-3	Barium	385	1.10	mg/kg			NMED SSL	4,390	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.70	0.550	mg/kg	J	J	NMED SSL	148	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-70-2	Calcium	38,900	55.0	mg/kg			NMED SSL	8,850,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.7	1.10	mg/kg			NMED SSL	23.4	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.92	1.65	mg/kg			NMED SSL	3,130	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7439-89-6	Iron	29,400	16.5	mg/kg			NMED SSL	54,800	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7439-92-1	Lead	16.7	1.65	mg/kg			EPA RSL	200	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	14,500	55.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7439-96-5	Manganese	509	1.65	mg/kg			NMED SSL	464	YES
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-02-0	Nickel	24.8	1.65	mg/kg			NMED SSL	753	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,870	55.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,820	55.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	31.0	1.65	mg/kg			NMED SSL	96.6	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	51.3	0.825	mg/kg			NMED SSL	394	no
0725F1SS024-0.0-0.5DSO	8/27/2014	SW6010B	7440-66-6	Zinc	45.0	5.50	mg/kg			NMED SSL	23,500	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7429-90-5	Aluminum	46,800	25.1	mg/kg		J	NMED SSL	41,400	YES
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-38-2	Arsenic	2.92	2.00	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-39-3	Barium	336	1.00	mg/kg			NMED SSL	4,390	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-41-7	Beryllium	1.68	0.501	mg/kg	J	J	NMED SSL	148	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-70-2	Calcium	35,900	50.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-48-4	Cobalt	10.4	1.00	mg/kg			NMED SSL	23.4	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-50-8	Copper	9.75	1.50	mg/kg			NMED SSL	3,130	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7439-89-6	Iron	28,000	15.0	mg/kg			NMED SSL	54,800	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7439-92-1	Lead	17.1	1.50	mg/kg			EPA RSL	200	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7439-95-4	Magnesium	14,000	50.1	mg/kg		J	NMED SSL	1,550,000	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7439-96-5	Manganese	486	1.50	mg/kg			NMED SSL	464	YES
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-02-0	Nickel	23.7	1.50	mg/kg			NMED SSL	753	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-09-7	Potassium	8,480	50.1	mg/kg		J	NMED SSL	15,600,000	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-23-5	Sodium	3,210	50.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-47-3	Total Chromium	29.3	1.50	mg/kg			NMED SSL	96.6	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-62-2	Vanadium	48.1	0.752	mg/kg			NMED SSL	394	no
0725F1SS024-0.5-1.0DSO	8/27/2014	SW6010B	7440-66-6	Zinc	42.8	5.01	mg/kg		J	NMED SSL	23,500	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	36,000	5.44	mg/kg			NMED SSL	41,400	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.56	0.436	mg/kg			NMED SSL	7.07	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	323	0.218	mg/kg			NMED SSL	4,390	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.40	0.109	mg/kg			NMED SSL	148	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,900	10.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.52	0.218	mg/kg			NMED SSL	23.4	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.51	0.327	mg/kg			NMED SSL	3,130	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,800	3.27	mg/kg			NMED SSL	54,800	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.0	0.327	mg/kg			EPA RSL	200	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,400	10.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	480	0.327	mg/kg			NMED SSL	464	YES
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.5	0.327	mg/kg			NMED SSL	753	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,130	10.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,290	10.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.5	0.327	mg/kg			NMED SSL	96.6	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.9	0.163	mg/kg			NMED SSL	394	no
0725F1SS025-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.9	1.09	mg/kg			NMED SSL	23,500	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	36,800	5.68	mg/kg			NMED SSL	41,400	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.64	0.455	mg/kg			NMED SSL	7.07	no

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0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	316	0.227	mg/kg			NMED SSL	4,390	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.48	0.114	mg/kg			NMED SSL	148	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,400	11.4	mg/kg			NMED SSL	8,850,000	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.90	0.227	mg/kg			NMED SSL	23.4	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.80	0.341	mg/kg			NMED SSL	3,130	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,600	3.41	mg/kg			NMED SSL	54,800	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.341	mg/kg			EPA RSL	200	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	13,000	11.4	mg/kg			NMED SSL	1,550,000	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	487	0.341	mg/kg			NMED SSL	464	YES
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	22.3	0.341	mg/kg			NMED SSL	753	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,200	11.4	mg/kg		J	NMED SSL	15,600,000	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,700	11.4	mg/kg			NMED SSL	7,820,000	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	25.7	0.341	mg/kg			NMED SSL	96.6	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	43.7	0.170	mg/kg			NMED SSL	394	no
0725F1SS025-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	39.4	1.14	mg/kg			NMED SSL	23,500	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	43,500	27.7	mg/kg			NMED SSL	41,400	YES
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.94	2.22	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	345	1.11	mg/kg			NMED SSL	4,390	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.66	0.555	mg/kg	J	J	NMED SSL	148	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,900	55.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	10.7	1.11	mg/kg			NMED SSL	23.4	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	9.93	1.66	mg/kg			NMED SSL	3,130	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	28,200	16.6	mg/kg			NMED SSL	54,800	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	17.5	1.66	mg/kg			EPA RSL	200	no

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0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	14,500	55.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	515	1.66	mg/kg			NMED SSL	464	YES
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	24.2	1.66	mg/kg			NMED SSL	753	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	8,450	55.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	2,380	55.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	29.2	1.66	mg/kg			NMED SSL	96.6	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	48.1	0.832	mg/kg			NMED SSL	394	no
0725F1SS026-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	44.2	5.55	mg/kg			NMED SSL	23,500	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	35,700	5.53	mg/kg			NMED SSL	41,400	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.95	0.443	mg/kg			NMED SSL	7.07	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	331	0.221	mg/kg			NMED SSL	4,390	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.43	0.111	mg/kg			NMED SSL	148	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	34,400	11.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.57	0.221	mg/kg			NMED SSL	23.4	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	9.13	0.332	mg/kg			NMED SSL	3,130	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,100	3.32	mg/kg			NMED SSL	54,800	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.332	mg/kg			EPA RSL	200	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,400	11.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	449	0.332	mg/kg			NMED SSL	464	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.7	0.332	mg/kg			NMED SSL	753	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,200	11.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	2,430	11.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.2	0.332	mg/kg			NMED SSL	96.6	no
0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.8	0.166	mg/kg			NMED SSL	394	no

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0725F1SS026-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	38.2	1.11	mg/kg			NMED SSL	23,500	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	39,700	23.8	mg/kg			NMED SSL	41,400	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.66	1.90	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	343	0.951	mg/kg			NMED SSL	4,390	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.55	0.475	mg/kg	J	J	NMED SSL	148	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	42,900	47.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	10.2	0.951	mg/kg			NMED SSL	23.4	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.88	1.43	mg/kg			NMED SSL	3,130	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	26,600	14.3	mg/kg			NMED SSL	54,800	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	16.1	1.43	mg/kg			EPA RSL	200	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	13,500	47.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	517	1.43	mg/kg			NMED SSL	464	YES
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	23.1	1.43	mg/kg			NMED SSL	753	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,900	47.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,080	47.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	26.6	1.43	mg/kg			NMED SSL	96.6	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	45.0	0.713	mg/kg			NMED SSL	394	no
0725F1SS027-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	39.5	4.75	mg/kg			NMED SSL	23,500	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7429-90-5	Aluminum	42,600	27.0	mg/kg			NMED SSL	41,400	YES
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-38-2	Arsenic	3.65	2.16	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-39-3	Barium	329	1.08	mg/kg			NMED SSL	4,390	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-41-7	Beryllium	1.56	0.540	mg/kg	J	J	NMED SSL	148	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-70-2	Calcium	40,600	54.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-48-4	Cobalt	10.0	1.08	mg/kg			NMED SSL	23.4	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-50-8	Copper	8.74	1.62	mg/kg			NMED SSL	3,130	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7439-89-6	Iron	26,900	16.2	mg/kg			NMED SSL	54,800	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7439-92-1	Lead	15.2	1.62	mg/kg			EPA RSL	200	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7439-95-4	Magnesium	13,600	54.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7439-96-5	Manganese	494	1.62	mg/kg			NMED SSL	464	YES
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-02-0	Nickel	23.1	1.62	mg/kg			NMED SSL	753	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-09-7	Potassium	7,540	54.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-23-5	Sodium	1,070	54.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-47-3	Total Chromium	27.8	1.62	mg/kg			NMED SSL	96.6	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-62-2	Vanadium	45.9	0.811	mg/kg			NMED SSL	394	no
0725F1SS027-0.0-0.5DSO-DUP	8/28/2014	SW6010B	7440-66-6	Zinc	40.8	5.40	mg/kg			NMED SSL	23,500	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	34,300	5.15	mg/kg			NMED SSL	41,400	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.86	0.412	mg/kg			NMED SSL	7.07	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	330	0.206	mg/kg			NMED SSL	4,390	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.42	0.103	mg/kg			NMED SSL	148	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-43-9	Cadmium	0.121	0.206	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	38,300	10.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.49	0.206	mg/kg			NMED SSL	23.4	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.53	0.309	mg/kg			NMED SSL	3,130	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,300	3.09	mg/kg			NMED SSL	54,800	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.2	0.309	mg/kg			EPA RSL	200	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,300	10.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	471	0.309	mg/kg			NMED SSL	464	YES
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.3	0.309	mg/kg			NMED SSL	753	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,890	10.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,170	10.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.8	0.309	mg/kg			NMED SSL	96.6	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	40.9	0.155	mg/kg			NMED SSL	394	no
0725F1SS027-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.6	1.03	mg/kg			NMED SSL	23,500	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	40,900	24.6	mg/kg			NMED SSL	41,400	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.19	1.97	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	337	0.984	mg/kg			NMED SSL	4,390	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.53	0.492	mg/kg	J	J	NMED SSL	148	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	39,000	49.2	mg/kg			NMED SSL	8,850,000	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.85	0.984	mg/kg			NMED SSL	23.4	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.97	1.48	mg/kg			NMED SSL	3,130	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	26,100	14.8	mg/kg			NMED SSL	54,800	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	15.2	1.48	mg/kg			EPA RSL	200	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,900	49.2	mg/kg			NMED SSL	1,550,000	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	495	1.48	mg/kg			NMED SSL	464	YES
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.8	1.48	mg/kg			NMED SSL	753	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,610	49.2	mg/kg			NMED SSL	15,600,000	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,020	49.2	mg/kg			NMED SSL	7,820,000	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	26.5	1.48	mg/kg			NMED SSL	96.6	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	44.7	0.738	mg/kg			NMED SSL	394	no
0725F1SS028-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	40.7	4.92	mg/kg			NMED SSL	23,500	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	30,000	4.87	mg/kg			NMED SSL	41,400	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.90	0.390	mg/kg			NMED SSL	7.07	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	324	0.195	mg/kg			NMED SSL	4,390	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.33	0.0974	mg/kg			NMED SSL	148	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-43-9	Cadmium	0.108	0.195	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,000	9.74	mg/kg			NMED SSL	8,850,000	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	8.66	0.195	mg/kg			NMED SSL	23.4	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.42	0.292	mg/kg			NMED SSL	3,130	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	21,600	2.92	mg/kg			NMED SSL	54,800	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.1	0.292	mg/kg			EPA RSL	200	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	11,000	9.74	mg/kg			NMED SSL	1,550,000	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	488	0.292	mg/kg			NMED SSL	464	YES
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	19.3	0.292	mg/kg			NMED SSL	753	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	5,960	9.74	mg/kg			NMED SSL	15,600,000	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,270	9.74	mg/kg			NMED SSL	7,820,000	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	20.8	0.292	mg/kg			NMED SSL	96.6	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	38.7	0.146	mg/kg			NMED SSL	394	no
0725F1SS028-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	34.8	0.974	mg/kg			NMED SSL	23,500	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	35,800	5.93	mg/kg			NMED SSL	41,400	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.89	0.474	mg/kg			NMED SSL	7.07	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	332	0.237	mg/kg			NMED SSL	4,390	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.46	0.119	mg/kg			NMED SSL	148	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,000	11.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.49	0.237	mg/kg			NMED SSL	23.4	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.48	0.356	mg/kg			NMED SSL	3,130	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,200	3.56	mg/kg			NMED SSL	54,800	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.9	0.356	mg/kg			EPA RSL	200	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,100	11.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	481	0.356	mg/kg			NMED SSL	464	YES
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.4	0.356	mg/kg			NMED SSL	753	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,830	11.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,260	11.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.0	0.356	mg/kg			NMED SSL	96.6	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	43.1	0.178	mg/kg			NMED SSL	394	no
0725F1SS029-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.7	1.19	mg/kg			NMED SSL	23,500	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	36,300	5.63	mg/kg			NMED SSL	41,400	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.07	0.451	mg/kg			NMED SSL	7.07	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	338	0.225	mg/kg			NMED SSL	4,390	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.50	0.113	mg/kg			NMED SSL	148	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-43-9	Cadmium	0.116	0.225	mg/kg	J	J	NMED SSL	70.5	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	39,000	11.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.65	0.225	mg/kg			NMED SSL	23.4	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.43	0.338	mg/kg			NMED SSL	3,130	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,300	3.38	mg/kg			NMED SSL	54,800	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.9	0.338	mg/kg			EPA RSL	200	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,400	11.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	491	0.338	mg/kg			NMED SSL	464	YES
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.9	0.338	mg/kg			NMED SSL	753	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,040	11.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,650	11.3	mg/kg			NMED SSL	7,820,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.4	0.338	mg/kg			NMED SSL	96.6	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.9	0.169	mg/kg			NMED SSL	394	no
0725F1SS029-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.5	1.13	mg/kg			NMED SSL	23,500	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	34,900	5.63	mg/kg			NMED SSL	41,400	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.66	0.451	mg/kg			NMED SSL	7.07	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	316	0.225	mg/kg			NMED SSL	4,390	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.41	0.113	mg/kg			NMED SSL	148	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	37,800	11.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.19	0.225	mg/kg			NMED SSL	23.4	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.29	0.338	mg/kg			NMED SSL	3,130	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,400	3.38	mg/kg			NMED SSL	54,800	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.338	mg/kg			EPA RSL	200	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	11,900	11.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	445	0.338	mg/kg			NMED SSL	464	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	20.6	0.338	mg/kg			NMED SSL	753	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,560	11.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,020	11.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.4	0.338	mg/kg			NMED SSL	96.6	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	41.3	0.169	mg/kg			NMED SSL	394	no
0725F1SS030-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	36.6	1.13	mg/kg			NMED SSL	23,500	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	35,600	6.35	mg/kg			NMED SSL	41,400	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.48	0.508	mg/kg			NMED SSL	7.07	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	329	0.254	mg/kg			NMED SSL	4,390	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.41	0.127	mg/kg			NMED SSL	148	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	38,600	12.7	mg/kg			NMED SSL	8,850,000	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.35	0.254	mg/kg			NMED SSL	23.4	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.24	0.381	mg/kg			NMED SSL	3,130	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,500	3.81	mg/kg			NMED SSL	54,800	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.2	0.381	mg/kg			EPA RSL	200	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,100	12.7	mg/kg			NMED SSL	1,550,000	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	469	0.381	mg/kg			NMED SSL	464	YES
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	20.8	0.381	mg/kg			NMED SSL	753	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,540	12.7	mg/kg			NMED SSL	15,600,000	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,290	12.7	mg/kg			NMED SSL	7,820,000	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.9	0.381	mg/kg			NMED SSL	96.6	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.1	0.190	mg/kg			NMED SSL	394	no
0725F1SS030-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	36.6	1.27	mg/kg			NMED SSL	23,500	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	34,900	5.75	mg/kg			NMED SSL	41,400	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.89	0.460	mg/kg			NMED SSL	7.07	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	320	0.230	mg/kg			NMED SSL	4,390	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.42	0.115	mg/kg			NMED SSL	148	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	39,500	11.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.48	0.230	mg/kg			NMED SSL	23.4	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.59	0.345	mg/kg			NMED SSL	3,130	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,700	3.45	mg/kg			NMED SSL	54,800	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.345	mg/kg			EPA RSL	200	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,300	11.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	487	0.345	mg/kg			NMED SSL	464	YES

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.3	0.345	mg/kg			NMED SSL	753	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,790	11.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,180	11.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.0	0.345	mg/kg			NMED SSL	96.6	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.8	0.173	mg/kg			NMED SSL	394	no
0725F1SS031-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.9	1.15	mg/kg			NMED SSL	23,500	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	31,300	5.67	mg/kg			NMED SSL	41,400	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.87	0.453	mg/kg			NMED SSL	7.07	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	341	0.227	mg/kg			NMED SSL	4,390	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.30	0.113	mg/kg			NMED SSL	148	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	47,700	11.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	8.73	0.227	mg/kg			NMED SSL	23.4	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	7.93	0.340	mg/kg			NMED SSL	3,130	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	22,000	3.40	mg/kg			NMED SSL	54,800	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.1	0.340	mg/kg			EPA RSL	200	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	11,000	11.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	548	0.340	mg/kg			NMED SSL	464	YES
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	19.4	0.340	mg/kg			NMED SSL	753	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	5,620	11.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,600	11.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	21.5	0.340	mg/kg			NMED SSL	96.6	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	41.6	0.170	mg/kg			NMED SSL	394	no
0725F1SS031-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	33.3	1.13	mg/kg			NMED SSL	23,500	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	36,500	5.52	mg/kg			NMED SSL	41,400	no

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0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.79	0.441	mg/kg			NMED SSL	7.07	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	330	0.221	mg/kg			NMED SSL	4,390	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.43	0.110	mg/kg			NMED SSL	148	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	41,400	11.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.64	0.221	mg/kg			NMED SSL	23.4	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.65	0.331	mg/kg			NMED SSL	3,130	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,200	3.31	mg/kg			NMED SSL	54,800	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.5	0.331	mg/kg			EPA RSL	200	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,600	11.0	mg/kg		J	NMED SSL	1,550,000	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	504	0.331	mg/kg			NMED SSL	464	YES
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.6	0.331	mg/kg			NMED SSL	753	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,190	11.0	mg/kg		J	NMED SSL	15,600,000	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	865	11.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	24.9	0.331	mg/kg			NMED SSL	96.6	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	43.5	0.165	mg/kg			NMED SSL	394	no
0725F1SS032-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	38.0	1.10	mg/kg			NMED SSL	23,500	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	31,900	5.96	mg/kg			NMED SSL	41,400	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.45	0.477	mg/kg			NMED SSL	7.07	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	311	0.239	mg/kg			NMED SSL	4,390	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.31	0.119	mg/kg			NMED SSL	148	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	42,500	11.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	8.87	0.239	mg/kg			NMED SSL	23.4	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.03	0.358	mg/kg			NMED SSL	3,130	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	21,800	3.58	mg/kg			NMED SSL	54,800	no

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0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	13.7	0.358	mg/kg			EPA RSL	200	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	11,500	11.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	483	0.358	mg/kg			NMED SSL	464	YES
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	19.7	0.358	mg/kg			NMED SSL	753	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	5,930	11.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,090	11.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	22.3	0.358	mg/kg			NMED SSL	96.6	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	39.4	0.179	mg/kg			NMED SSL	394	no
0725F1SS032-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	34.5	1.19	mg/kg			NMED SSL	23,500	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	33,900	5.02	mg/kg			NMED SSL	41,400	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.95	0.401	mg/kg			NMED SSL	7.07	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	317	0.201	mg/kg			NMED SSL	4,390	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.39	0.100	mg/kg			NMED SSL	148	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	39,800	10.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.38	0.201	mg/kg			NMED SSL	23.4	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.60	0.301	mg/kg			NMED SSL	3,130	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,300	3.01	mg/kg			NMED SSL	54,800	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.301	mg/kg			EPA RSL	200	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,000	10.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	489	0.301	mg/kg			NMED SSL	464	YES
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.1	0.301	mg/kg			NMED SSL	753	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,750	10.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	932	10.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.4	0.301	mg/kg			NMED SSL	96.6	no

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0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	41.3	0.150	mg/kg			NMED SSL	394	no
0725F1SS033-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.0	1.00	mg/kg			NMED SSL	23,500	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	29,700	5.25	mg/kg			NMED SSL	41,400	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.80	0.420	mg/kg			NMED SSL	7.07	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	341	0.210	mg/kg			NMED SSL	4,390	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.28	0.105	mg/kg			NMED SSL	148	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	45,400	10.5	mg/kg			NMED SSL	8,850,000	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	8.71	0.210	mg/kg			NMED SSL	23.4	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.16	0.315	mg/kg			NMED SSL	3,130	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	21,300	3.15	mg/kg			NMED SSL	54,800	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.0	0.315	mg/kg			EPA RSL	200	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	10,900	10.5	mg/kg			NMED SSL	1,550,000	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	525	0.315	mg/kg			NMED SSL	464	YES
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	19.3	0.315	mg/kg			NMED SSL	753	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	5,470	10.5	mg/kg			NMED SSL	15,600,000	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,350	10.5	mg/kg			NMED SSL	7,820,000	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	21.0	0.315	mg/kg			NMED SSL	96.6	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	38.7	0.157	mg/kg			NMED SSL	394	no
0725F1SS033-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	32.4	1.05	mg/kg			NMED SSL	23,500	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	34,000	5.57	mg/kg			NMED SSL	41,400	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.99	0.446	mg/kg			NMED SSL	7.07	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	322	0.223	mg/kg			NMED SSL	4,390	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.42	0.111	mg/kg			NMED SSL	148	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	40,900	11.1	mg/kg			NMED SSL	8,850,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.59	0.223	mg/kg			NMED SSL	23.4	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.61	0.334	mg/kg			NMED SSL	3,130	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,800	3.34	mg/kg			NMED SSL	54,800	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.334	mg/kg			EPA RSL	200	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,200	11.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	483	0.334	mg/kg			NMED SSL	464	YES
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.7	0.334	mg/kg			NMED SSL	753	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,480	11.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	967	11.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.6	0.334	mg/kg			NMED SSL	96.6	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	42.4	0.167	mg/kg			NMED SSL	394	no
0725F1SS034-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.0	1.11	mg/kg			NMED SSL	23,500	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	36,500	5.93	mg/kg			NMED SSL	41,400	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.19	0.475	mg/kg			NMED SSL	7.07	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	329	0.237	mg/kg			NMED SSL	4,390	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.49	0.119	mg/kg			NMED SSL	148	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	41,800	11.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	10.1	0.237	mg/kg			NMED SSL	23.4	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.85	0.356	mg/kg			NMED SSL	3,130	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	25,000	3.56	mg/kg			NMED SSL	54,800	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	15.0	0.356	mg/kg			EPA RSL	200	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	13,100	11.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	495	0.356	mg/kg			NMED SSL	464	YES
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	22.9	0.356	mg/kg			NMED SSL	753	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,070	11.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,170	11.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	25.5	0.356	mg/kg			NMED SSL	96.6	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	44.1	0.178	mg/kg			NMED SSL	394	no
0725F1SS034-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	39.2	1.19	mg/kg			NMED SSL	23,500	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	32,700	5.53	mg/kg			NMED SSL	41,400	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.84	0.442	mg/kg			NMED SSL	7.07	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	327	0.221	mg/kg			NMED SSL	4,390	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.40	0.111	mg/kg			NMED SSL	148	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	41,600	11.1	mg/kg			NMED SSL	8,850,000	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.55	0.221	mg/kg			NMED SSL	23.4	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.41	0.332	mg/kg			NMED SSL	3,130	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	23,400	3.32	mg/kg			NMED SSL	54,800	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.6	0.332	mg/kg			EPA RSL	200	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,100	11.1	mg/kg			NMED SSL	1,550,000	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	486	0.332	mg/kg			NMED SSL	464	YES
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.5	0.332	mg/kg			NMED SSL	753	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,220	11.1	mg/kg			NMED SSL	15,600,000	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,190	11.1	mg/kg			NMED SSL	7,820,000	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	23.1	0.332	mg/kg			NMED SSL	96.6	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	41.8	0.166	mg/kg			NMED SSL	394	no
0725F1SS035-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	36.2	1.11	mg/kg			NMED SSL	23,500	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	35,700	5.48	mg/kg			NMED SSL	41,400	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.04	0.438	mg/kg			NMED SSL	7.07	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	354	0.219	mg/kg			NMED SSL	4,390	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.47	0.110	mg/kg			NMED SSL	148	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	41,500	11.0	mg/kg			NMED SSL	8,850,000	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	10.0	0.219	mg/kg			NMED SSL	23.4	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.71	0.329	mg/kg			NMED SSL	3,130	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	24,500	3.29	mg/kg			NMED SSL	54,800	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.8	0.329	mg/kg			EPA RSL	200	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,900	11.0	mg/kg			NMED SSL	1,550,000	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	495	0.329	mg/kg			NMED SSL	464	YES
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	22.6	0.329	mg/kg			NMED SSL	753	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	6,940	11.0	mg/kg			NMED SSL	15,600,000	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,610	11.0	mg/kg			NMED SSL	7,820,000	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	25.2	0.329	mg/kg			NMED SSL	96.6	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	43.7	0.164	mg/kg			NMED SSL	394	no
0725F1SS035-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	38.5	1.10	mg/kg			NMED SSL	23,500	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	30,500	5.14	mg/kg			NMED SSL	41,400	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	2.89	0.411	mg/kg			NMED SSL	7.07	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-39-3	Barium	334	0.206	mg/kg			NMED SSL	4,390	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.37	0.103	mg/kg			NMED SSL	148	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-70-2	Calcium	44,100	10.3	mg/kg			NMED SSL	8,850,000	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	9.50	0.206	mg/kg			NMED SSL	23.4	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-50-8	Copper	8.63	0.308	mg/kg			NMED SSL	3,130	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7439-89-6	Iron	22,700	3.08	mg/kg			NMED SSL	54,800	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7439-92-1	Lead	14.8	0.308	mg/kg			EPA RSL	200	no

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0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	12,000	10.3	mg/kg			NMED SSL	1,550,000	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7439-96-5	Manganese	503	0.308	mg/kg			NMED SSL	464	YES
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-02-0	Nickel	21.4	0.308	mg/kg			NMED SSL	753	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-09-7	Potassium	5,680	10.3	mg/kg			NMED SSL	15,600,000	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,370	10.3	mg/kg			NMED SSL	7,820,000	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	21.8	0.308	mg/kg			NMED SSL	96.6	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	40.7	0.154	mg/kg			NMED SSL	394	no
0725F1SS036-0.0-0.5DSO	8/28/2014	SW6010B	7440-66-6	Zinc	37.6	1.03	mg/kg			NMED SSL	23,500	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7429-90-5	Aluminum	44,100	24.5	mg/kg			NMED SSL	41,400	YES
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-38-2	Arsenic	3.75	1.96	mg/kg	J	J	NMED SSL	7.07	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-39-3	Barium	323	0.978	mg/kg			NMED SSL	4,390	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-41-7	Beryllium	1.56	0.489	mg/kg	J	J	NMED SSL	148	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-70-2	Calcium	44,800	48.9	mg/kg			NMED SSL	8,850,000	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-48-4	Cobalt	10.5	0.978	mg/kg			NMED SSL	23.4	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-50-8	Copper	9.00	1.47	mg/kg			NMED SSL	3,130	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7439-89-6	Iron	27,700	14.7	mg/kg			NMED SSL	54,800	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7439-92-1	Lead	15.8	1.47	mg/kg			EPA RSL	200	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7439-95-4	Magnesium	14,100	48.9	mg/kg			NMED SSL	1,550,000	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7439-96-5	Manganese	521	1.47	mg/kg			NMED SSL	464	YES
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-02-0	Nickel	24.2	1.47	mg/kg			NMED SSL	753	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-09-7	Potassium	7,810	48.9	mg/kg			NMED SSL	15,600,000	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-23-5	Sodium	1,510	48.9	mg/kg			NMED SSL	7,820,000	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-47-3	Total Chromium	28.6	1.47	mg/kg			NMED SSL	96.6	no
0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-62-2	Vanadium	48.5	0.734	mg/kg			NMED SSL	394	no

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0725F1SS036-0.5-1.0DSO	8/28/2014	SW6010B	7440-66-6	Zinc	41.0	4.89	mg/kg			NMED SSL	23,500	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	37,700	6.25	mg/kg			NMED SSL	41,400	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.64	0.500	mg/kg			NMED SSL	7.07	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	344	0.250	mg/kg			NMED SSL	4,390	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.125	mg/kg			NMED SSL	148	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.132	0.250	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,900	12.5	mg/kg			NMED SSL	8,850,000	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.83	0.250	mg/kg			NMED SSL	23.4	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.93	0.375	mg/kg			NMED SSL	3,130	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,900	3.75	mg/kg			NMED SSL	54,800	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	30.2	0.375	mg/kg			EPA RSL	200	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,800	12.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	457	0.375	mg/kg			NMED SSL	464	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.2	0.375	mg/kg			NMED SSL	753	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,930	12.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.362	0.625	mg/kg	J	J	NMED SSL	391	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	948	12.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.7	0.375	mg/kg			NMED SSL	96.6	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	46.3	0.187	mg/kg			NMED SSL	394	no
0725F2SS001-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	44.5	1.25	mg/kg			NMED SSL	23,500	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	36,800	5.85	mg/kg			NMED SSL	41,400	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.61	0.468	mg/kg			NMED SSL	7.07	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	321	0.234	mg/kg			NMED SSL	4,390	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.50	0.117	mg/kg			NMED SSL	148	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.167	0.234	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,000	11.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.66	0.234	mg/kg			NMED SSL	23.4	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.79	0.351	mg/kg			NMED SSL	3,130	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,100	3.51	mg/kg			NMED SSL	54,800	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	27.7	0.351	mg/kg			EPA RSL	200	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,500	11.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	446	0.351	mg/kg			NMED SSL	464	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.7	0.351	mg/kg			NMED SSL	753	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,680	11.7	mg/kg			NMED SSL	15,600,000	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,260	11.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.0	0.351	mg/kg			NMED SSL	96.6	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	44.3	0.175	mg/kg			NMED SSL	394	no
0725F2SS001-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	43.4	1.17	mg/kg			NMED SSL	23,500	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	37,600	6.05	mg/kg			NMED SSL	41,400	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.39	0.484	mg/kg			NMED SSL	7.07	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	334	0.242	mg/kg			NMED SSL	4,390	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.121	mg/kg			NMED SSL	148	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.373	0.242	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	29,600	12.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.87	0.242	mg/kg			NMED SSL	23.4	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.5	0.363	mg/kg			NMED SSL	3,130	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,800	3.63	mg/kg			NMED SSL	54,800	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	31.4	0.363	mg/kg			EPA RSL	200	no

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0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,900	12.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	464	0.363	mg/kg			NMED SSL	464	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.2	0.363	mg/kg			NMED SSL	753	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	8,520	12.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	624	12.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.9	0.363	mg/kg			NMED SSL	96.6	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	44.9	0.182	mg/kg			NMED SSL	394	no
0725F2SS002-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	56.5	1.21	mg/kg			NMED SSL	23,500	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7429-90-5	Aluminum	37,000	6.34	mg/kg			NMED SSL	41,400	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-38-2	Arsenic	2.68	0.507	mg/kg			NMED SSL	7.07	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-39-3	Barium	328	0.253	mg/kg			NMED SSL	4,390	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-41-7	Beryllium	1.50	0.127	mg/kg			NMED SSL	148	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-43-9	Cadmium	0.217	0.253	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-70-2	Calcium	29,200	12.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-48-4	Cobalt	9.53	0.253	mg/kg			NMED SSL	23.4	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-50-8	Copper	10.8	0.380	mg/kg			NMED SSL	3,130	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-89-6	Iron	25,000	3.80	mg/kg			NMED SSL	54,800	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-92-1	Lead	31.1	0.380	mg/kg			EPA RSL	200	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-95-4	Magnesium	12,400	12.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-96-5	Manganese	445	0.380	mg/kg			NMED SSL	464	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-02-0	Nickel	21.6	0.380	mg/kg			NMED SSL	753	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-09-7	Potassium	8,120	12.7	mg/kg			NMED SSL	15,600,000	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7782-49-2	Selenium	0.526	0.634	mg/kg	J	J	NMED SSL	391	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-23-5	Sodium	742	12.7	mg/kg			NMED SSL	7,820,000	no

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0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.1	0.380	mg/kg			NMED SSL	96.6	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-62-2	Vanadium	44.6	0.190	mg/kg			NMED SSL	394	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-66-6	Zinc	46.7	1.27	mg/kg			NMED SSL	23,500	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	42,400	5.99	mg/kg			NMED SSL	41,400	YES
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.74	0.479	mg/kg			NMED SSL	7.07	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	346	0.239	mg/kg			NMED SSL	4,390	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.63	0.120	mg/kg			NMED SSL	148	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.273	0.239	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	30,100	12.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	10.4	0.239	mg/kg			NMED SSL	23.4	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.4	0.359	mg/kg			NMED SSL	3,130	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	27,300	3.59	mg/kg			NMED SSL	54,800	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	30.3	0.359	mg/kg			EPA RSL	200	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,900	12.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	467	0.359	mg/kg			NMED SSL	464	YES
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	23.5	0.359	mg/kg			NMED SSL	753	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	9,550	12.0	mg/kg			NMED SSL	15,600,000	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.559	0.599	mg/kg	J	J	NMED SSL	391	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,240	12.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	27.3	0.359	mg/kg			NMED SSL	96.6	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	49.4	0.180	mg/kg			NMED SSL	394	no
0725F2SS002-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	49.9	1.20	mg/kg			NMED SSL	23,500	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	42,600	25.5	mg/kg			NMED SSL	41,400	YES
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	1.85	2.04	mg/kg	J	J	NMED SSL	7.07	no

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0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	346	1.02	mg/kg			NMED SSL	4,390	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.58	0.509	mg/kg	J	J	NMED SSL	148	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	31,800	50.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	10.3	1.02	mg/kg			NMED SSL	23.4	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.5	1.53	mg/kg			NMED SSL	3,130	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	28,600	15.3	mg/kg			NMED SSL	54,800	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	28.6	1.53	mg/kg			EPA RSL	200	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,300	50.9	mg/kg		J	NMED SSL	1,550,000	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	496	1.53	mg/kg			NMED SSL	464	YES
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	23.1	1.53	mg/kg			NMED SSL	753	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	9,150	50.9	mg/kg		J	NMED SSL	15,600,000	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	745	50.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	29.2	1.53	mg/kg			NMED SSL	96.6	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	47.4	0.764	mg/kg			NMED SSL	394	no
0725F2SS003-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	44.7	5.09	mg/kg			NMED SSL	23,500	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	39,300	5.53	mg/kg			NMED SSL	41,400	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.38	0.442	mg/kg			NMED SSL	7.07	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	343	0.221	mg/kg			NMED SSL	4,390	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.60	0.111	mg/kg			NMED SSL	148	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.250	0.221	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	30,800	11.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	10.2	0.221	mg/kg			NMED SSL	23.4	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.4	0.332	mg/kg			NMED SSL	3,130	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	26,500	3.32	mg/kg			NMED SSL	54,800	no

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0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	28.5	0.332	mg/kg			EPA RSL	200	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,500	11.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	474	0.332	mg/kg			NMED SSL	464	YES
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.9	0.332	mg/kg			NMED SSL	753	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	9,230	11.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	986	11.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	25.9	0.332	mg/kg			NMED SSL	96.6	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	46.4	0.166	mg/kg			NMED SSL	394	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	44.3	1.11	mg/kg			NMED SSL	23,500	no
0725F2SS003-0.5-1.0DSO	8/15/2014	SW7471A	7439-97-6	Mercury	0.0117	0.0222	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	34,300	5.49	mg/kg			NMED SSL	41,400	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.59	0.440	mg/kg			NMED SSL	7.07	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	325	0.220	mg/kg			NMED SSL	4,390	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.48	0.110	mg/kg			NMED SSL	148	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.165	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	31,500	11.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.30	0.220	mg/kg			NMED SSL	23.4	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.45	0.330	mg/kg			NMED SSL	3,130	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	23,800	3.30	mg/kg			NMED SSL	54,800	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	25.3	0.330	mg/kg			EPA RSL	200	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,300	11.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	452	0.330	mg/kg			NMED SSL	464	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.2	0.330	mg/kg			NMED SSL	753	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,300	11.0	mg/kg			NMED SSL	15,600,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.315	0.549	mg/kg	J	J	NMED SSL	391	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	982	11.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	22.9	0.330	mg/kg			NMED SSL	96.6	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	42.3	0.165	mg/kg			NMED SSL	394	no
0725F2SS004-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	39.4	1.10	mg/kg			NMED SSL	23,500	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	36,400	5.45	mg/kg			NMED SSL	41,400	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.38	0.436	mg/kg			NMED SSL	7.07	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	334	0.218	mg/kg			NMED SSL	4,390	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.109	mg/kg			NMED SSL	148	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.173	0.218	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	32,000	10.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.78	0.218	mg/kg			NMED SSL	23.4	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.71	0.327	mg/kg			NMED SSL	3,130	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,000	3.27	mg/kg			NMED SSL	54,800	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	24.1	0.327	mg/kg			EPA RSL	200	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,000	10.9	mg/kg			NMED SSL	1,550,000	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	466	0.327	mg/kg			NMED SSL	464	YES
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.2	0.327	mg/kg			NMED SSL	753	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,960	10.9	mg/kg			NMED SSL	15,600,000	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,310	10.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.7	0.327	mg/kg			NMED SSL	96.6	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	44.2	0.163	mg/kg			NMED SSL	394	no
0725F2SS004-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	42.6	1.09	mg/kg			NMED SSL	23,500	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	33,700	5.36	mg/kg			NMED SSL	41,400	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.62	0.429	mg/kg			NMED SSL	7.07	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	328	0.214	mg/kg			NMED SSL	4,390	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.44	0.107	mg/kg			NMED SSL	148	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.137	0.214	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	30,900	10.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.21	0.214	mg/kg			NMED SSL	23.4	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.16	0.322	mg/kg			NMED SSL	3,130	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	23,600	3.22	mg/kg			NMED SSL	54,800	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	26.7	0.322	mg/kg			EPA RSL	200	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,200	10.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	451	0.322	mg/kg			NMED SSL	464	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.0	0.322	mg/kg			NMED SSL	753	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,180	10.7	mg/kg			NMED SSL	15,600,000	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,130	10.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	22.3	0.322	mg/kg			NMED SSL	96.6	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	41.9	0.161	mg/kg			NMED SSL	394	no
0725F2SS005-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	38.8	1.07	mg/kg			NMED SSL	23,500	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	36,100	5.30	mg/kg			NMED SSL	41,400	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.44	0.424	mg/kg			NMED SSL	7.07	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	311	0.212	mg/kg			NMED SSL	4,390	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.46	0.106	mg/kg			NMED SSL	148	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.154	0.212	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	30,800	10.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.38	0.212	mg/kg			NMED SSL	23.4	no

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0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.17	0.318	mg/kg			NMED SSL	3,130	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	24,400	3.18	mg/kg			NMED SSL	54,800	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	25.6	0.318	mg/kg			EPA RSL	200	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,600	10.6	mg/kg			NMED SSL	1,550,000	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	447	0.318	mg/kg			NMED SSL	464	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.4	0.318	mg/kg			NMED SSL	753	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,620	10.6	mg/kg			NMED SSL	15,600,000	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.487	0.530	mg/kg	J	J	NMED SSL	391	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,540	10.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	23.5	0.318	mg/kg			NMED SSL	96.6	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	43.3	0.159	mg/kg			NMED SSL	394	no
0725F2SS005-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	40.4	1.06	mg/kg			NMED SSL	23,500	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	37,900	5.73	mg/kg			NMED SSL	41,400	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.39	0.458	mg/kg			NMED SSL	7.07	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	344	0.229	mg/kg			NMED SSL	4,390	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.115	mg/kg			NMED SSL	148	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.191	0.229	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	32,400	11.5	mg/kg			NMED SSL	8,850,000	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.87	0.229	mg/kg			NMED SSL	23.4	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.91	0.344	mg/kg			NMED SSL	3,130	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,500	3.44	mg/kg			NMED SSL	54,800	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	25.1	0.344	mg/kg			EPA RSL	200	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,300	11.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	474	0.344	mg/kg			NMED SSL	464	YES

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0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.5	0.344	mg/kg			NMED SSL	753	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	8,650	11.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	655	11.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	25.0	0.344	mg/kg			NMED SSL	96.6	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	45.2	0.172	mg/kg			NMED SSL	394	no
0725F2SS006-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	42.5	1.15	mg/kg			NMED SSL	23,500	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	39,800	5.79	mg/kg			NMED SSL	41,400	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.30	0.463	mg/kg			NMED SSL	7.07	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	346	0.232	mg/kg			NMED SSL	4,390	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.57	0.116	mg/kg			NMED SSL	148	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.206	0.232	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	32,600	11.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	10.0	0.232	mg/kg			NMED SSL	23.4	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.84	0.347	mg/kg			NMED SSL	3,130	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	26,100	3.47	mg/kg			NMED SSL	54,800	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	27.4	0.347	mg/kg			EPA RSL	200	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,700	11.6	mg/kg			NMED SSL	1,550,000	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	473	0.347	mg/kg			NMED SSL	464	YES
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.9	0.347	mg/kg			NMED SSL	753	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	8,770	11.6	mg/kg			NMED SSL	15,600,000	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.446	0.579	mg/kg	J	J	NMED SSL	391	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,040	11.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	26.1	0.347	mg/kg			NMED SSL	96.6	no
0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	46.7	0.174	mg/kg			NMED SSL	394	no

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0725F2SS006-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	47.3	1.16	mg/kg			NMED SSL	23,500	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	38,400	6.31	mg/kg			NMED SSL	41,400	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.58	0.505	mg/kg			NMED SSL	7.07	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	354	0.253	mg/kg			NMED SSL	4,390	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.48	0.126	mg/kg			NMED SSL	148	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.141	0.253	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	33,700	12.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.67	0.253	mg/kg			NMED SSL	23.4	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.52	0.379	mg/kg			NMED SSL	3,130	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,000	3.79	mg/kg			NMED SSL	54,800	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	29.1	0.379	mg/kg			EPA RSL	200	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,000	12.6	mg/kg			NMED SSL	1,550,000	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	467	0.379	mg/kg			NMED SSL	464	YES
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	22.1	0.379	mg/kg			NMED SSL	753	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	8,350	12.6	mg/kg			NMED SSL	15,600,000	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.357	0.631	mg/kg	J	J	NMED SSL	391	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	956	12.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	25.1	0.379	mg/kg			NMED SSL	96.6	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	46.1	0.189	mg/kg			NMED SSL	394	no
0725F2SS007-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	41.2	1.26	mg/kg			NMED SSL	23,500	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7429-90-5	Aluminum	35,300	5.98	mg/kg			NMED SSL	41,400	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-38-2	Arsenic	2.44	0.479	mg/kg			NMED SSL	7.07	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-39-3	Barium	328	0.239	mg/kg			NMED SSL	4,390	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-41-7	Beryllium	1.40	0.120	mg/kg			NMED SSL	148	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-43-9	Cadmium	0.146	0.239	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-70-2	Calcium	33,700	12.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-48-4	Cobalt	9.15	0.239	mg/kg			NMED SSL	23.4	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-50-8	Copper	8.95	0.359	mg/kg			NMED SSL	3,130	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-89-6	Iron	23,800	3.59	mg/kg			NMED SSL	54,800	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-92-1	Lead	28.5	0.359	mg/kg			EPA RSL	200	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-95-4	Magnesium	12,200	12.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7439-96-5	Manganese	456	0.359	mg/kg			NMED SSL	464	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-02-0	Nickel	21.0	0.359	mg/kg			NMED SSL	753	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-09-7	Potassium	7,390	12.0	mg/kg			NMED SSL	15,600,000	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-23-5	Sodium	994	12.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-47-3	Total Chromium	23.1	0.359	mg/kg			NMED SSL	96.6	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-62-2	Vanadium	43.7	0.180	mg/kg			NMED SSL	394	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	SW6010B	7440-66-6	Zinc	38.4	1.20	mg/kg			NMED SSL	23,500	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	35,800	6.35	mg/kg			NMED SSL	41,400	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.56	0.508	mg/kg			NMED SSL	7.07	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	375	0.254	mg/kg			NMED SSL	4,390	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.36	0.127	mg/kg			NMED SSL	148	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.150	0.254	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	39,700	12.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.18	0.254	mg/kg			NMED SSL	23.4	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	8.78	0.381	mg/kg			NMED SSL	3,130	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	23,700	3.81	mg/kg			NMED SSL	54,800	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	29.7	0.381	mg/kg			EPA RSL	200	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,500	12.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	490	0.381	mg/kg			NMED SSL	464	YES
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.0	0.381	mg/kg			NMED SSL	753	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,410	12.7	mg/kg			NMED SSL	15,600,000	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.453	0.635	mg/kg	J	J	NMED SSL	391	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,410	12.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	23.0	0.381	mg/kg			NMED SSL	96.6	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	44.5	0.190	mg/kg			NMED SSL	394	no
0725F2SS007-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	37.4	1.27	mg/kg			NMED SSL	23,500	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	36,300	6.70	mg/kg			NMED SSL	41,400	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.94	0.536	mg/kg			NMED SSL	7.07	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	334	0.268	mg/kg			NMED SSL	4,390	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.48	0.134	mg/kg			NMED SSL	148	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.151	0.268	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	26,700	13.4	mg/kg			NMED SSL	8,850,000	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.67	0.268	mg/kg			NMED SSL	23.4	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	11.4	0.402	mg/kg			NMED SSL	3,130	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,200	4.02	mg/kg			NMED SSL	54,800	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	33.2	0.402	mg/kg			EPA RSL	200	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,900	13.4	mg/kg			NMED SSL	1,550,000	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	437	0.402	mg/kg			NMED SSL	464	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.3	0.402	mg/kg			NMED SSL	753	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,570	13.4	mg/kg			NMED SSL	15,600,000	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.614	0.670	mg/kg	J	J	NMED SSL	391	no

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0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	675	13.4	mg/kg			NMED SSL	7,820,000	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	23.7	0.402	mg/kg			NMED SSL	96.6	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	45.4	0.201	mg/kg			NMED SSL	394	no
0725F2SS008-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	48.3	1.34	mg/kg			NMED SSL	23,500	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	33,300	6.20	mg/kg			NMED SSL	41,400	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.33	0.496	mg/kg			NMED SSL	7.07	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	356	0.248	mg/kg			NMED SSL	4,390	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.41	0.124	mg/kg			NMED SSL	148	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.138	0.248	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	29,300	12.4	mg/kg			NMED SSL	8,850,000	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.17	0.248	mg/kg			NMED SSL	23.4	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.79	0.372	mg/kg			NMED SSL	3,130	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,300	3.72	mg/kg			NMED SSL	54,800	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	30.1	0.372	mg/kg			EPA RSL	200	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,700	12.4	mg/kg			NMED SSL	1,550,000	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	445	0.372	mg/kg			NMED SSL	464	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	20.7	0.372	mg/kg			NMED SSL	753	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,680	12.4	mg/kg			NMED SSL	15,600,000	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	958	12.4	mg/kg			NMED SSL	7,820,000	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	22.4	0.372	mg/kg			NMED SSL	96.6	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	42.3	0.186	mg/kg			NMED SSL	394	no
0725F2SS008-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	41.9	1.24	mg/kg			NMED SSL	23,500	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	37,200	6.20	mg/kg			NMED SSL	41,400	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.92	0.496	mg/kg			NMED SSL	7.07	no

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0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	326	0.248	mg/kg			NMED SSL	4,390	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.124	mg/kg			NMED SSL	148	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.155	0.248	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	27,800	12.4	mg/kg			NMED SSL	8,850,000	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.60	0.248	mg/kg			NMED SSL	23.4	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.5	0.372	mg/kg			NMED SSL	3,130	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,000	3.72	mg/kg			NMED SSL	54,800	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	25.8	0.372	mg/kg			EPA RSL	200	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,400	12.4	mg/kg			NMED SSL	1,550,000	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	448	0.372	mg/kg			NMED SSL	464	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.4	0.372	mg/kg			NMED SSL	753	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,900	12.4	mg/kg			NMED SSL	15,600,000	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.526	0.620	mg/kg	J	J	NMED SSL	391	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,190	12.4	mg/kg			NMED SSL	7,820,000	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	23.9	0.372	mg/kg			NMED SSL	96.6	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	45.2	0.186	mg/kg			NMED SSL	394	no
0725F2SS009-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	43.2	1.24	mg/kg			NMED SSL	23,500	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	38,500	6.11	mg/kg			NMED SSL	41,400	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-36-0	Antimony	1.89	3.66	mg/kg	J	J	NMED SSL	31.3	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	15.0	0.489	mg/kg			NMED SSL	7.07	YES
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	629	0.244	mg/kg			NMED SSL	4,390	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.58	0.122	mg/kg			NMED SSL	148	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.341	0.244	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	27,400	12.2	mg/kg			NMED SSL	8,850,000	no

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0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.65	0.244	mg/kg			NMED SSL	23.4	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.7	0.366	mg/kg			NMED SSL	3,130	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	42,100	3.66	mg/kg			NMED SSL	54,800	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	24.9	0.366	mg/kg			EPA RSL	200	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	12,700	12.2	mg/kg			NMED SSL	1,550,000	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	437	0.366	mg/kg			NMED SSL	464	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	21.6	0.366	mg/kg			NMED SSL	753	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	8,310	12.2	mg/kg			NMED SSL	15,600,000	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	1.97	0.611	mg/kg			NMED SSL	391	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,500	12.2	mg/kg			NMED SSL	7,820,000	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	25.3	0.366	mg/kg			NMED SSL	96.6	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	53.0	0.183	mg/kg			NMED SSL	394	no
0725F2SS009-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	45.9	1.22	mg/kg			NMED SSL	23,500	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	32,800	5.57	mg/kg			NMED SSL	41,400	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	3.04	0.445	mg/kg			NMED SSL	7.07	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	329	0.223	mg/kg			NMED SSL	4,390	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.64	0.111	mg/kg			NMED SSL	148	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.174	0.223	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,500	11.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.69	0.223	mg/kg			NMED SSL	23.4	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	11.3	0.334	mg/kg			NMED SSL	3,130	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	24,100	3.34	mg/kg			NMED SSL	54,800	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	30.1	0.334	mg/kg			EPA RSL	200	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,500	11.1	mg/kg			NMED SSL	1,550,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	475	0.334	mg/kg			NMED SSL	464	YES
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	20.5	0.334	mg/kg			NMED SSL	753	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,780	11.1	mg/kg		J	NMED SSL	15,600,000	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	883	11.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	21.6	0.334	mg/kg			NMED SSL	96.6	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	43.6	0.167	mg/kg			NMED SSL	394	no
0725F2SS010-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	44.5	1.11	mg/kg			NMED SSL	23,500	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	30,600	5.24	mg/kg			NMED SSL	41,400	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	3.05	0.419	mg/kg			NMED SSL	7.07	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	334	0.210	mg/kg			NMED SSL	4,390	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.49	0.105	mg/kg			NMED SSL	148	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.183	0.210	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,200	10.5	mg/kg			NMED SSL	8,850,000	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.16	0.210	mg/kg			NMED SSL	23.4	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.5	0.314	mg/kg			NMED SSL	3,130	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	23,300	3.14	mg/kg			NMED SSL	54,800	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	28.4	0.314	mg/kg			EPA RSL	200	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	10,700	10.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	455	0.314	mg/kg			NMED SSL	464	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	19.6	0.314	mg/kg			NMED SSL	753	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,010	10.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,180	10.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	19.6	0.314	mg/kg			NMED SSL	96.6	no
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	41.7	0.157	mg/kg			NMED SSL	394	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS010-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	45.9	1.05	mg/kg			NMED SSL	23,500	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	32,200	5.80	mg/kg			NMED SSL	41,400	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.49	0.464	mg/kg			NMED SSL	7.07	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	326	0.232	mg/kg			NMED SSL	4,390	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.49	0.116	mg/kg			NMED SSL	148	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.162	0.232	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,100	11.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.25	0.232	mg/kg			NMED SSL	23.4	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.7	0.348	mg/kg			NMED SSL	3,130	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	23,500	3.48	mg/kg			NMED SSL	54,800	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	31.0	0.348	mg/kg			EPA RSL	200	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,300	11.6	mg/kg			NMED SSL	1,550,000	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	445	0.348	mg/kg			NMED SSL	464	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	20.1	0.348	mg/kg			NMED SSL	753	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,630	11.6	mg/kg			NMED SSL	15,600,000	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.487	0.580	mg/kg	J	J	NMED SSL	391	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	581	11.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	20.7	0.348	mg/kg			NMED SSL	96.6	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	42.4	0.174	mg/kg			NMED SSL	394	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	48.4	1.16	mg/kg			NMED SSL	23,500	no
0725F2SS011-0.0-0.5DSO	8/15/2014	SW7471A	7439-97-6	Mercury	0.0148	0.0247	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	31,700	6.24	mg/kg			NMED SSL	41,400	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.62	0.499	mg/kg			NMED SSL	7.07	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	292	0.250	mg/kg			NMED SSL	4,390	no

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0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.47	0.125	mg/kg			NMED SSL	148	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	27,500	12.5	mg/kg			NMED SSL	8,850,000	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.07	0.250	mg/kg			NMED SSL	23.4	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	10.4	0.374	mg/kg			NMED SSL	3,130	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	22,900	3.74	mg/kg			NMED SSL	54,800	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	30.5	0.374	mg/kg			EPA RSL	200	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,000	12.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	437	0.374	mg/kg			NMED SSL	464	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	19.7	0.374	mg/kg			NMED SSL	753	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,170	12.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	909	12.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	20.9	0.374	mg/kg			NMED SSL	96.6	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	41.9	0.187	mg/kg			NMED SSL	394	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	47.5	1.25	mg/kg			NMED SSL	23,500	no
0725F2SS011-0.5-1.0DSO	8/15/2014	SW7471A	7439-97-6	Mercury	0.0139	0.0266	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7429-90-5	Aluminum	29,700	5.92	mg/kg			NMED SSL	41,400	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-38-2	Arsenic	2.91	0.473	mg/kg			NMED SSL	7.07	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-39-3	Barium	303	0.237	mg/kg			NMED SSL	4,390	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-41-7	Beryllium	1.47	0.118	mg/kg			NMED SSL	148	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-43-9	Cadmium	0.128	0.237	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-70-2	Calcium	27,800	11.8	mg/kg			NMED SSL	8,850,000	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-48-4	Cobalt	8.96	0.237	mg/kg			NMED SSL	23.4	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-50-8	Copper	10.9	0.355	mg/kg			NMED SSL	3,130	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7439-89-6	Iron	22,400	3.55	mg/kg			NMED SSL	54,800	no

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0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7439-92-1	Lead	31.0	0.355	mg/kg			EPA RSL	200	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7439-95-4	Magnesium	10,700	11.8	mg/kg			NMED SSL	1,550,000	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7439-96-5	Manganese	443	0.355	mg/kg			NMED SSL	464	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-02-0	Nickel	19.4	0.355	mg/kg			NMED SSL	753	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-09-7	Potassium	6,770	11.8	mg/kg			NMED SSL	15,600,000	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-23-5	Sodium	895	11.8	mg/kg			NMED SSL	7,820,000	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-47-3	Total Chromium	19.7	0.355	mg/kg			NMED SSL	96.6	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-62-2	Vanadium	40.5	0.177	mg/kg			NMED SSL	394	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW6010B	7440-66-6	Zinc	45.2	1.18	mg/kg			NMED SSL	23,500	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	SW7471A	7439-97-6	Mercury	0.0133	0.0242	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	31,800	5.88	mg/kg			NMED SSL	41,400	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.65	0.470	mg/kg			NMED SSL	7.07	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	303	0.235	mg/kg			NMED SSL	4,390	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.54	0.118	mg/kg			NMED SSL	148	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.143	0.235	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	28,500	11.8	mg/kg			NMED SSL	8,850,000	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	8.97	0.235	mg/kg			NMED SSL	23.4	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	11.0	0.353	mg/kg			NMED SSL	3,130	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	22,900	3.53	mg/kg			NMED SSL	54,800	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	29.6	0.353	mg/kg			EPA RSL	200	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,100	11.8	mg/kg			NMED SSL	1,550,000	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	434	0.353	mg/kg			NMED SSL	464	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	19.8	0.353	mg/kg			NMED SSL	753	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,750	11.8	mg/kg			NMED SSL	15,600,000	no

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0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	504	11.8	mg/kg			NMED SSL	7,820,000	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	20.7	0.353	mg/kg			NMED SSL	96.6	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	41.7	0.176	mg/kg			NMED SSL	394	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	40.2	1.18	mg/kg			NMED SSL	23,500	no
0725F2SS012-0.0-0.5DSO	8/15/2014	SW7471A	7439-97-6	Mercury	0.0147	0.0235	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	33,100	5.50	mg/kg			NMED SSL	41,400	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.67	0.440	mg/kg			NMED SSL	7.07	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	315	0.220	mg/kg			NMED SSL	4,390	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.67	0.110	mg/kg			NMED SSL	148	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.165	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	29,500	11.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	9.58	0.220	mg/kg			NMED SSL	23.4	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	11.3	0.330	mg/kg			NMED SSL	3,130	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	24,000	3.30	mg/kg			NMED SSL	54,800	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	28.4	0.330	mg/kg			EPA RSL	200	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	11,500	11.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	457	0.330	mg/kg			NMED SSL	464	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	20.9	0.330	mg/kg			NMED SSL	753	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,920	11.0	mg/kg			NMED SSL	15,600,000	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7782-49-2	Selenium	0.344	0.550	mg/kg	J	J	NMED SSL	391	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	634	11.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	21.3	0.330	mg/kg			NMED SSL	96.6	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	43.7	0.165	mg/kg			NMED SSL	394	no
0725F2SS012-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	42.2	1.10	mg/kg			NMED SSL	23,500	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS012-0.5-1.0DSO	8/15/2014	SW7471A	7439-97-6	Mercury	0.0148	0.0231	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	30,100	6.44	mg/kg			NMED SSL	41,400	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.78	0.515	mg/kg			NMED SSL	7.07	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-39-3	Barium	316	0.258	mg/kg			NMED SSL	4,390	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.35	0.129	mg/kg			NMED SSL	148	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-70-2	Calcium	30,200	12.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	8.58	0.258	mg/kg			NMED SSL	23.4	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.50	0.386	mg/kg			NMED SSL	3,130	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7439-89-6	Iron	22,200	3.86	mg/kg			NMED SSL	54,800	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7439-92-1	Lead	29.7	0.386	mg/kg			EPA RSL	200	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	10,800	12.9	mg/kg			NMED SSL	1,550,000	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7439-96-5	Manganese	438	0.386	mg/kg			NMED SSL	464	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-02-0	Nickel	19.4	0.386	mg/kg			NMED SSL	753	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-09-7	Potassium	6,260	12.9	mg/kg			NMED SSL	15,600,000	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-23-5	Sodium	719	12.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	19.5	0.386	mg/kg			NMED SSL	96.6	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	39.9	0.193	mg/kg			NMED SSL	394	no
0725F2SS013-0.0-0.5DSO	8/15/2014	SW6010B	7440-66-6	Zinc	38.0	1.29	mg/kg			NMED SSL	23,500	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7429-90-5	Aluminum	37,900	6.75	mg/kg			NMED SSL	41,400	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-38-2	Arsenic	2.71	0.540	mg/kg			NMED SSL	7.07	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-39-3	Barium	410	0.270	mg/kg			NMED SSL	4,390	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-41-7	Beryllium	1.53	0.135	mg/kg			NMED SSL	148	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-43-9	Cadmium	0.158	0.270	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-70-2	Calcium	41,100	13.5	mg/kg			NMED SSL	8,850,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-48-4	Cobalt	10.1	0.270	mg/kg			NMED SSL	23.4	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-50-8	Copper	9.75	0.405	mg/kg			NMED SSL	3,130	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7439-89-6	Iron	25,900	4.05	mg/kg			NMED SSL	54,800	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7439-92-1	Lead	32.8	0.405	mg/kg			EPA RSL	200	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7439-95-4	Magnesium	13,400	13.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7439-96-5	Manganese	504	0.405	mg/kg			NMED SSL	464	YES
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-02-0	Nickel	23.2	0.405	mg/kg			NMED SSL	753	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-09-7	Potassium	7,510	13.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-23-5	Sodium	1,320	13.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-47-3	Total Chromium	24.6	0.405	mg/kg			NMED SSL	96.6	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-62-2	Vanadium	47.5	0.202	mg/kg			NMED SSL	394	no
0725F2SS013-0.5-1.0DSO	8/15/2014	SW6010B	7440-66-6	Zinc	46.0	1.35	mg/kg			NMED SSL	23,500	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	32,200	5.34	mg/kg			NMED SSL	41,400	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.49	0.427	mg/kg			NMED SSL	7.07	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	317	0.214	mg/kg			NMED SSL	4,390	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.43	0.107	mg/kg			NMED SSL	148	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.191	0.214	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	32,300	10.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.96	0.214	mg/kg			NMED SSL	23.4	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.49	0.321	mg/kg			NMED SSL	3,130	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,800	3.21	mg/kg			NMED SSL	54,800	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	27.7	0.321	mg/kg			EPA RSL	200	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,800	10.7	mg/kg		J	NMED SSL	1,550,000	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	450	0.321	mg/kg			NMED SSL	464	no

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0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.4	0.321	mg/kg			NMED SSL	753	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,330	10.7	mg/kg		J	NMED SSL	15,600,000	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.344	0.534	mg/kg	J	J	NMED SSL	391	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	603	10.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.321	mg/kg			NMED SSL	96.6	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	40.4	0.160	mg/kg			NMED SSL	394	no
0725F2SS014-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	38.9	1.07	mg/kg			NMED SSL	23,500	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	31,700	5.41	mg/kg			NMED SSL	41,400	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.15	0.433	mg/kg			NMED SSL	7.07	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	367	0.217	mg/kg			NMED SSL	4,390	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.38	0.108	mg/kg			NMED SSL	148	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.178	0.217	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	33,200	10.8	mg/kg			NMED SSL	8,850,000	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.84	0.217	mg/kg			NMED SSL	23.4	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.14	0.325	mg/kg			NMED SSL	3,130	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,800	3.25	mg/kg			NMED SSL	54,800	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	27.1	0.325	mg/kg			EPA RSL	200	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,600	10.8	mg/kg			NMED SSL	1,550,000	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	445	0.325	mg/kg			NMED SSL	464	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.2	0.325	mg/kg			NMED SSL	753	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,690	10.8	mg/kg			NMED SSL	15,600,000	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,010	10.8	mg/kg			NMED SSL	7,820,000	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	20.3	0.325	mg/kg			NMED SSL	96.6	no
0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	40.4	0.162	mg/kg			NMED SSL	394	no

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0725F2SS014-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	37.6	1.08	mg/kg			NMED SSL	23,500	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	37,300	5.96	mg/kg			NMED SSL	41,400	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.42	0.477	mg/kg			NMED SSL	7.07	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	324	0.238	mg/kg			NMED SSL	4,390	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.45	0.119	mg/kg			NMED SSL	148	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.217	0.238	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	33,000	11.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.44	0.238	mg/kg			NMED SSL	23.4	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.36	0.358	mg/kg			NMED SSL	3,130	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	24,800	3.58	mg/kg			NMED SSL	54,800	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	29.7	0.358	mg/kg			EPA RSL	200	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,700	11.9	mg/kg			NMED SSL	1,550,000	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	454	0.358	mg/kg			NMED SSL	464	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.4	0.358	mg/kg			NMED SSL	753	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,970	11.9	mg/kg			NMED SSL	15,600,000	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	885	11.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	23.5	0.358	mg/kg			NMED SSL	96.6	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	45.3	0.179	mg/kg			NMED SSL	394	no
0725F2SS015-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	41.3	1.19	mg/kg			NMED SSL	23,500	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	32,900	6.59	mg/kg			NMED SSL	41,400	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.67	0.527	mg/kg			NMED SSL	7.07	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	349	0.264	mg/kg			NMED SSL	4,390	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.39	0.132	mg/kg			NMED SSL	148	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	34,200	13.2	mg/kg			NMED SSL	8,850,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.94	0.264	mg/kg			NMED SSL	23.4	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	8.70	0.395	mg/kg			NMED SSL	3,130	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,900	3.95	mg/kg			NMED SSL	54,800	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.3	0.395	mg/kg			EPA RSL	200	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,900	13.2	mg/kg			NMED SSL	1,550,000	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	477	0.395	mg/kg			NMED SSL	464	YES
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.5	0.395	mg/kg			NMED SSL	753	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,810	13.2	mg/kg			NMED SSL	15,600,000	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,440	13.2	mg/kg			NMED SSL	7,820,000	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.8	0.395	mg/kg			NMED SSL	96.6	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	42.2	0.198	mg/kg			NMED SSL	394	no
0725F2SS015-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	37.6	1.32	mg/kg			NMED SSL	23,500	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	34,400	6.47	mg/kg			NMED SSL	41,400	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.94	0.518	mg/kg			NMED SSL	7.07	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	307	0.259	mg/kg			NMED SSL	4,390	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.43	0.129	mg/kg			NMED SSL	148	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	25,100	12.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.25	0.259	mg/kg			NMED SSL	23.4	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.4	0.388	mg/kg			NMED SSL	3,130	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	24,100	3.88	mg/kg			NMED SSL	54,800	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	30.9	0.388	mg/kg			EPA RSL	200	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,500	12.9	mg/kg			NMED SSL	1,550,000	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	412	0.388	mg/kg			NMED SSL	464	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.4	0.388	mg/kg			NMED SSL	753	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,530	12.9	mg/kg			NMED SSL	15,600,000	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.621	0.647	mg/kg	J	J	NMED SSL	391	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	644	12.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	22.5	0.388	mg/kg			NMED SSL	96.6	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	43.4	0.194	mg/kg			NMED SSL	394	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	45.1	1.29	mg/kg			NMED SSL	23,500	no
0725F2SS016-0.0-0.5DSO	8/19/2014	SW7471A	7439-97-6	Mercury	0.0366	0.0268	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	37,200	6.55	mg/kg			NMED SSL	41,400	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.80	0.524	mg/kg			NMED SSL	7.07	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	303	0.262	mg/kg			NMED SSL	4,390	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.49	0.131	mg/kg			NMED SSL	148	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	25,300	13.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.61	0.262	mg/kg			NMED SSL	23.4	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.2	0.393	mg/kg			NMED SSL	3,130	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	25,000	3.93	mg/kg			NMED SSL	54,800	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.8	0.393	mg/kg			EPA RSL	200	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,200	13.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	428	0.393	mg/kg			NMED SSL	464	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.3	0.393	mg/kg			NMED SSL	753	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	8,240	13.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	956	13.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	24.2	0.393	mg/kg			NMED SSL	96.6	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	45.4	0.197	mg/kg			NMED SSL	394	no
0725F2SS016-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	46.2	1.31	mg/kg			NMED SSL	23,500	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	38,100	6.35	mg/kg			NMED SSL	41,400	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.94	0.508	mg/kg			NMED SSL	7.07	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	326	0.254	mg/kg			NMED SSL	4,390	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.56	0.127	mg/kg			NMED SSL	148	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.179	0.254	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	28,800	12.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.95	0.254	mg/kg			NMED SSL	23.4	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.6	0.381	mg/kg			NMED SSL	3,130	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	26,200	3.81	mg/kg			NMED SSL	54,800	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	30.1	0.381	mg/kg			EPA RSL	200	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,900	12.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	435	0.381	mg/kg			NMED SSL	464	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	22.4	0.381	mg/kg			NMED SSL	753	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,860	12.7	mg/kg			NMED SSL	15,600,000	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.412	0.635	mg/kg	J	J	NMED SSL	391	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	812	12.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	24.6	0.381	mg/kg			NMED SSL	96.6	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	47.5	0.191	mg/kg			NMED SSL	394	no
0725F2SS017-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	44.3	1.27	mg/kg			NMED SSL	23,500	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7429-90-5	Aluminum	36,200	6.24	mg/kg			NMED SSL	41,400	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-38-2	Arsenic	2.41	0.499	mg/kg			NMED SSL	7.07	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-39-3	Barium	324	0.250	mg/kg			NMED SSL	4,390	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-41-7	Beryllium	1.56	0.125	mg/kg			NMED SSL	148	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-43-9	Cadmium	0.173	0.250	mg/kg	J	J	NMED SSL	70.5	no

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0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-70-2	Calcium	27,200	12.5	mg/kg			NMED SSL	8,850,000	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-48-4	Cobalt	9.73	0.250	mg/kg			NMED SSL	23.4	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-50-8	Copper	11.3	0.374	mg/kg			NMED SSL	3,130	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-89-6	Iron	25,200	3.74	mg/kg			NMED SSL	54,800	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-92-1	Lead	29.7	0.374	mg/kg			EPA RSL	200	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-95-4	Magnesium	12,100	12.5	mg/kg			NMED SSL	1,550,000	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-96-5	Manganese	423	0.374	mg/kg			NMED SSL	464	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-02-0	Nickel	21.5	0.374	mg/kg			NMED SSL	753	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-09-7	Potassium	7,370	12.5	mg/kg			NMED SSL	15,600,000	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7782-49-2	Selenium	0.412	0.624	mg/kg	J	J	NMED SSL	391	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-23-5	Sodium	779	12.5	mg/kg			NMED SSL	7,820,000	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-47-3	Total Chromium	23.1	0.374	mg/kg			NMED SSL	96.6	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-62-2	Vanadium	45.3	0.187	mg/kg			NMED SSL	394	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-66-6	Zinc	45.7	1.25	mg/kg			NMED SSL	23,500	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	SW7471A	7439-97-6	Mercury	0.0131	0.0258	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	34,400	6.20	mg/kg			NMED SSL	41,400	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.81	0.496	mg/kg			NMED SSL	7.07	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	315	0.248	mg/kg			NMED SSL	4,390	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.47	0.124	mg/kg			NMED SSL	148	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.169	0.248	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	26,900	12.4	mg/kg			NMED SSL	8,850,000	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.26	0.248	mg/kg			NMED SSL	23.4	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.5	0.372	mg/kg			NMED SSL	3,130	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	24,100	3.72	mg/kg			NMED SSL	54,800	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	30.0	0.372	mg/kg			EPA RSL	200	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,500	12.4	mg/kg			NMED SSL	1,550,000	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	412	0.372	mg/kg			NMED SSL	464	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.7	0.372	mg/kg			NMED SSL	753	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,760	12.4	mg/kg			NMED SSL	15,600,000	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.353	0.620	mg/kg	J	J	NMED SSL	391	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,060	12.4	mg/kg			NMED SSL	7,820,000	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.7	0.372	mg/kg			NMED SSL	96.6	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	42.9	0.186	mg/kg			NMED SSL	394	no
0725F2SS017-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	43.5	1.24	mg/kg			NMED SSL	23,500	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	33,600	5.35	mg/kg			NMED SSL	41,400	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.69	0.428	mg/kg			NMED SSL	7.07	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	325	0.214	mg/kg			NMED SSL	4,390	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.47	0.107	mg/kg			NMED SSL	148	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.182	0.214	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	28,800	10.7	mg/kg			NMED SSL	8,850,000	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.34	0.214	mg/kg			NMED SSL	23.4	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.64	0.321	mg/kg			NMED SSL	3,130	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	24,100	3.21	mg/kg			NMED SSL	54,800	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	28.2	0.321	mg/kg			EPA RSL	200	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,100	10.7	mg/kg			NMED SSL	1,550,000	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	446	0.321	mg/kg			NMED SSL	464	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.0	0.321	mg/kg			NMED SSL	753	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,310	10.7	mg/kg			NMED SSL	15,600,000	no

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0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	692	10.7	mg/kg			NMED SSL	7,820,000	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.8	0.321	mg/kg			NMED SSL	96.6	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	41.9	0.161	mg/kg			NMED SSL	394	no
0725F2SS018-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	40.4	1.07	mg/kg			NMED SSL	23,500	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	37,600	5.64	mg/kg			NMED SSL	41,400	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.49	0.451	mg/kg			NMED SSL	7.07	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	348	0.225	mg/kg			NMED SSL	4,390	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.57	0.113	mg/kg			NMED SSL	148	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.186	0.225	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	29,800	11.3	mg/kg			NMED SSL	8,850,000	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.87	0.225	mg/kg			NMED SSL	23.4	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.69	0.338	mg/kg			NMED SSL	3,130	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	25,700	3.38	mg/kg			NMED SSL	54,800	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	28.1	0.338	mg/kg			EPA RSL	200	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	13,200	11.3	mg/kg			NMED SSL	1,550,000	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	452	0.338	mg/kg			NMED SSL	464	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	22.5	0.338	mg/kg			NMED SSL	753	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	8,300	11.3	mg/kg			NMED SSL	15,600,000	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.365	0.564	mg/kg	J	J	NMED SSL	391	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,020	11.3	mg/kg			NMED SSL	7,820,000	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	24.9	0.338	mg/kg			NMED SSL	96.6	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	45.3	0.169	mg/kg			NMED SSL	394	no
0725F2SS018-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	43.8	1.13	mg/kg			NMED SSL	23,500	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	39,000	6.19	mg/kg			NMED SSL	41,400	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.34	0.495	mg/kg			NMED SSL	7.07	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	321	0.248	mg/kg			NMED SSL	4,390	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.63	0.124	mg/kg			NMED SSL	148	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.176	0.248	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	31,900	12.4	mg/kg			NMED SSL	8,850,000	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.84	0.248	mg/kg			NMED SSL	23.4	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.1	0.371	mg/kg			NMED SSL	3,130	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	25,600	3.71	mg/kg			NMED SSL	54,800	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	30.1	0.371	mg/kg			EPA RSL	200	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	13,200	12.4	mg/kg			NMED SSL	1,550,000	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	447	0.371	mg/kg			NMED SSL	464	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	22.6	0.371	mg/kg			NMED SSL	753	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	8,140	12.4	mg/kg			NMED SSL	15,600,000	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	983	12.4	mg/kg			NMED SSL	7,820,000	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	25.5	0.371	mg/kg			NMED SSL	96.6	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	46.8	0.186	mg/kg			NMED SSL	394	no
0725F2SS019-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	42.3	1.24	mg/kg			NMED SSL	23,500	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	38,500	6.52	mg/kg			NMED SSL	41,400	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.25	0.522	mg/kg			NMED SSL	7.07	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	371	0.261	mg/kg			NMED SSL	4,390	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.57	0.130	mg/kg			NMED SSL	148	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.164	0.261	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	33,000	13.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.84	0.261	mg/kg			NMED SSL	23.4	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.44	0.391	mg/kg			NMED SSL	3,130	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	25,800	3.91	mg/kg			NMED SSL	54,800	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.1	0.391	mg/kg			EPA RSL	200	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	13,200	13.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	441	0.391	mg/kg			NMED SSL	464	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	22.8	0.391	mg/kg			NMED SSL	753	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,590	13.0	mg/kg			NMED SSL	15,600,000	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,400	13.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	25.0	0.391	mg/kg			NMED SSL	96.6	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	47.3	0.196	mg/kg			NMED SSL	394	no
0725F2SS019-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	41.3	1.30	mg/kg			NMED SSL	23,500	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	34,000	5.93	mg/kg			NMED SSL	41,400	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.49	0.475	mg/kg			NMED SSL	7.07	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	357	0.237	mg/kg			NMED SSL	4,390	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.39	0.119	mg/kg			NMED SSL	148	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.157	0.237	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	36,800	11.9	mg/kg			NMED SSL	8,850,000	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.12	0.237	mg/kg			NMED SSL	23.4	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	8.97	0.356	mg/kg			NMED SSL	3,130	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	23,500	3.56	mg/kg			NMED SSL	54,800	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	26.8	0.356	mg/kg			EPA RSL	200	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,000	11.9	mg/kg			NMED SSL	1,550,000	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	450	0.356	mg/kg			NMED SSL	464	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.9	0.356	mg/kg			NMED SSL	753	no

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0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,780	11.9	mg/kg			NMED SSL	15,600,000	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,060	11.9	mg/kg			NMED SSL	7,820,000	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.7	0.356	mg/kg			NMED SSL	96.6	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	42.7	0.178	mg/kg			NMED SSL	394	no
0725F2SS020-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	37.8	1.19	mg/kg			NMED SSL	23,500	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7429-90-5	Aluminum	34,900	6.17	mg/kg			NMED SSL	41,400	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-38-2	Arsenic	2.31	0.493	mg/kg			NMED SSL	7.07	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-39-3	Barium	347	0.247	mg/kg			NMED SSL	4,390	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-41-7	Beryllium	1.39	0.123	mg/kg			NMED SSL	148	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-43-9	Cadmium	0.171	0.247	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-70-2	Calcium	33,500	12.3	mg/kg			NMED SSL	8,850,000	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-48-4	Cobalt	9.04	0.247	mg/kg			NMED SSL	23.4	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-50-8	Copper	9.20	0.370	mg/kg			NMED SSL	3,130	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-89-6	Iron	23,700	3.70	mg/kg			NMED SSL	54,800	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-92-1	Lead	30.2	0.370	mg/kg			EPA RSL	200	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-95-4	Magnesium	12,000	12.3	mg/kg			NMED SSL	1,550,000	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7439-96-5	Manganese	441	0.370	mg/kg			NMED SSL	464	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-02-0	Nickel	20.7	0.370	mg/kg			NMED SSL	753	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-09-7	Potassium	7,170	12.3	mg/kg			NMED SSL	15,600,000	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-23-5	Sodium	1,060	12.3	mg/kg			NMED SSL	7,820,000	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-47-3	Total Chromium	22.2	0.370	mg/kg			NMED SSL	96.6	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-62-2	Vanadium	43.7	0.185	mg/kg			NMED SSL	394	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	SW6010B	7440-66-6	Zinc	39.2	1.23	mg/kg			NMED SSL	23,500	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	38,100	6.07	mg/kg			NMED SSL	41,400	no

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0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.43	0.486	mg/kg			NMED SSL	7.07	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	309	0.243	mg/kg			NMED SSL	4,390	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.46	0.121	mg/kg			NMED SSL	148	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.219	0.243	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	32,800	12.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.56	0.243	mg/kg			NMED SSL	23.4	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.68	0.364	mg/kg			NMED SSL	3,130	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	25,100	3.64	mg/kg			NMED SSL	54,800	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	30.3	0.364	mg/kg			EPA RSL	200	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,900	12.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	436	0.364	mg/kg			NMED SSL	464	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.8	0.364	mg/kg			NMED SSL	753	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	8,000	12.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.568	0.607	mg/kg	J	J	NMED SSL	391	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,350	12.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	24.1	0.364	mg/kg			NMED SSL	96.6	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	46.1	0.182	mg/kg			NMED SSL	394	no
0725F2SS020-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	42.7	1.21	mg/kg			NMED SSL	23,500	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	33,500	6.30	mg/kg			NMED SSL	41,400	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.69	0.504	mg/kg			NMED SSL	7.07	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	333	0.252	mg/kg			NMED SSL	4,390	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.43	0.126	mg/kg			NMED SSL	148	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	33,200	12.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.35	0.252	mg/kg			NMED SSL	23.4	no

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0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.5	0.378	mg/kg			NMED SSL	3,130	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	23,700	3.78	mg/kg			NMED SSL	54,800	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.1	0.378	mg/kg			EPA RSL	200	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,600	12.6	mg/kg			NMED SSL	1,550,000	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	469	0.378	mg/kg			NMED SSL	464	YES
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.0	0.378	mg/kg			NMED SSL	753	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,230	12.6	mg/kg			NMED SSL	15,600,000	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	682	12.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	23.2	0.378	mg/kg			NMED SSL	96.6	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	41.9	0.189	mg/kg			NMED SSL	394	no
0725F2SS021-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	41.9	1.26	mg/kg			NMED SSL	23,500	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	33,600	6.79	mg/kg			NMED SSL	41,400	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.74	0.543	mg/kg			NMED SSL	7.07	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	338	0.272	mg/kg			NMED SSL	4,390	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.49	0.136	mg/kg			NMED SSL	148	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	33,500	13.6	mg/kg			NMED SSL	8,850,000	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.17	0.272	mg/kg			NMED SSL	23.4	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.75	0.407	mg/kg			NMED SSL	3,130	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	23,800	4.07	mg/kg			NMED SSL	54,800	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	32.4	0.407	mg/kg			EPA RSL	200	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	12,100	13.6	mg/kg		J	NMED SSL	1,550,000	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	438	0.407	mg/kg			NMED SSL	464	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.1	0.407	mg/kg			NMED SSL	753	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,090	13.6	mg/kg		J	NMED SSL	15,600,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,020	13.6	mg/kg			NMED SSL	7,820,000	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	22.0	0.407	mg/kg			NMED SSL	96.6	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	42.9	0.204	mg/kg			NMED SSL	394	no
0725F2SS021-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	39.8	1.36	mg/kg			NMED SSL	23,500	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	32,700	6.56	mg/kg			NMED SSL	41,400	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	3.04	0.525	mg/kg			NMED SSL	7.07	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	320	0.262	mg/kg			NMED SSL	4,390	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.45	0.131	mg/kg			NMED SSL	148	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-43-9	Cadmium	0.156	0.262	mg/kg	J	J	NMED SSL	70.5	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	28,700	13.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	9.64	0.262	mg/kg			NMED SSL	23.4	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	12.4	0.394	mg/kg			NMED SSL	3,130	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	24,000	3.94	mg/kg			NMED SSL	54,800	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.2	0.394	mg/kg			EPA RSL	200	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,300	13.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	472	0.394	mg/kg			NMED SSL	464	YES
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	21.6	0.394	mg/kg			NMED SSL	753	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	7,300	13.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	622	13.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	22.9	0.394	mg/kg			NMED SSL	96.6	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	42.7	0.197	mg/kg			NMED SSL	394	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	77.9	1.31	mg/kg			NMED SSL	23,500	no
0725F2SS022-0.0-0.5DSO	8/19/2014	SW7471A	7439-97-6	Mercury	0.0205	0.0282	mg/kg	J	J	NMED SSL	20.7	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	32,600	6.49	mg/kg			NMED SSL	41,400	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.39	0.520	mg/kg			NMED SSL	7.07	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	321	0.260	mg/kg			NMED SSL	4,390	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.38	0.130	mg/kg			NMED SSL	148	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	32,800	13.0	mg/kg			NMED SSL	8,850,000	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.90	0.260	mg/kg			NMED SSL	23.4	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	8.67	0.390	mg/kg			NMED SSL	3,130	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,800	3.90	mg/kg			NMED SSL	54,800	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.1	0.390	mg/kg			EPA RSL	200	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	11,800	13.0	mg/kg			NMED SSL	1,550,000	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	445	0.390	mg/kg			NMED SSL	464	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	20.6	0.390	mg/kg			NMED SSL	753	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,530	13.0	mg/kg			NMED SSL	15,600,000	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	1,100	13.0	mg/kg			NMED SSL	7,820,000	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	21.5	0.390	mg/kg			NMED SSL	96.6	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	41.5	0.195	mg/kg			NMED SSL	394	no
0725F2SS022-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	37.8	1.30	mg/kg			NMED SSL	23,500	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	30,400	6.53	mg/kg			NMED SSL	41,400	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.81	0.522	mg/kg			NMED SSL	7.07	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-39-3	Barium	329	0.261	mg/kg			NMED SSL	4,390	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.38	0.131	mg/kg			NMED SSL	148	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-70-2	Calcium	26,900	13.1	mg/kg			NMED SSL	8,850,000	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.90	0.261	mg/kg			NMED SSL	23.4	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-50-8	Copper	10.2	0.392	mg/kg			NMED SSL	3,130	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,800	3.92	mg/kg			NMED SSL	54,800	no

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0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7439-92-1	Lead	32.4	0.392	mg/kg			EPA RSL	200	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	10,800	13.1	mg/kg			NMED SSL	1,550,000	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7439-96-5	Manganese	441	0.392	mg/kg			NMED SSL	464	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-02-0	Nickel	19.6	0.392	mg/kg			NMED SSL	753	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,450	13.1	mg/kg			NMED SSL	15,600,000	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7782-49-2	Selenium	0.465	0.653	mg/kg	J	J	NMED SSL	391	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-23-5	Sodium	713	13.1	mg/kg			NMED SSL	7,820,000	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	20.5	0.392	mg/kg			NMED SSL	96.6	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	41.5	0.196	mg/kg			NMED SSL	394	no
0725F2SS023-0.0-0.5DSO	8/19/2014	SW6010B	7440-66-6	Zinc	45.8	1.31	mg/kg			NMED SSL	23,500	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7429-90-5	Aluminum	31,000	6.62	mg/kg			NMED SSL	41,400	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-38-2	Arsenic	2.64	0.530	mg/kg			NMED SSL	7.07	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-39-3	Barium	299	0.265	mg/kg			NMED SSL	4,390	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-41-7	Beryllium	1.36	0.132	mg/kg			NMED SSL	148	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-70-2	Calcium	25,700	13.2	mg/kg			NMED SSL	8,850,000	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-48-4	Cobalt	8.83	0.265	mg/kg			NMED SSL	23.4	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-50-8	Copper	9.59	0.397	mg/kg			NMED SSL	3,130	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7439-89-6	Iron	22,800	3.97	mg/kg			NMED SSL	54,800	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7439-92-1	Lead	31.4	0.397	mg/kg			EPA RSL	200	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7439-95-4	Magnesium	10,700	13.2	mg/kg			NMED SSL	1,550,000	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7439-96-5	Manganese	440	0.397	mg/kg			NMED SSL	464	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-02-0	Nickel	19.7	0.397	mg/kg			NMED SSL	753	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-09-7	Potassium	6,450	13.2	mg/kg			NMED SSL	15,600,000	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-23-5	Sodium	822	13.2	mg/kg			NMED SSL	7,820,000	no

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0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-47-3	Total Chromium	20.5	0.397	mg/kg			NMED SSL	96.6	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-62-2	Vanadium	41.2	0.199	mg/kg			NMED SSL	394	no
0725F2SS023-0.5-1.0DSO	8/19/2014	SW6010B	7440-66-6	Zinc	45.5	1.32	mg/kg			NMED SSL	23,500	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	24,800	5.13	mg/kg			NMED SSL	41,400	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.63	0.410	mg/kg			NMED SSL	7.07	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	410	0.205	mg/kg			NMED SSL	4,390	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.06	0.103	mg/kg			NMED SSL	148	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.134	0.205	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	37,600	10.3	mg/kg			NMED SSL	8,850,000	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	6.65	0.205	mg/kg			NMED SSL	23.4	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	8.31	0.308	mg/kg			NMED SSL	3,130	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	17,700	3.08	mg/kg			NMED SSL	54,800	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	89.3	0.308	mg/kg			EPA RSL	200	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	8,950	10.3	mg/kg			NMED SSL	1,550,000	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	465	0.308	mg/kg			NMED SSL	464	YES
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	14.5	0.308	mg/kg			NMED SSL	753	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,480	10.3	mg/kg			NMED SSL	15,600,000	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	260	10.3	mg/kg			NMED SSL	7,820,000	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	17.6	0.308	mg/kg			NMED SSL	96.6	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	36.2	0.154	mg/kg			NMED SSL	394	no
0725F5SS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	36.4	1.03	mg/kg			NMED SSL	23,500	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	31,400	5.50	mg/kg			NMED SSL	41,400	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.66	0.440	mg/kg			NMED SSL	7.07	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	363	0.220	mg/kg			NMED SSL	4,390	no

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0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.23	0.110	mg/kg			NMED SSL	148	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.128	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	34,900	11.0	mg/kg			NMED SSL	8,850,000	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.72	0.220	mg/kg			NMED SSL	23.4	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	7.87	0.330	mg/kg			NMED SSL	3,130	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	20,100	3.30	mg/kg			NMED SSL	54,800	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	14.3	0.330	mg/kg			EPA RSL	200	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,400	11.0	mg/kg			NMED SSL	1,550,000	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	457	0.330	mg/kg			NMED SSL	464	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	17.3	0.330	mg/kg			NMED SSL	753	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,200	11.0	mg/kg			NMED SSL	15,600,000	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,500	11.0	mg/kg			NMED SSL	7,820,000	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	21.3	0.330	mg/kg			NMED SSL	96.6	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	39.2	0.165	mg/kg			NMED SSL	394	no
0725F5SS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	33.5	1.10	mg/kg			NMED SSL	23,500	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	34,300	5.41	mg/kg			NMED SSL	41,400	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.51	0.432	mg/kg			NMED SSL	7.07	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	353	0.216	mg/kg			NMED SSL	4,390	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.39	0.108	mg/kg			NMED SSL	148	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.227	0.216	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	39,000	10.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.68	0.216	mg/kg			NMED SSL	23.4	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	22.2	0.324	mg/kg			NMED SSL	3,130	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	22,300	3.24	mg/kg			NMED SSL	54,800	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	21.9	0.324	mg/kg			EPA RSL	200	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,500	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	490	0.324	mg/kg			NMED SSL	464	YES
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	19.6	0.324	mg/kg			NMED SSL	753	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,730	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,470	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	23.5	0.324	mg/kg			NMED SSL	96.6	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	41.5	0.162	mg/kg			NMED SSL	394	no
0725F5SS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	49.6	1.08	mg/kg			NMED SSL	23,500	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	35,200	5.56	mg/kg			NMED SSL	41,400	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.88	0.444	mg/kg			NMED SSL	7.07	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	358	0.222	mg/kg			NMED SSL	4,390	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.47	0.111	mg/kg			NMED SSL	148	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.197	0.222	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	40,500	11.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.20	0.222	mg/kg			NMED SSL	23.4	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	24.2	0.333	mg/kg			NMED SSL	3,130	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	23,300	3.33	mg/kg			NMED SSL	54,800	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	24.9	0.333	mg/kg			EPA RSL	200	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	12,000	11.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	522	0.333	mg/kg			NMED SSL	464	YES
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	20.7	0.333	mg/kg			NMED SSL	753	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,730	11.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	2,600	11.1	mg/kg			NMED SSL	7,820,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	24.5	0.333	mg/kg			NMED SSL	96.6	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	43.5	0.167	mg/kg			NMED SSL	394	no
0725F5SS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	51.0	1.11	mg/kg			NMED SSL	23,500	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	8,080	5.32	mg/kg			NMED SSL	41,400	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	4.48	0.426	mg/kg			NMED SSL	7.07	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	248	0.213	mg/kg			NMED SSL	4,390	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.05	0.106	mg/kg	J	J	NMED SSL	148	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.122	0.213	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	12,800	10.6	mg/kg			NMED SSL	8,850,000	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	3.72	0.213	mg/kg			NMED SSL	23.4	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	12.9	0.319	mg/kg			NMED SSL	3,130	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	10,100	3.19	mg/kg			NMED SSL	54,800	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	21.4	0.319	mg/kg			EPA RSL	200	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	2,750	10.6	mg/kg			NMED SSL	1,550,000	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	229	0.319	mg/kg			NMED SSL	464	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	7.34	0.319	mg/kg			NMED SSL	753	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	2,520	10.6	mg/kg			NMED SSL	15,600,000	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	1.28	0.532	mg/kg			NMED SSL	391	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	224	10.6	mg/kg			NMED SSL	7,820,000	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	8.13	0.319	mg/kg			NMED SSL	96.6	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	25.3	0.160	mg/kg			NMED SSL	394	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	24.3	1.06	mg/kg			NMED SSL	23,500	no
0725F5SS003-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0421	0.0215	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7429-90-5	Aluminum	10,500	5.42	mg/kg			NMED SSL	41,400	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-38-2	Arsenic	5.57	0.434	mg/kg			NMED SSL	7.07	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-39-3	Barium	268	0.217	mg/kg			NMED SSL	4,390	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-41-7	Beryllium	1.06	0.108	mg/kg	J	J	NMED SSL	148	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-43-9	Cadmium	0.132	0.217	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-70-2	Calcium	12,000	10.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-48-4	Cobalt	4.65	0.217	mg/kg			NMED SSL	23.4	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-50-8	Copper	13.3	0.325	mg/kg			NMED SSL	3,130	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7439-89-6	Iron	11,000	3.25	mg/kg			NMED SSL	54,800	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7439-92-1	Lead	25.7	0.325	mg/kg			EPA RSL	200	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7439-95-4	Magnesium	3,500	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7439-96-5	Manganese	289	0.325	mg/kg			NMED SSL	464	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-02-0	Nickel	8.63	0.325	mg/kg			NMED SSL	753	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-09-7	Potassium	3,040	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7782-49-2	Selenium	1.41	0.542	mg/kg			NMED SSL	391	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-23-5	Sodium	193	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-47-3	Total Chromium	9.24	0.325	mg/kg			NMED SSL	96.6	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-62-2	Vanadium	24.3	0.163	mg/kg			NMED SSL	394	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW6010B	7440-66-6	Zinc	30.3	1.08	mg/kg			NMED SSL	23,500	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	SW7471A	7439-97-6	Mercury	0.0354	0.0217	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	7,990	5.31	mg/kg			NMED SSL	41,400	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	5.51	0.425	mg/kg			NMED SSL	7.07	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	216	0.212	mg/kg			NMED SSL	4,390	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.04	0.106	mg/kg	J	J	NMED SSL	148	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.195	0.212	mg/kg	J	J	NMED SSL	70.5	no

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0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	13,500	10.6	mg/kg			NMED SSL	8,850,000	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	3.70	0.212	mg/kg			NMED SSL	23.4	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	11.9	0.319	mg/kg			NMED SSL	3,130	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	8,820	3.19	mg/kg			NMED SSL	54,800	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	22.6	0.319	mg/kg			EPA RSL	200	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	2,700	10.6	mg/kg			NMED SSL	1,550,000	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	232	0.319	mg/kg			NMED SSL	464	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	7.31	0.319	mg/kg			NMED SSL	753	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	1,800	10.6	mg/kg			NMED SSL	15,600,000	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7782-49-2	Selenium	1.67	0.531	mg/kg			NMED SSL	391	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	308	10.6	mg/kg			NMED SSL	7,820,000	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	7.38	0.319	mg/kg			NMED SSL	96.6	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	20.7	0.159	mg/kg			NMED SSL	394	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	26.5	1.06	mg/kg			NMED SSL	23,500	no
0725F5SS003-0.5-1.0DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0407	0.0218	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	28,000	5.44	mg/kg			NMED SSL	41,400	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.52	0.435	mg/kg			NMED SSL	7.07	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	339	0.218	mg/kg			NMED SSL	4,390	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.25	0.109	mg/kg			NMED SSL	148	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.156	0.218	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	35,800	10.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.53	0.218	mg/kg			NMED SSL	23.4	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	9.67	0.326	mg/kg			NMED SSL	3,130	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	19,200	3.26	mg/kg			NMED SSL	54,800	no

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0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	19.6	0.326	mg/kg			EPA RSL	200	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,640	10.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	459	0.326	mg/kg			NMED SSL	464	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.6	0.326	mg/kg			NMED SSL	753	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,890	10.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.338	0.544	mg/kg	J	J	NMED SSL	391	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	695	10.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	19.2	0.326	mg/kg			NMED SSL	96.6	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	37.2	0.163	mg/kg			NMED SSL	394	no
0725F5SS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	38.1	1.09	mg/kg			NMED SSL	23,500	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	28,600	5.01	mg/kg			NMED SSL	41,400	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.63	0.401	mg/kg			NMED SSL	7.07	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	359	0.200	mg/kg			NMED SSL	4,390	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.22	0.100	mg/kg			NMED SSL	148	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.169	0.200	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	36,100	10.0	mg/kg			NMED SSL	8,850,000	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.43	0.200	mg/kg			NMED SSL	23.4	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	10.1	0.301	mg/kg			NMED SSL	3,130	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	19,700	3.01	mg/kg			NMED SSL	54,800	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	17.4	0.301	mg/kg			EPA RSL	200	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,670	10.0	mg/kg			NMED SSL	1,550,000	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	441	0.301	mg/kg			NMED SSL	464	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.4	0.301	mg/kg			NMED SSL	753	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,760	10.0	mg/kg			NMED SSL	15,600,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,140	10.0	mg/kg			NMED SSL	7,820,000	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	20.4	0.301	mg/kg			NMED SSL	96.6	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	38.9	0.150	mg/kg			NMED SSL	394	no
0725F5SS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	36.9	1.00	mg/kg			NMED SSL	23,500	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	37,600	5.78	mg/kg			NMED SSL	41,400	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.75	0.462	mg/kg			NMED SSL	7.07	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	353	0.231	mg/kg			NMED SSL	4,390	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.50	0.116	mg/kg			NMED SSL	148	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.248	0.231	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	37,900	11.6	mg/kg			NMED SSL	8,850,000	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.20	0.231	mg/kg			NMED SSL	23.4	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	23.1	0.347	mg/kg			NMED SSL	3,130	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	23,600	3.47	mg/kg			NMED SSL	54,800	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	23.8	0.347	mg/kg			EPA RSL	200	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	12,100	11.6	mg/kg			NMED SSL	1,550,000	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	482	0.347	mg/kg			NMED SSL	464	YES
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	20.8	0.347	mg/kg			NMED SSL	753	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	7,250	11.6	mg/kg			NMED SSL	15,600,000	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,090	11.6	mg/kg			NMED SSL	7,820,000	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	25.0	0.347	mg/kg			NMED SSL	96.6	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	45.1	0.173	mg/kg			NMED SSL	394	no
0725F5SS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	80.3	1.16	mg/kg			NMED SSL	23,500	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	36,900	5.87	mg/kg			NMED SSL	41,400	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.59	0.469	mg/kg			NMED SSL	7.07	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	329	0.235	mg/kg			NMED SSL	4,390	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.49	0.117	mg/kg			NMED SSL	148	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.204	0.235	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	40,600	11.7	mg/kg			NMED SSL	8,850,000	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.41	0.235	mg/kg			NMED SSL	23.4	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	24.3	0.352	mg/kg			NMED SSL	3,130	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	23,900	3.52	mg/kg			NMED SSL	54,800	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	20.9	0.352	mg/kg			EPA RSL	200	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	12,200	11.7	mg/kg			NMED SSL	1,550,000	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	509	0.352	mg/kg			NMED SSL	464	YES
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	21.2	0.352	mg/kg			NMED SSL	753	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,790	11.7	mg/kg			NMED SSL	15,600,000	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	2,090	11.7	mg/kg			NMED SSL	7,820,000	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	24.5	0.352	mg/kg			NMED SSL	96.6	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	44.5	0.176	mg/kg			NMED SSL	394	no
0725F5SS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	47.0	1.17	mg/kg			NMED SSL	23,500	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	34,400	5.70	mg/kg			NMED SSL	41,400	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-36-0	Antimony	3.00	3.42	mg/kg	J	J	NMED SSL	31.3	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.59	0.456	mg/kg			NMED SSL	7.07	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	341	0.228	mg/kg			NMED SSL	4,390	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.38	0.114	mg/kg			NMED SSL	148	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.262	0.228	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	33,500	11.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.64	0.228	mg/kg			NMED SSL	23.4	no

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0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	11.5	0.342	mg/kg			NMED SSL	3,130	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	22,100	3.42	mg/kg			NMED SSL	54,800	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	27.9	0.342	mg/kg			EPA RSL	200	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,200	11.4	mg/kg			NMED SSL	1,550,000	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	449	0.342	mg/kg			NMED SSL	464	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	19.4	0.342	mg/kg			NMED SSL	753	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,630	11.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.429	0.570	mg/kg	J	J	NMED SSL	391	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,320	11.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	23.0	0.342	mg/kg			NMED SSL	96.6	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	41.4	0.171	mg/kg			NMED SSL	394	no
0725F5SS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	67.9	1.14	mg/kg			NMED SSL	23,500	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	34,500	5.75	mg/kg			NMED SSL	41,400	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-36-0	Antimony	7.28	3.45	mg/kg	J	J	NMED SSL	31.3	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.05	0.460	mg/kg			NMED SSL	7.07	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	658	0.230	mg/kg			NMED SSL	4,390	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.47	0.115	mg/kg			NMED SSL	148	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.769	0.230	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	35,600	11.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.17	0.230	mg/kg			NMED SSL	23.4	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	23.4	0.345	mg/kg			NMED SSL	3,130	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	31,700	3.45	mg/kg			NMED SSL	54,800	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	134	0.345	mg/kg			EPA RSL	200	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,400	11.5	mg/kg			NMED SSL	1,550,000	no

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0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	531	0.345	mg/kg			NMED SSL	464	YES
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	21.7	0.345	mg/kg			NMED SSL	753	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,700	11.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	2,040	11.5	mg/kg			NMED SSL	7,820,000	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	28.0	0.345	mg/kg			NMED SSL	96.6	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	43.7	0.172	mg/kg			NMED SSL	394	no
0725F5SS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	463	1.15	mg/kg			NMED SSL	23,500	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	30,400	5.44	mg/kg			NMED SSL	41,400	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.27	0.435	mg/kg			NMED SSL	7.07	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	345	0.217	mg/kg			NMED SSL	4,390	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.32	0.109	mg/kg			NMED SSL	148	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.127	0.217	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	40,100	10.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.22	0.217	mg/kg			NMED SSL	23.4	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	8.42	0.326	mg/kg			NMED SSL	3,130	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	21,000	3.26	mg/kg			NMED SSL	54,800	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	14.6	0.326	mg/kg			EPA RSL	200	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,700	10.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	506	0.326	mg/kg			NMED SSL	464	YES
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	18.7	0.326	mg/kg			NMED SSL	753	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,820	10.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,400	10.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.326	mg/kg			NMED SSL	96.6	no
0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	37.8	0.163	mg/kg			NMED SSL	394	no

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0725F5SS007-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	34.0	1.09	mg/kg			NMED SSL	23,500	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	34,200	5.56	mg/kg			NMED SSL	41,400	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.42	0.444	mg/kg			NMED SSL	7.07	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	360	0.222	mg/kg			NMED SSL	4,390	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.42	0.111	mg/kg			NMED SSL	148	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.128	0.222	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	46,100	11.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.98	0.222	mg/kg			NMED SSL	23.4	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	8.70	0.333	mg/kg			NMED SSL	3,130	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	22,900	3.33	mg/kg			NMED SSL	54,800	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	14.8	0.333	mg/kg			EPA RSL	200	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,900	11.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	548	0.333	mg/kg			NMED SSL	464	YES
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	20.5	0.333	mg/kg			NMED SSL	753	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,450	11.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	2,010	11.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	24.0	0.333	mg/kg			NMED SSL	96.6	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	42.2	0.167	mg/kg			NMED SSL	394	no
0725F5SS007-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	36.4	1.11	mg/kg			NMED SSL	23,500	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7429-90-5	Aluminum	36,000	5.68	mg/kg			NMED SSL	41,400	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-38-2	Arsenic	2.75	0.454	mg/kg			NMED SSL	7.07	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-39-3	Barium	345	0.227	mg/kg			NMED SSL	4,390	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-41-7	Beryllium	1.44	0.114	mg/kg			NMED SSL	148	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-43-9	Cadmium	0.176	0.227	mg/kg	J	J	NMED SSL	70.5	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-70-2	Calcium	42,800	11.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-48-4	Cobalt	9.12	0.227	mg/kg			NMED SSL	23.4	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-50-8	Copper	8.82	0.341	mg/kg			NMED SSL	3,130	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-89-6	Iron	23,300	3.41	mg/kg			NMED SSL	54,800	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-92-1	Lead	14.8	0.341	mg/kg			EPA RSL	200	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-95-4	Magnesium	12,200	11.4	mg/kg			NMED SSL	1,550,000	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-96-5	Manganese	532	0.341	mg/kg			NMED SSL	464	YES
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-02-0	Nickel	20.9	0.341	mg/kg			NMED SSL	753	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-09-7	Potassium	7,120	11.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7782-49-2	Selenium	0.700	0.568	mg/kg	J	J	NMED SSL	391	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-23-5	Sodium	1,900	11.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-47-3	Total Chromium	24.9	0.341	mg/kg			NMED SSL	96.6	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-62-2	Vanadium	43.8	0.170	mg/kg			NMED SSL	394	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-66-6	Zinc	37.8	1.14	mg/kg			NMED SSL	23,500	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	33,600	5.35	mg/kg			NMED SSL	41,400	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.58	0.428	mg/kg			NMED SSL	7.07	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	327	0.214	mg/kg			NMED SSL	4,390	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.37	0.107	mg/kg			NMED SSL	148	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.143	0.214	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	36,800	10.7	mg/kg			NMED SSL	8,850,000	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.58	0.214	mg/kg			NMED SSL	23.4	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	8.36	0.321	mg/kg			NMED SSL	3,130	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	22,200	3.21	mg/kg			NMED SSL	54,800	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	14.7	0.321	mg/kg			EPA RSL	200	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,500	10.7	mg/kg			NMED SSL	1,550,000	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	488	0.321	mg/kg			NMED SSL	464	YES
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	19.6	0.321	mg/kg			NMED SSL	753	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,840	10.7	mg/kg			NMED SSL	15,600,000	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,430	10.7	mg/kg			NMED SSL	7,820,000	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	22.9	0.321	mg/kg			NMED SSL	96.6	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	40.9	0.160	mg/kg			NMED SSL	394	no
0725F5SS008-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	36.6	1.07	mg/kg			NMED SSL	23,500	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	35,100	5.55	mg/kg			NMED SSL	41,400	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.01	0.444	mg/kg			NMED SSL	7.07	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	336	0.222	mg/kg			NMED SSL	4,390	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.45	0.111	mg/kg			NMED SSL	148	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.156	0.222	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	38,900	11.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.07	0.222	mg/kg			NMED SSL	23.4	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	8.60	0.333	mg/kg			NMED SSL	3,130	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	23,300	3.33	mg/kg			NMED SSL	54,800	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	15.2	0.333	mg/kg			EPA RSL	200	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	12,000	11.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	510	0.333	mg/kg			NMED SSL	464	YES
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	20.5	0.333	mg/kg			NMED SSL	753	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	7,020	11.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,670	11.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	24.2	0.333	mg/kg			NMED SSL	96.6	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	42.7	0.166	mg/kg			NMED SSL	394	no
0725F5SS008-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	38.2	1.11	mg/kg			NMED SSL	23,500	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	22,000	5.36	mg/kg			NMED SSL	41,400	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.75	0.429	mg/kg			NMED SSL	7.07	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	438	0.215	mg/kg			NMED SSL	4,390	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.04	0.107	mg/kg	J	J	NMED SSL	148	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	39,000	10.7	mg/kg			NMED SSL	8,850,000	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	6.31	0.215	mg/kg			NMED SSL	23.4	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	7.85	0.322	mg/kg			NMED SSL	3,130	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	16,700	3.22	mg/kg			NMED SSL	54,800	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	12.7	0.322	mg/kg			EPA RSL	200	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	8,360	10.7	mg/kg			NMED SSL	1,550,000	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	474	0.322	mg/kg			NMED SSL	464	YES
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	13.7	0.322	mg/kg			NMED SSL	753	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,610	10.7	mg/kg		J	NMED SSL	15,600,000	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	650	10.7	mg/kg			NMED SSL	7,820,000	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	16.4	0.322	mg/kg			NMED SSL	96.6	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	34.9	0.161	mg/kg			NMED SSL	394	no
0725F5SS009-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	27.0	1.07	mg/kg			NMED SSL	23,500	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	26,500	5.22	mg/kg			NMED SSL	41,400	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.73	0.418	mg/kg			NMED SSL	7.07	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	325	0.209	mg/kg			NMED SSL	4,390	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.18	0.104	mg/kg			NMED SSL	148	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.120	0.209	mg/kg	J	J	NMED SSL	70.5	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	37,200	10.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.14	0.209	mg/kg			NMED SSL	23.4	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	7.84	0.313	mg/kg			NMED SSL	3,130	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	18,300	3.13	mg/kg			NMED SSL	54,800	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	13.5	0.313	mg/kg			EPA RSL	200	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,280	10.4	mg/kg			NMED SSL	1,550,000	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	470	0.313	mg/kg			NMED SSL	464	YES
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.0	0.313	mg/kg			NMED SSL	753	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,240	10.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,140	10.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	18.6	0.313	mg/kg			NMED SSL	96.6	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	36.0	0.157	mg/kg			NMED SSL	394	no
0725F5SS009-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	29.5	1.04	mg/kg			NMED SSL	23,500	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	30,800	5.21	mg/kg			NMED SSL	41,400	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.71	0.417	mg/kg			NMED SSL	7.07	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	336	0.208	mg/kg			NMED SSL	4,390	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.41	0.104	mg/kg			NMED SSL	148	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.239	0.208	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	33,800	10.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.35	0.208	mg/kg			NMED SSL	23.4	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	14.1	0.313	mg/kg			NMED SSL	3,130	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	21,500	3.13	mg/kg			NMED SSL	54,800	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	34.3	0.313	mg/kg			EPA RSL	200	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,800	10.4	mg/kg			NMED SSL	1,550,000	no

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0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	455	0.313	mg/kg			NMED SSL	464	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	18.7	0.313	mg/kg			NMED SSL	753	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,520	10.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	994	10.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	21.9	0.313	mg/kg			NMED SSL	96.6	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	38.7	0.156	mg/kg			NMED SSL	394	no
0725F5SS010-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	78.5	1.04	mg/kg			NMED SSL	23,500	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	30,500	5.56	mg/kg			NMED SSL	41,400	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.99	0.444	mg/kg			NMED SSL	7.07	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	343	0.222	mg/kg			NMED SSL	4,390	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.41	0.111	mg/kg			NMED SSL	148	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.292	0.222	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	39,300	11.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.39	0.222	mg/kg			NMED SSL	23.4	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	15.4	0.333	mg/kg			NMED SSL	3,130	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	22,000	3.33	mg/kg			NMED SSL	54,800	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	40.2	0.333	mg/kg			EPA RSL	200	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,700	11.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	518	0.333	mg/kg			NMED SSL	464	YES
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	18.8	0.333	mg/kg			NMED SSL	753	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,820	11.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.503	0.556	mg/kg	J	J	NMED SSL	391	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,920	11.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	21.6	0.333	mg/kg			NMED SSL	96.6	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	40.2	0.167	mg/kg			NMED SSL	394	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	109	1.11	mg/kg			NMED SSL	23,500	no
0725F5SS010-0.5-1.0DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0252	0.0225	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	30,200	5.77	mg/kg			NMED SSL	41,400	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.76	0.461	mg/kg			NMED SSL	7.07	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	291	0.231	mg/kg			NMED SSL	4,390	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.33	0.115	mg/kg			NMED SSL	148	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	35,900	11.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.31	0.231	mg/kg			NMED SSL	23.4	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	9.22	0.346	mg/kg			NMED SSL	3,130	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	21,200	3.46	mg/kg			NMED SSL	54,800	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	14.9	0.346	mg/kg			EPA RSL	200	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,500	11.5	mg/kg			NMED SSL	1,550,000	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	472	0.346	mg/kg			NMED SSL	464	YES
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	18.5	0.346	mg/kg			NMED SSL	753	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	5,940	11.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,130	11.5	mg/kg			NMED SSL	7,820,000	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	20.9	0.346	mg/kg			NMED SSL	96.6	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	37.9	0.173	mg/kg			NMED SSL	394	no
0725F5SS011-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	37.4	1.15	mg/kg			NMED SSL	23,500	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	34,800	6.11	mg/kg			NMED SSL	41,400	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.24	0.489	mg/kg			NMED SSL	7.07	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	458	0.244	mg/kg			NMED SSL	4,390	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.48	0.122	mg/kg			NMED SSL	148	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	36,100	12.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	9.08	0.244	mg/kg			NMED SSL	23.4	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	9.59	0.367	mg/kg			NMED SSL	3,130	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	23,400	3.67	mg/kg			NMED SSL	54,800	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	15.1	0.367	mg/kg			EPA RSL	200	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	11,700	12.2	mg/kg			NMED SSL	1,550,000	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	475	0.367	mg/kg			NMED SSL	464	YES
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	20.3	0.367	mg/kg			NMED SSL	753	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,590	12.2	mg/kg			NMED SSL	15,600,000	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	2,030	12.2	mg/kg			NMED SSL	7,820,000	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	23.7	0.367	mg/kg			NMED SSL	96.6	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	43.4	0.183	mg/kg			NMED SSL	394	no
0725F5SS011-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	39.0	1.22	mg/kg			NMED SSL	23,500	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,300	5.99	mg/kg			NMED SSL	41,400	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.98	0.479	mg/kg			NMED SSL	7.07	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	336	0.240	mg/kg			NMED SSL	4,390	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.28	0.120	mg/kg			NMED SSL	148	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	39,100	12.0	mg/kg			NMED SSL	8,850,000	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.39	0.240	mg/kg			NMED SSL	23.4	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.66	0.359	mg/kg			NMED SSL	3,130	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,600	3.59	mg/kg			NMED SSL	54,800	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	29.9	0.359	mg/kg			EPA RSL	200	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,600	12.0	mg/kg			NMED SSL	1,550,000	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	522	0.359	mg/kg			NMED SSL	464	YES

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	19.3	0.359	mg/kg			NMED SSL	753	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,260	12.0	mg/kg			NMED SSL	15,600,000	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,500	12.0	mg/kg			NMED SSL	7,820,000	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.2	0.359	mg/kg			NMED SSL	96.6	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.7	0.180	mg/kg			NMED SSL	394	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	33.4	1.20	mg/kg			NMED SSL	23,500	no
0725F5SS012-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0126	0.0237	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,000	5.40	mg/kg			NMED SSL	41,400	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.39	0.432	mg/kg			NMED SSL	7.07	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	331	0.216	mg/kg			NMED SSL	4,390	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.27	0.108	mg/kg			NMED SSL	148	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	40,400	10.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.17	0.216	mg/kg			NMED SSL	23.4	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.84	0.324	mg/kg			NMED SSL	3,130	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,500	3.24	mg/kg			NMED SSL	54,800	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	27.0	0.324	mg/kg			EPA RSL	200	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,500	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	503	0.324	mg/kg			NMED SSL	464	YES
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	18.8	0.324	mg/kg			NMED SSL	753	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,230	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,480	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.5	0.324	mg/kg			NMED SSL	96.6	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	38.2	0.162	mg/kg			NMED SSL	394	no
0725F5SS012-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	32.6	1.08	mg/kg			NMED SSL	23,500	no

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0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	25,700	5.30	mg/kg			NMED SSL	41,400	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.71	0.424	mg/kg			NMED SSL	7.07	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	330	0.212	mg/kg			NMED SSL	4,390	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.19	0.106	mg/kg			NMED SSL	148	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,700	10.6	mg/kg			NMED SSL	8,850,000	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.38	0.212	mg/kg			NMED SSL	23.4	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.80	0.318	mg/kg			NMED SSL	3,130	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,600	3.18	mg/kg			NMED SSL	54,800	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	24.5	0.318	mg/kg			EPA RSL	200	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,960	10.6	mg/kg			NMED SSL	1,550,000	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	487	0.318	mg/kg			NMED SSL	464	YES
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	16.5	0.318	mg/kg			NMED SSL	753	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,410	10.6	mg/kg			NMED SSL	15,600,000	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,160	10.6	mg/kg			NMED SSL	7,820,000	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.0	0.318	mg/kg			NMED SSL	96.6	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	33.9	0.159	mg/kg			NMED SSL	394	no
0725F5SS013-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	30.2	1.06	mg/kg			NMED SSL	23,500	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7429-90-5	Aluminum	27,400	5.22	mg/kg			NMED SSL	41,400	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-38-2	Arsenic	2.68	0.418	mg/kg			NMED SSL	7.07	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-39-3	Barium	326	0.209	mg/kg			NMED SSL	4,390	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-41-7	Beryllium	1.21	0.104	mg/kg			NMED SSL	148	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-70-2	Calcium	35,400	10.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-48-4	Cobalt	7.56	0.209	mg/kg			NMED SSL	23.4	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-50-8	Copper	7.66	0.313	mg/kg			NMED SSL	3,130	no

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0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-89-6	Iron	19,000	3.13	mg/kg			NMED SSL	54,800	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-92-1	Lead	24.6	0.313	mg/kg			EPA RSL	200	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-95-4	Magnesium	10,300	10.4	mg/kg			NMED SSL	1,550,000	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-96-5	Manganese	481	0.313	mg/kg			NMED SSL	464	YES
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-02-0	Nickel	17.0	0.313	mg/kg			NMED SSL	753	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-09-7	Potassium	4,710	10.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-23-5	Sodium	1,190	10.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.8	0.313	mg/kg			NMED SSL	96.6	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-62-2	Vanadium	34.6	0.157	mg/kg			NMED SSL	394	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-66-6	Zinc	31.3	1.04	mg/kg			NMED SSL	23,500	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	30,600	5.23	mg/kg			NMED SSL	41,400	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.74	0.419	mg/kg			NMED SSL	7.07	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	310	0.209	mg/kg			NMED SSL	4,390	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.29	0.105	mg/kg			NMED SSL	148	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,700	10.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.13	0.209	mg/kg			NMED SSL	23.4	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.82	0.314	mg/kg			NMED SSL	3,130	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,300	3.14	mg/kg			NMED SSL	54,800	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	24.8	0.314	mg/kg			EPA RSL	200	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,400	10.5	mg/kg			NMED SSL	1,550,000	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	486	0.314	mg/kg			NMED SSL	464	YES
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	18.3	0.314	mg/kg			NMED SSL	753	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,420	10.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,510	10.5	mg/kg			NMED SSL	7,820,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.4	0.314	mg/kg			NMED SSL	96.6	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	36.6	0.157	mg/kg			NMED SSL	394	no
0725F5SS013-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	33.9	1.05	mg/kg			NMED SSL	23,500	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	28,300	5.43	mg/kg			NMED SSL	41,400	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.76	0.434	mg/kg			NMED SSL	7.07	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	346	0.217	mg/kg			NMED SSL	4,390	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.25	0.109	mg/kg			NMED SSL	148	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	37,100	10.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.83	0.217	mg/kg			NMED SSL	23.4	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.49	0.326	mg/kg			NMED SSL	3,130	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	19,500	3.26	mg/kg			NMED SSL	54,800	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	27.1	0.326	mg/kg			EPA RSL	200	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,700	10.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	489	0.326	mg/kg			NMED SSL	464	YES
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.8	0.326	mg/kg			NMED SSL	753	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,070	10.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,790	10.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	19.7	0.326	mg/kg			NMED SSL	96.6	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	35.7	0.163	mg/kg			NMED SSL	394	no
0725F5SS014-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	33.5	1.09	mg/kg			NMED SSL	23,500	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,300	5.60	mg/kg			NMED SSL	41,400	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.64	0.448	mg/kg			NMED SSL	7.07	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	335	0.224	mg/kg			NMED SSL	4,390	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.27	0.112	mg/kg			NMED SSL	148	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	37,000	11.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.09	0.224	mg/kg			NMED SSL	23.4	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.42	0.336	mg/kg			NMED SSL	3,130	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,300	3.36	mg/kg			NMED SSL	54,800	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	26.7	0.336	mg/kg			EPA RSL	200	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,400	11.2	mg/kg			NMED SSL	1,550,000	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	492	0.336	mg/kg			NMED SSL	464	YES
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	18.7	0.336	mg/kg			NMED SSL	753	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,670	11.2	mg/kg			NMED SSL	15,600,000	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	2,050	11.2	mg/kg			NMED SSL	7,820,000	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.9	0.336	mg/kg			NMED SSL	96.6	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.5	0.168	mg/kg			NMED SSL	394	no
0725F5SS014-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	38.4	1.12	mg/kg			NMED SSL	23,500	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	14,800	5.48	mg/kg			NMED SSL	41,400	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.47	0.438	mg/kg			NMED SSL	7.07	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	282	0.219	mg/kg			NMED SSL	4,390	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	0.834	0.110	mg/kg	J	J	NMED SSL	148	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	32,000	11.0	mg/kg			NMED SSL	8,850,000	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	4.89	0.219	mg/kg			NMED SSL	23.4	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.02	0.329	mg/kg			NMED SSL	3,130	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	13,200	3.29	mg/kg			NMED SSL	54,800	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	33.9	0.329	mg/kg			EPA RSL	200	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	6,320	11.0	mg/kg			NMED SSL	1,550,000	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	513	0.329	mg/kg			NMED SSL	464	YES

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0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	10.4	0.329	mg/kg			NMED SSL	753	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,000	11.0	mg/kg			NMED SSL	15,600,000	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	263	11.0	mg/kg			NMED SSL	7,820,000	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	12.2	0.329	mg/kg			NMED SSL	96.6	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	26.6	0.164	mg/kg			NMED SSL	394	no
0725F5SS015-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	26.9	1.10	mg/kg			NMED SSL	23,500	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	25,400	6.42	mg/kg			NMED SSL	41,400	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.57	0.514	mg/kg			NMED SSL	7.07	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	417	0.257	mg/kg			NMED SSL	4,390	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.12	0.128	mg/kg	J	J	NMED SSL	148	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	31,700	12.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	6.90	0.257	mg/kg			NMED SSL	23.4	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.60	0.385	mg/kg			NMED SSL	3,130	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	17,500	3.85	mg/kg			NMED SSL	54,800	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	28.0	0.385	mg/kg			EPA RSL	200	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,420	12.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	429	0.385	mg/kg			NMED SSL	464	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	15.6	0.385	mg/kg			NMED SSL	753	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,550	12.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	646	12.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	17.6	0.385	mg/kg			NMED SSL	96.6	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	33.4	0.193	mg/kg			NMED SSL	394	no
0725F5SS015-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	29.5	1.28	mg/kg			NMED SSL	23,500	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	28,600	5.58	mg/kg			NMED SSL	41,400	no

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0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	3.05	0.446	mg/kg			NMED SSL	7.07	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	335	0.223	mg/kg			NMED SSL	4,390	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.27	0.112	mg/kg			NMED SSL	148	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,200	11.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.91	0.223	mg/kg			NMED SSL	23.4	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	19.3	0.335	mg/kg			NMED SSL	3,130	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,100	3.35	mg/kg			NMED SSL	54,800	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	70.1	0.335	mg/kg			EPA RSL	200	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,500	11.2	mg/kg			NMED SSL	1,550,000	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	446	0.335	mg/kg			NMED SSL	464	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.8	0.335	mg/kg			NMED SSL	753	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,050	11.2	mg/kg			NMED SSL	15,600,000	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,380	11.2	mg/kg			NMED SSL	7,820,000	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	19.8	0.335	mg/kg			NMED SSL	96.6	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	36.4	0.167	mg/kg			NMED SSL	394	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	83.8	1.12	mg/kg			NMED SSL	23,500	no
0725F5SS016-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0292	0.0222	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	30,100	6.24	mg/kg			NMED SSL	41,400	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.86	0.499	mg/kg			NMED SSL	7.07	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	316	0.249	mg/kg			NMED SSL	4,390	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.22	0.125	mg/kg	J	J	NMED SSL	148	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,000	12.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.81	0.249	mg/kg			NMED SSL	23.4	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	15.6	0.374	mg/kg			NMED SSL	3,130	no

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0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,400	3.74	mg/kg			NMED SSL	54,800	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	52.7	0.374	mg/kg			EPA RSL	200	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,400	12.5	mg/kg			NMED SSL	1,550,000	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	453	0.374	mg/kg			NMED SSL	464	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	18.0	0.374	mg/kg			NMED SSL	753	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,300	12.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	2,090	12.5	mg/kg			NMED SSL	7,820,000	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	20.9	0.374	mg/kg			NMED SSL	96.6	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	36.5	0.187	mg/kg			NMED SSL	394	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	85.5	1.25	mg/kg		J	NMED SSL	23,500	no
0725F5SS016-0.5-1.0DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0230	0.0249	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7429-90-5	Aluminum	34,400	5.44	mg/kg			NMED SSL	41,400	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-38-2	Arsenic	3.33	0.436	mg/kg			NMED SSL	7.07	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-39-3	Barium	349	0.218	mg/kg			NMED SSL	4,390	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-41-7	Beryllium	1.45	0.109	mg/kg			NMED SSL	148	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-43-9	Cadmium	0.404	0.218	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-70-2	Calcium	34,800	10.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-48-4	Cobalt	8.71	0.218	mg/kg			NMED SSL	23.4	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-50-8	Copper	20.4	0.327	mg/kg			NMED SSL	3,130	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7439-89-6	Iron	24,800	3.27	mg/kg			NMED SSL	54,800	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7439-92-1	Lead	55.3	0.327	mg/kg			EPA RSL	200	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7439-95-4	Magnesium	11,400	10.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7439-96-5	Manganese	465	0.327	mg/kg			NMED SSL	464	YES
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-02-0	Nickel	19.8	0.327	mg/kg			NMED SSL	753	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-09-7	Potassium	6,650	10.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-23-5	Sodium	2,410	10.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-47-3	Total Chromium	24.6	0.327	mg/kg			NMED SSL	96.6	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-62-2	Vanadium	46.4	0.163	mg/kg			NMED SSL	394	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW6010B	7440-66-6	Zinc	119	1.09	mg/kg		J	NMED SSL	23,500	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	SW7471A	7439-97-6	Mercury	0.0240	0.0227	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	26,700	5.44	mg/kg			NMED SSL	41,400	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.69	0.435	mg/kg			NMED SSL	7.07	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	281	0.217	mg/kg			NMED SSL	4,390	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.21	0.109	mg/kg			NMED SSL	148	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	29,000	10.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.47	0.217	mg/kg			NMED SSL	23.4	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	10.8	0.326	mg/kg			NMED SSL	3,130	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,600	3.26	mg/kg			NMED SSL	54,800	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	37.1	0.326	mg/kg			EPA RSL	200	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,560	10.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	434	0.326	mg/kg			NMED SSL	464	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.0	0.326	mg/kg			NMED SSL	753	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,550	10.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,470	10.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.7	0.326	mg/kg			NMED SSL	96.6	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	34.8	0.163	mg/kg			NMED SSL	394	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	49.1	1.09	mg/kg			NMED SSL	23,500	no
0725F5SS017-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0177	0.0215	mg/kg	J	J	NMED SSL	20.7	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	29,100	5.61	mg/kg			NMED SSL	41,400	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.50	0.449	mg/kg			NMED SSL	7.07	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	307	0.224	mg/kg			NMED SSL	4,390	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.27	0.112	mg/kg			NMED SSL	148	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,700	11.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.96	0.224	mg/kg			NMED SSL	23.4	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	9.45	0.336	mg/kg		J	NMED SSL	3,130	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	19,400	3.36	mg/kg			NMED SSL	54,800	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	31.8	0.336	mg/kg			EPA RSL	200	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,200	11.2	mg/kg		J	NMED SSL	1,550,000	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	453	0.336	mg/kg			NMED SSL	464	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	18.0	0.336	mg/kg			NMED SSL	753	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,890	11.2	mg/kg		J	NMED SSL	15,600,000	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	2,290	11.2	mg/kg			NMED SSL	7,820,000	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	19.6	0.336	mg/kg			NMED SSL	96.6	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.2	0.168	mg/kg			NMED SSL	394	no
0725F5SS017-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	36.8	1.12	mg/kg			NMED SSL	23,500	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,600	5.91	mg/kg			NMED SSL	41,400	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.80	0.473	mg/kg			NMED SSL	7.07	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	311	0.236	mg/kg			NMED SSL	4,390	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.36	0.118	mg/kg			NMED SSL	148	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	32,300	11.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.51	0.236	mg/kg			NMED SSL	23.4	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	9.24	0.355	mg/kg			NMED SSL	3,130	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,100	3.55	mg/kg			NMED SSL	54,800	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	27.4	0.355	mg/kg			EPA RSL	200	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,100	11.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	471	0.355	mg/kg			NMED SSL	464	YES
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	19.0	0.355	mg/kg			NMED SSL	753	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,500	11.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	926	11.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.0	0.355	mg/kg			NMED SSL	96.6	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.2	0.177	mg/kg			NMED SSL	394	no
0725F5SS018-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	37.7	1.18	mg/kg			NMED SSL	23,500	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,400	6.08	mg/kg			NMED SSL	41,400	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.88	0.486	mg/kg			NMED SSL	7.07	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	348	0.243	mg/kg			NMED SSL	4,390	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.41	0.122	mg/kg			NMED SSL	148	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,500	12.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.58	0.243	mg/kg			NMED SSL	23.4	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	9.01	0.365	mg/kg			NMED SSL	3,130	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,300	3.65	mg/kg			NMED SSL	54,800	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	27.1	0.365	mg/kg			EPA RSL	200	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,400	12.2	mg/kg			NMED SSL	1,550,000	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	468	0.365	mg/kg			NMED SSL	464	YES
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	19.0	0.365	mg/kg			NMED SSL	753	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,170	12.2	mg/kg			NMED SSL	15,600,000	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,350	12.2	mg/kg			NMED SSL	7,820,000	no

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0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	20.9	0.365	mg/kg			NMED SSL	96.6	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.5	0.182	mg/kg			NMED SSL	394	no
0725F5SS018-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	35.6	1.22	mg/kg			NMED SSL	23,500	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	34,200	5.40	mg/kg			NMED SSL	41,400	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.43	0.432	mg/kg			NMED SSL	7.07	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	338	0.216	mg/kg			NMED SSL	4,390	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.39	0.108	mg/kg			NMED SSL	148	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,900	10.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.82	0.216	mg/kg			NMED SSL	23.4	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	10.1	0.324	mg/kg			NMED SSL	3,130	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,900	3.24	mg/kg			NMED SSL	54,800	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	29.5	0.324	mg/kg			EPA RSL	200	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	12,200	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	489	0.324	mg/kg			NMED SSL	464	YES
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	20.2	0.324	mg/kg			NMED SSL	753	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	6,260	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,980	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	23.3	0.324	mg/kg			NMED SSL	96.6	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	40.4	0.162	mg/kg			NMED SSL	394	no
0725F5SS019-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	46.8	1.08	mg/kg			NMED SSL	23,500	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	33,700	5.33	mg/kg			NMED SSL	41,400	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.78	0.426	mg/kg			NMED SSL	7.07	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	318	0.213	mg/kg			NMED SSL	4,390	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.40	0.107	mg/kg			NMED SSL	148	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,800	10.7	mg/kg			NMED SSL	8,850,000	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.78	0.213	mg/kg			NMED SSL	23.4	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	10.2	0.320	mg/kg			NMED SSL	3,130	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,700	3.20	mg/kg			NMED SSL	54,800	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	29.5	0.320	mg/kg			EPA RSL	200	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	12,200	10.7	mg/kg			NMED SSL	1,550,000	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	482	0.320	mg/kg			NMED SSL	464	YES
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	20.1	0.320	mg/kg			NMED SSL	753	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,960	10.7	mg/kg			NMED SSL	15,600,000	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	2,960	10.7	mg/kg			NMED SSL	7,820,000	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	23.4	0.320	mg/kg			NMED SSL	96.6	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	40.1	0.160	mg/kg			NMED SSL	394	no
0725F5SS019-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	46.1	1.07	mg/kg			NMED SSL	23,500	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	28,100	5.20	mg/kg			NMED SSL	41,400	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.45	0.416	mg/kg			NMED SSL	7.07	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	320	0.208	mg/kg			NMED SSL	4,390	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.20	0.104	mg/kg			NMED SSL	148	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,900	10.4	mg/kg			NMED SSL	8,850,000	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.53	0.208	mg/kg			NMED SSL	23.4	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	9.26	0.312	mg/kg			NMED SSL	3,130	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,900	3.12	mg/kg			NMED SSL	54,800	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	25.1	0.312	mg/kg			EPA RSL	200	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,200	10.4	mg/kg			NMED SSL	1,550,000	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	510	0.312	mg/kg			NMED SSL	464	YES

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	16.8	0.312	mg/kg			NMED SSL	753	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,620	10.4	mg/kg			NMED SSL	15,600,000	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,020	10.4	mg/kg			NMED SSL	7,820,000	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	19.1	0.312	mg/kg			NMED SSL	96.6	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	34.4	0.156	mg/kg			NMED SSL	394	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	32.5	1.04	mg/kg			NMED SSL	23,500	no
0725F5SS020-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0118	0.0211	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	27,500	5.48	mg/kg			NMED SSL	41,400	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.52	0.439	mg/kg			NMED SSL	7.07	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	309	0.219	mg/kg			NMED SSL	4,390	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.19	0.110	mg/kg			NMED SSL	148	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,400	11.0	mg/kg			NMED SSL	8,850,000	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.45	0.219	mg/kg			NMED SSL	23.4	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.71	0.329	mg/kg			NMED SSL	3,130	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,500	3.29	mg/kg			NMED SSL	54,800	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	25.4	0.329	mg/kg			EPA RSL	200	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,000	11.0	mg/kg			NMED SSL	1,550,000	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	487	0.329	mg/kg			NMED SSL	464	YES
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	16.6	0.329	mg/kg			NMED SSL	753	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,290	11.0	mg/kg			NMED SSL	15,600,000	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,330	11.0	mg/kg			NMED SSL	7,820,000	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.7	0.329	mg/kg			NMED SSL	96.6	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	33.5	0.164	mg/kg			NMED SSL	394	no
0725F5SS020-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	31.5	1.10	mg/kg			NMED SSL	23,500	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS020-0.5-1.0DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0134	0.022	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	32,900	5.35	mg/kg			NMED SSL	41,400	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.91	0.428	mg/kg			NMED SSL	7.07	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	318	0.214	mg/kg			NMED SSL	4,390	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.33	0.107	mg/kg			NMED SSL	148	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,000	10.7	mg/kg			NMED SSL	8,850,000	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.41	0.214	mg/kg			NMED SSL	23.4	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	13.2	0.321	mg/kg			NMED SSL	3,130	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,100	3.21	mg/kg			NMED SSL	54,800	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	48.2	0.321	mg/kg			EPA RSL	200	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,900	10.7	mg/kg			NMED SSL	1,550,000	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	480	0.321	mg/kg			NMED SSL	464	YES
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	19.0	0.321	mg/kg			NMED SSL	753	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	6,270	10.7	mg/kg			NMED SSL	15,600,000	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,120	10.7	mg/kg			NMED SSL	7,820,000	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	23.0	0.321	mg/kg			NMED SSL	96.6	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	38.0	0.161	mg/kg			NMED SSL	394	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	60.8	1.07	mg/kg			NMED SSL	23,500	no
0725F5SS021-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0202	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	27,000	5.39	mg/kg			NMED SSL	41,400	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.79	0.431	mg/kg			NMED SSL	7.07	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	318	0.215	mg/kg			NMED SSL	4,390	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.22	0.108	mg/kg			NMED SSL	148	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	35,300	10.8	mg/kg			NMED SSL	8,850,000	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.64	0.215	mg/kg			NMED SSL	23.4	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	13.2	0.323	mg/kg			NMED SSL	3,130	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	19,400	3.23	mg/kg			NMED SSL	54,800	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	51.8	0.323	mg/kg			EPA RSL	200	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,200	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	473	0.323	mg/kg			NMED SSL	464	YES
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.6	0.323	mg/kg			NMED SSL	753	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,700	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,550	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.9	0.323	mg/kg			NMED SSL	96.6	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	34.6	0.162	mg/kg			NMED SSL	394	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	52.2	1.08	mg/kg			NMED SSL	23,500	no
0725F5SS021-0.5-1.0DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0127	0.0218	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,900	5.04	mg/kg			NMED SSL	41,400	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.56	0.403	mg/kg			NMED SSL	7.07	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	344	0.202	mg/kg			NMED SSL	4,390	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.33	0.101	mg/kg			NMED SSL	148	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,800	10.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.29	0.202	mg/kg			NMED SSL	23.4	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.78	0.303	mg/kg			NMED SSL	3,130	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,000	3.03	mg/kg			NMED SSL	54,800	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	22.3	0.303	mg/kg			EPA RSL	200	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	11,700	10.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	481	0.303	mg/kg			NMED SSL	464	YES

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	19.0	0.303	mg/kg			NMED SSL	753	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,750	10.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,460	10.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	22.3	0.303	mg/kg			NMED SSL	96.6	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.4	0.151	mg/kg			NMED SSL	394	no
0725F5SS022-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	37.5	1.01	mg/kg			NMED SSL	23,500	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	29,600	5.39	mg/kg			NMED SSL	41,400	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.79	0.431	mg/kg			NMED SSL	7.07	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	396	0.216	mg/kg			NMED SSL	4,390	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.27	0.108	mg/kg			NMED SSL	148	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	38,700	10.8	mg/kg			NMED SSL	8,850,000	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.85	0.216	mg/kg			NMED SSL	23.4	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.33	0.323	mg/kg			NMED SSL	3,130	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,300	3.23	mg/kg			NMED SSL	54,800	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	24.4	0.323	mg/kg			EPA RSL	200	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,800	10.8	mg/kg			NMED SSL	1,550,000	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	534	0.323	mg/kg			NMED SSL	464	YES
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.7	0.323	mg/kg			NMED SSL	753	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,160	10.8	mg/kg			NMED SSL	15,600,000	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	1,870	10.8	mg/kg			NMED SSL	7,820,000	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.2	0.323	mg/kg			NMED SSL	96.6	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.5	0.162	mg/kg			NMED SSL	394	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	34.6	1.08	mg/kg			NMED SSL	23,500	no
0725F5SS022-0.5-1.0DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0186	0.0221	mg/kg	J	J	NMED SSL	20.7	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	25,500	5.76	mg/kg			NMED SSL	41,400	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	3.96	0.461	mg/kg			NMED SSL	7.07	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	299	0.231	mg/kg			NMED SSL	4,390	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.18	0.115	mg/kg			NMED SSL	148	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	27,300	11.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.06	0.231	mg/kg			NMED SSL	23.4	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	12.3	0.346	mg/kg			NMED SSL	3,130	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	19,100	3.46	mg/kg			NMED SSL	54,800	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	25.3	0.346	mg/kg			EPA RSL	200	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	8,850	11.5	mg/kg			NMED SSL	1,550,000	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	476	0.346	mg/kg			NMED SSL	464	YES
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	15.9	0.346	mg/kg			NMED SSL	753	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,260	11.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	279	11.5	mg/kg			NMED SSL	7,820,000	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.0	0.346	mg/kg			NMED SSL	96.6	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	34.6	0.173	mg/kg			NMED SSL	394	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	47.1	1.15	mg/kg			NMED SSL	23,500	no
0725F5SS023-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0177	0.0241	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7429-90-5	Aluminum	26,700	5.97	mg/kg			NMED SSL	41,400	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-38-2	Arsenic	4.27	0.478	mg/kg			NMED SSL	7.07	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-39-3	Barium	305	0.239	mg/kg			NMED SSL	4,390	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-41-7	Beryllium	1.22	0.119	mg/kg			NMED SSL	148	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-70-2	Calcium	27,400	11.9	mg/kg			NMED SSL	8,850,000	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-48-4	Cobalt	8.24	0.239	mg/kg			NMED SSL	23.4	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-50-8	Copper	12.9	0.358	mg/kg			NMED SSL	3,130	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-89-6	Iron	19,700	3.58	mg/kg			NMED SSL	54,800	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-92-1	Lead	28.7	0.358	mg/kg			EPA RSL	200	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-95-4	Magnesium	9,040	11.9	mg/kg			NMED SSL	1,550,000	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7439-96-5	Manganese	494	0.358	mg/kg			NMED SSL	464	YES
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-02-0	Nickel	16.3	0.358	mg/kg			NMED SSL	753	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-09-7	Potassium	5,480	11.9	mg/kg			NMED SSL	15,600,000	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-23-5	Sodium	272	11.9	mg/kg			NMED SSL	7,820,000	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.9	0.358	mg/kg			NMED SSL	96.6	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-62-2	Vanadium	36.3	0.179	mg/kg			NMED SSL	394	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW6010B	7440-66-6	Zinc	49.3	1.19	mg/kg			NMED SSL	23,500	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	SW7471A	7439-97-6	Mercury	0.0381	0.0241	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	30,700	6.04	mg/kg			NMED SSL	41,400	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.75	0.483	mg/kg			NMED SSL	7.07	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	345	0.241	mg/kg			NMED SSL	4,390	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.26	0.121	mg/kg			NMED SSL	148	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.163	0.241	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	31,700	12.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.09	0.241	mg/kg			NMED SSL	23.4	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	9.44	0.362	mg/kg			NMED SSL	3,130	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	20,600	3.62	mg/kg			NMED SSL	54,800	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	14.8	0.362	mg/kg			EPA RSL	200	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,950	12.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	453	0.362	mg/kg			NMED SSL	464	no

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0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.2	0.362	mg/kg			NMED SSL	753	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	6,290	12.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	465	12.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.362	mg/kg			NMED SSL	96.6	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	37.7	0.181	mg/kg			NMED SSL	394	no
0725F5SS023-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	39.0	1.21	mg/kg			NMED SSL	23,500	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	30,500	5.63	mg/kg			NMED SSL	41,400	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	3.58	0.450	mg/kg			NMED SSL	7.07	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	318	0.225	mg/kg			NMED SSL	4,390	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.36	0.113	mg/kg			NMED SSL	148	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.213	0.225	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	28,800	11.3	mg/kg			NMED SSL	8,850,000	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.72	0.225	mg/kg			NMED SSL	23.4	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	12.1	0.338	mg/kg			NMED SSL	3,130	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,700	3.38	mg/kg			NMED SSL	54,800	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	16.4	0.338	mg/kg			EPA RSL	200	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,670	11.3	mg/kg			NMED SSL	1,550,000	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	450	0.338	mg/kg			NMED SSL	464	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.7	0.338	mg/kg			NMED SSL	753	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	6,330	11.3	mg/kg			NMED SSL	15,600,000	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	360	11.3	mg/kg			NMED SSL	7,820,000	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.338	mg/kg			NMED SSL	96.6	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	38.6	0.169	mg/kg			NMED SSL	394	no
0725F5SS024-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	49.2	1.13	mg/kg			NMED SSL	23,500	no

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SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS024-0.0-0.5DSO	8/25/2014	SW7471A	7439-97-6	Mercury	0.0261	0.0245	mg/kg	J	J	NMED SSL	20.7	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	31,600	6.04	mg/kg			NMED SSL	41,400	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	3.07	0.483	mg/kg			NMED SSL	7.07	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	324	0.241	mg/kg			NMED SSL	4,390	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.31	0.121	mg/kg			NMED SSL	148	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.153	0.241	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	31,400	12.1	mg/kg			NMED SSL	8,850,000	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	8.33	0.241	mg/kg			NMED SSL	23.4	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	10.0	0.362	mg/kg			NMED SSL	3,130	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	21,300	3.62	mg/kg			NMED SSL	54,800	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	15.6	0.362	mg/kg			EPA RSL	200	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	10,200	12.1	mg/kg			NMED SSL	1,550,000	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	443	0.362	mg/kg			NMED SSL	464	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	17.8	0.362	mg/kg			NMED SSL	753	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	6,470	12.1	mg/kg			NMED SSL	15,600,000	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	546	12.1	mg/kg			NMED SSL	7,820,000	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	21.8	0.362	mg/kg			NMED SSL	96.6	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	38.2	0.181	mg/kg			NMED SSL	394	no
0725F5SS024-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	41.8	1.21	mg/kg			NMED SSL	23,500	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	28,000	5.24	mg/kg			NMED SSL	41,400	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.75	0.419	mg/kg			NMED SSL	7.07	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	372	0.210	mg/kg			NMED SSL	4,390	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.20	0.105	mg/kg			NMED SSL	148	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.157	0.210	mg/kg	J	J	NMED SSL	70.5	no

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0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	34,800	10.5	mg/kg			NMED SSL	8,850,000	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.54	0.210	mg/kg			NMED SSL	23.4	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	8.86	0.315	mg/kg			NMED SSL	3,130	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,900	3.15	mg/kg			NMED SSL	54,800	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	14.0	0.315	mg/kg			EPA RSL	200	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	9,220	10.5	mg/kg			NMED SSL	1,550,000	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	484	0.315	mg/kg			NMED SSL	464	YES
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	16.1	0.315	mg/kg			NMED SSL	753	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,970	10.5	mg/kg			NMED SSL	15,600,000	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	387	10.5	mg/kg			NMED SSL	7,820,000	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	19.1	0.315	mg/kg			NMED SSL	96.6	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	35.0	0.157	mg/kg			NMED SSL	394	no
0725F5SS025-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	34.3	1.05	mg/kg			NMED SSL	23,500	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	27,200	5.61	mg/kg			NMED SSL	41,400	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.38	0.449	mg/kg			NMED SSL	7.07	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	377	0.225	mg/kg			NMED SSL	4,390	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.14	0.112	mg/kg			NMED SSL	148	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.118	0.225	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	31,100	11.2	mg/kg			NMED SSL	8,850,000	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	7.04	0.225	mg/kg			NMED SSL	23.4	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	6.95	0.337	mg/kg			NMED SSL	3,130	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	18,100	3.37	mg/kg			NMED SSL	54,800	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	12.3	0.337	mg/kg			EPA RSL	200	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	8,790	11.2	mg/kg			NMED SSL	1,550,000	no

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Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	438	0.337	mg/kg			NMED SSL	464	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	15.2	0.337	mg/kg			NMED SSL	753	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	4,550	11.2	mg/kg			NMED SSL	15,600,000	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	526	11.2	mg/kg			NMED SSL	7,820,000	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	18.3	0.337	mg/kg			NMED SSL	96.6	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	34.6	0.168	mg/kg			NMED SSL	394	no
0725F5SS025-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	28.6	1.12	mg/kg			NMED SSL	23,500	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	24,000	4.95	mg/kg			NMED SSL	41,400	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.40	0.396	mg/kg			NMED SSL	7.07	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-39-3	Barium	417	0.198	mg/kg			NMED SSL	4,390	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	1.04	0.0989	mg/kg			NMED SSL	148	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-43-9	Cadmium	0.153	0.198	mg/kg	J	J	NMED SSL	70.5	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-70-2	Calcium	32,300	9.89	mg/kg			NMED SSL	8,850,000	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	6.44	0.198	mg/kg			NMED SSL	23.4	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-50-8	Copper	7.75	0.297	mg/kg			NMED SSL	3,130	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7439-89-6	Iron	16,600	2.97	mg/kg			NMED SSL	54,800	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7439-92-1	Lead	12.7	0.297	mg/kg			EPA RSL	200	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	8,040	9.89	mg/kg			NMED SSL	1,550,000	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7439-96-5	Manganese	431	0.297	mg/kg			NMED SSL	464	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-02-0	Nickel	13.9	0.297	mg/kg			NMED SSL	753	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-09-7	Potassium	5,100	9.89	mg/kg			NMED SSL	15,600,000	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-23-5	Sodium	264	9.89	mg/kg			NMED SSL	7,820,000	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	16.3	0.297	mg/kg			NMED SSL	96.6	no
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	33.9	0.148	mg/kg			NMED SSL	394	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS026-0.0-0.5DSO	8/25/2014	SW6010B	7440-66-6	Zinc	35.9	0.989	mg/kg			NMED SSL	23,500	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7429-90-5	Aluminum	17,000	5.14	mg/kg			NMED SSL	41,400	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-38-2	Arsenic	2.07	0.411	mg/kg			NMED SSL	7.07	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-39-3	Barium	345	0.206	mg/kg			NMED SSL	4,390	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-41-7	Beryllium	0.786	0.103	mg/kg	J	J	NMED SSL	148	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-70-2	Calcium	25,400	10.3	mg/kg			NMED SSL	8,850,000	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-48-4	Cobalt	4.81	0.206	mg/kg			NMED SSL	23.4	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-50-8	Copper	6.58	0.308	mg/kg			NMED SSL	3,130	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7439-89-6	Iron	13,000	3.08	mg/kg			NMED SSL	54,800	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7439-92-1	Lead	19.5	0.308	mg/kg			EPA RSL	200	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7439-95-4	Magnesium	6,420	10.3	mg/kg		J	NMED SSL	1,550,000	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7439-96-5	Manganese	375	0.308	mg/kg		J	NMED SSL	464	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-02-0	Nickel	10.3	0.308	mg/kg			NMED SSL	753	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-09-7	Potassium	3,170	10.3	mg/kg		J	NMED SSL	15,600,000	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-23-5	Sodium	380	10.3	mg/kg			NMED SSL	7,820,000	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-47-3	Total Chromium	11.8	0.308	mg/kg			NMED SSL	96.6	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-62-2	Vanadium	23.3	0.154	mg/kg			NMED SSL	394	no
0725F5SS026-0.5-1.0DSO	8/25/2014	SW6010B	7440-66-6	Zinc	37.4	1.03	mg/kg		J	NMED SSL	23,500	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	22,300	5.31	mg/kg			NMED SSL	41,400	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.73	0.424	mg/kg			NMED SSL	7.07	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	227	0.212	mg/kg			NMED SSL	4,390	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.02	0.106	mg/kg	J	J	NMED SSL	148	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.211	0.212	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	25,100	10.6	mg/kg			NMED SSL	8,850,000	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	6.35	0.212	mg/kg			NMED SSL	23.4	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	13.6	0.318	mg/kg			NMED SSL	3,130	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	16,400	3.18	mg/kg			NMED SSL	54,800	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	33.1	0.318	mg/kg			EPA RSL	200	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	7,050	10.6	mg/kg			NMED SSL	1,550,000	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	359	0.318	mg/kg			NMED SSL	464	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	13.2	0.318	mg/kg			NMED SSL	753	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,740	10.6	mg/kg		J	NMED SSL	15,600,000	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.628	0.531	mg/kg	J	J	NMED SSL	391	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	443	10.6	mg/kg			NMED SSL	7,820,000	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	15.2	0.318	mg/kg			NMED SSL	96.6	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	33.4	0.159	mg/kg			NMED SSL	394	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	38.5	1.06	mg/kg		J	NMED SSL	23,500	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0326	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	23,200	5.49	mg/kg			NMED SSL	41,400	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.13	0.439	mg/kg			NMED SSL	7.07	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	287	0.220	mg/kg			NMED SSL	4,390	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.17	0.110	mg/kg			NMED SSL	148	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.169	0.220	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	32,600	11.0	mg/kg			NMED SSL	8,850,000	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.03	0.220	mg/kg			NMED SSL	23.4	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	12.1	0.330	mg/kg			NMED SSL	3,130	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	18,000	3.30	mg/kg			NMED SSL	54,800	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	29.0	0.330	mg/kg			EPA RSL	200	no

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0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	8,340	11.0	mg/kg			NMED SSL	1,550,000	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	439	0.330	mg/kg			NMED SSL	464	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	15.2	0.330	mg/kg			NMED SSL	753	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,880	11.0	mg/kg			NMED SSL	15,600,000	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.524	0.549	mg/kg	J	J	NMED SSL	391	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	1,100	11.0	mg/kg			NMED SSL	7,820,000	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	16.6	0.330	mg/kg			NMED SSL	96.6	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	33.7	0.165	mg/kg			NMED SSL	394	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	44.1	1.10	mg/kg			NMED SSL	23,500	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7429-90-5	Aluminum	26,200	5.33	mg/kg			NMED SSL	41,400	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-38-2	Arsenic	2.80	0.427	mg/kg			NMED SSL	7.07	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-39-3	Barium	315	0.213	mg/kg			NMED SSL	4,390	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-41-7	Beryllium	1.20	0.107	mg/kg			NMED SSL	148	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-43-9	Cadmium	0.122	0.213	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-70-2	Calcium	34,700	10.7	mg/kg			NMED SSL	8,850,000	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-48-4	Cobalt	7.44	0.213	mg/kg			NMED SSL	23.4	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-50-8	Copper	10.5	0.320	mg/kg			NMED SSL	3,130	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-89-6	Iron	18,900	3.20	mg/kg			NMED SSL	54,800	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-92-1	Lead	22.7	0.320	mg/kg			EPA RSL	200	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-95-4	Magnesium	9,180	10.7	mg/kg			NMED SSL	1,550,000	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7439-96-5	Manganese	455	0.320	mg/kg			NMED SSL	464	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-02-0	Nickel	16.4	0.320	mg/kg			NMED SSL	753	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-09-7	Potassium	5,410	10.7	mg/kg			NMED SSL	15,600,000	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7782-49-2	Selenium	0.449	0.533	mg/kg	J	J	NMED SSL	391	no

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0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-23-5	Sodium	1,170	10.7	mg/kg			NMED SSL	7,820,000	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-47-3	Total Chromium	18.4	0.320	mg/kg			NMED SSL	96.6	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-62-2	Vanadium	35.0	0.160	mg/kg			NMED SSL	394	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	SW6010B	7440-66-6	Zinc	35.6	1.07	mg/kg			NMED SSL	23,500	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	18,700	5.31	mg/kg			NMED SSL	41,400	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.95	0.424	mg/kg			NMED SSL	7.07	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	236	0.212	mg/kg			NMED SSL	4,390	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.988	0.106	mg/kg	J	J	NMED SSL	148	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.242	0.212	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	19,600	10.6	mg/kg			NMED SSL	8,850,000	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	5.91	0.212	mg/kg			NMED SSL	23.4	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	17.9	0.318	mg/kg			NMED SSL	3,130	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	15,000	3.18	mg/kg			NMED SSL	54,800	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	41.5	0.318	mg/kg			EPA RSL	200	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	5,790	10.6	mg/kg			NMED SSL	1,550,000	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	324	0.318	mg/kg			NMED SSL	464	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	11.8	0.318	mg/kg			NMED SSL	753	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,380	10.6	mg/kg			NMED SSL	15,600,000	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.995	0.531	mg/kg	J	J	NMED SSL	391	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	265	10.6	mg/kg			NMED SSL	7,820,000	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	12.9	0.318	mg/kg			NMED SSL	96.6	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	29.4	0.159	mg/kg			NMED SSL	394	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	66.1	1.06	mg/kg			NMED SSL	23,500	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0261	0.0217	mg/kg	J	J	NMED SSL	20.7	no

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Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	10,700	5.21	mg/kg			NMED SSL	41,400	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.71	0.417	mg/kg			NMED SSL	7.07	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	184	0.208	mg/kg			NMED SSL	4,390	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.671	0.104	mg/kg	J	J	NMED SSL	148	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.148	0.208	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	12,200	10.4	mg/kg			NMED SSL	8,850,000	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	3.92	0.208	mg/kg			NMED SSL	23.4	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	16.7	0.313	mg/kg			NMED SSL	3,130	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	10,100	3.13	mg/kg			NMED SSL	54,800	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	31.4	0.313	mg/kg			EPA RSL	200	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	3,040	10.4	mg/kg			NMED SSL	1,550,000	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	205	0.313	mg/kg			NMED SSL	464	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	6.89	0.313	mg/kg			NMED SSL	753	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	2,220	10.4	mg/kg			NMED SSL	15,600,000	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7782-49-2	Selenium	1.06	0.521	mg/kg			NMED SSL	391	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	168	10.4	mg/kg			NMED SSL	7,820,000	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	7.59	0.313	mg/kg			NMED SSL	96.6	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	21.0	0.156	mg/kg			NMED SSL	394	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	46.9	1.04	mg/kg			NMED SSL	23,500	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0591	0.0221	mg/kg	J	J	NMED SSL	20.7	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	12,800	5.25	mg/kg			NMED SSL	41,400	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.77	0.420	mg/kg			NMED SSL	7.07	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	177	0.210	mg/kg			NMED SSL	4,390	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.747	0.105	mg/kg	J	J	NMED SSL	148	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.394	0.210	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	14,800	10.5	mg/kg			NMED SSL	8,850,000	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	4.50	0.210	mg/kg			NMED SSL	23.4	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	22.8	0.315	mg/kg			NMED SSL	3,130	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	11,700	3.15	mg/kg			NMED SSL	54,800	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	132	0.315	mg/kg			EPA RSL	200	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	3,960	10.5	mg/kg			NMED SSL	1,550,000	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	282	0.315	mg/kg			NMED SSL	464	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	8.35	0.315	mg/kg			NMED SSL	753	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	3,200	10.5	mg/kg			NMED SSL	15,600,000	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.956	0.525	mg/kg	J	J	NMED SSL	391	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	196	10.5	mg/kg			NMED SSL	7,820,000	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	8.96	0.315	mg/kg			NMED SSL	96.6	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	22.8	0.158	mg/kg			NMED SSL	394	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	56.0	1.05	mg/kg			NMED SSL	23,500	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0482	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	22,600	5.42	mg/kg			NMED SSL	41,400	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.02	0.434	mg/kg			NMED SSL	7.07	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	262	0.217	mg/kg			NMED SSL	4,390	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.985	0.108	mg/kg	J	J	NMED SSL	148	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.194	0.217	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	31,800	10.8	mg/kg			NMED SSL	8,850,000	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	6.38	0.217	mg/kg			NMED SSL	23.4	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	13.1	0.325	mg/kg			NMED SSL	3,130	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	16,600	3.25	mg/kg			NMED SSL	54,800	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	44.6	0.325	mg/kg			EPA RSL	200	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	7,500	10.8	mg/kg			NMED SSL	1,550,000	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	435	0.325	mg/kg			NMED SSL	464	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	13.6	0.325	mg/kg			NMED SSL	753	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,940	10.8	mg/kg			NMED SSL	15,600,000	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.381	0.542	mg/kg	J	J	NMED SSL	391	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	469	10.8	mg/kg			NMED SSL	7,820,000	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	16.8	0.325	mg/kg			NMED SSL	96.6	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	31.0	0.163	mg/kg			NMED SSL	394	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	40.1	1.08	mg/kg			NMED SSL	23,500	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0126	0.0223	mg/kg	J	J	NMED SSL	20.7	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	28,500	5.64	mg/kg			NMED SSL	41,400	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.85	0.451	mg/kg			NMED SSL	7.07	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	346	0.226	mg/kg			NMED SSL	4,390	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.22	0.113	mg/kg			NMED SSL	148	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.200	0.226	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	37,100	11.3	mg/kg			NMED SSL	8,850,000	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.67	0.226	mg/kg			NMED SSL	23.4	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	11.4	0.338	mg/kg			NMED SSL	3,130	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	19,900	3.38	mg/kg			NMED SSL	54,800	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	25.3	0.338	mg/kg			EPA RSL	200	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,930	11.3	mg/kg			NMED SSL	1,550,000	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	548	0.338	mg/kg			NMED SSL	464	YES

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0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.9	0.338	mg/kg			NMED SSL	753	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	8,190	11.3	mg/kg			NMED SSL	15,600,000	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.403	0.564	mg/kg	J	J	NMED SSL	391	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	326	11.3	mg/kg			NMED SSL	7,820,000	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	19.6	0.338	mg/kg			NMED SSL	96.6	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	36.3	0.169	mg/kg			NMED SSL	394	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	41.5	1.13	mg/kg			NMED SSL	23,500	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	25,500	5.77	mg/kg			NMED SSL	41,400	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.83	0.462	mg/kg			NMED SSL	7.07	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	301	0.231	mg/kg			NMED SSL	4,390	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.15	0.115	mg/kg	J	J	NMED SSL	148	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.122	0.231	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	40,700	11.5	mg/kg			NMED SSL	8,850,000	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.29	0.231	mg/kg			NMED SSL	23.4	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	9.15	0.346	mg/kg			NMED SSL	3,130	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	18,600	3.46	mg/kg			NMED SSL	54,800	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	17.3	0.346	mg/kg			EPA RSL	200	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,380	11.5	mg/kg			NMED SSL	1,550,000	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	528	0.346	mg/kg			NMED SSL	464	YES
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.1	0.346	mg/kg			NMED SSL	753	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,120	11.5	mg/kg			NMED SSL	15,600,000	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	771	11.5	mg/kg			NMED SSL	7,820,000	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	17.8	0.346	mg/kg			NMED SSL	96.6	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	34.8	0.173	mg/kg			NMED SSL	394	no

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0725PDOSS004-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	33.9	1.15	mg/kg			NMED SSL	23,500	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	14,600	5.09	mg/kg			NMED SSL	41,400	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.23	0.407	mg/kg			NMED SSL	7.07	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	243	0.204	mg/kg			NMED SSL	4,390	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.835	0.102	mg/kg	J	J	NMED SSL	148	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.411	0.204	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	16,400	10.2	mg/kg			NMED SSL	8,850,000	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	5.06	0.204	mg/kg			NMED SSL	23.4	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	25.7	0.306	mg/kg			NMED SSL	3,130	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	13,100	3.06	mg/kg			NMED SSL	54,800	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	124	0.306	mg/kg			EPA RSL	200	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	4,830	10.2	mg/kg			NMED SSL	1,550,000	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	346	0.306	mg/kg			NMED SSL	464	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	9.83	0.306	mg/kg			NMED SSL	753	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,190	10.2	mg/kg			NMED SSL	15,600,000	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.904	0.509	mg/kg	J	J	NMED SSL	391	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	106	10.2	mg/kg			NMED SSL	7,820,000	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	10.8	0.306	mg/kg			NMED SSL	96.6	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	24.3	0.153	mg/kg			NMED SSL	394	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	58.3	1.02	mg/kg			NMED SSL	23,500	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0509	0.0216	mg/kg	J	J	NMED SSL	20.7	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	27,800	5.77	mg/kg			NMED SSL	41,400	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	2.57	0.462	mg/kg			NMED SSL	7.07	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	339	0.231	mg/kg			NMED SSL	4,390	no

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0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.21	0.115	mg/kg			NMED SSL	148	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	38,400	11.5	mg/kg			NMED SSL	8,850,000	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	7.65	0.231	mg/kg			NMED SSL	23.4	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	9.09	0.346	mg/kg			NMED SSL	3,130	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	19,200	3.46	mg/kg			NMED SSL	54,800	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	16.3	0.346	mg/kg			EPA RSL	200	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	9,630	11.5	mg/kg			NMED SSL	1,550,000	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	533	0.346	mg/kg			NMED SSL	464	YES
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	16.6	0.346	mg/kg			NMED SSL	753	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,160	11.5	mg/kg			NMED SSL	15,600,000	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	340	11.5	mg/kg			NMED SSL	7,820,000	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	19.1	0.346	mg/kg			NMED SSL	96.6	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	36.8	0.173	mg/kg			NMED SSL	394	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	34.4	1.15	mg/kg			NMED SSL	23,500	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	16,700	5.26	mg/kg			NMED SSL	41,400	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	5.01	0.421	mg/kg			NMED SSL	7.07	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-39-3	Barium	223	0.211	mg/kg			NMED SSL	4,390	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	0.909	0.105	mg/kg	J	J	NMED SSL	148	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.279	0.211	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-70-2	Calcium	17,800	10.5	mg/kg			NMED SSL	8,850,000	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	5.61	0.211	mg/kg			NMED SSL	23.4	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-50-8	Copper	18.4	0.316	mg/kg			NMED SSL	3,130	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-89-6	Iron	14,800	3.16	mg/kg			NMED SSL	54,800	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-92-1	Lead	76.3	0.316	mg/kg			EPA RSL	200	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	5,490	10.5	mg/kg			NMED SSL	1,550,000	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7439-96-5	Manganese	352	0.316	mg/kg			NMED SSL	464	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-02-0	Nickel	11.2	0.316	mg/kg			NMED SSL	753	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-09-7	Potassium	4,100	10.5	mg/kg			NMED SSL	15,600,000	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7782-49-2	Selenium	0.870	0.526	mg/kg	J	J	NMED SSL	391	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-23-5	Sodium	172	10.5	mg/kg			NMED SSL	7,820,000	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	11.9	0.316	mg/kg			NMED SSL	96.6	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	26.1	0.158	mg/kg			NMED SSL	394	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW6010B	7440-66-6	Zinc	48.3	1.05	mg/kg			NMED SSL	23,500	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	SW7471A	7439-97-6	Mercury	0.0444	0.0218	mg/kg	J		NMED SSL	20.7	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7429-90-5	Aluminum	32,100	5.81	mg/kg			NMED SSL	41,400	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-38-2	Arsenic	3.19	0.465	mg/kg			NMED SSL	7.07	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-39-3	Barium	294	0.232	mg/kg			NMED SSL	4,390	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-41-7	Beryllium	1.35	0.116	mg/kg			NMED SSL	148	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-43-9	Cadmium	0.175	0.232	mg/kg	J	J	NMED SSL	70.5	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-70-2	Calcium	35,800	11.6	mg/kg			NMED SSL	8,850,000	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-48-4	Cobalt	8.69	0.232	mg/kg			NMED SSL	23.4	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-50-8	Copper	10.7	0.348	mg/kg			NMED SSL	3,130	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-89-6	Iron	21,900	3.48	mg/kg			NMED SSL	54,800	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-92-1	Lead	19.8	0.348	mg/kg			EPA RSL	200	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-95-4	Magnesium	10,700	11.6	mg/kg			NMED SSL	1,550,000	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7439-96-5	Manganese	505	0.348	mg/kg			NMED SSL	464	YES
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-02-0	Nickel	19.1	0.348	mg/kg			NMED SSL	753	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-09-7	Potassium	6,960	11.6	mg/kg			NMED SSL	15,600,000	no

Table B.4-5
SWMU 25 - Trash Burning Ground Property Disposal Office - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-23-5	Sodium	336	11.6	mg/kg			NMED SSL	7,820,000	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-47-3	Total Chromium	21.7	0.348	mg/kg			NMED SSL	96.6	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-62-2	Vanadium	40.2	0.174	mg/kg			NMED SSL	394	no
0725PDOSS006-0.5-1.0DSO	8/26/2014	SW6010B	7440-66-6	Zinc	41.9	1.16	mg/kg			NMED SSL	23,500	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-6
SWMU 25 - Trash Burning Ground Property Disposal Office - Chlorinated Pesticides
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS015-0.0-0.5DSO	8/25/2014	8081A	58-89-9	Gamma-BHC	0.0017	0.00044	mg/kg	J	J	NMED SSL	5.63	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8081A	58-89-9	Gamma-BHC	0.0012	0.00052	mg/kg	J	J	NMED SSL	5.63	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8081A	1024-57-3	Heptachlor Epoxide	0.0014	0.00045	mg/kg	J	J	EPA RSL	0.7	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS001-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000077	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS001-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000721	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F1SS001-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000346		mg/kg			NMED SSL	0.000049	no
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000080	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000103	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	8290A	3268-87-9	OCDD	0.00000837	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS001-0.5-1.0DSO-DUP	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000335		mg/kg			NMED SSL	0.000049	no
0725F1SS002-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000057	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS002-0.0-0.5DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000121	0.000000096	mg/kg	J	J	--	NS	No Standard
0725F1SS002-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000443	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS002-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000355		mg/kg			NMED SSL	0.000049	no
0725F1SS002-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000036	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS002-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000253	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS002-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000329		mg/kg			NMED SSL	0.000049	no
0725F1SS003-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000185	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS003-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000264	0.000000086	mg/kg	J	J	--	NS	No Standard
0725F1SS003-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.0000188	0.00000011	mg/kg			--	NS	No Standard
0725F1SS003-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000104	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F1SS003-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000341		mg/kg			NMED SSL	0.000049	no
0725F1SS004-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000069	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS004-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000489	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS004-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000320		mg/kg			NMED SSL	0.000049	no
0725F1SS004-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000055	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS004-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000115	0.000000094	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS004-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000396	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS004-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000327		mg/kg			NMED SSL	0.000049	no
0725F1SS005-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000031	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS005-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000188	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS005-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000313		mg/kg			NMED SSL	0.000049	no
0725F1SS006-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000057	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS006-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000393	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS006-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000321		mg/kg			NMED SSL	0.000049	no
0725F1SS006-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000431	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F1SS006-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000295	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS006-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000014	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS006-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000446		mg/kg			NMED SSL	0.000049	no
0725F1SS007-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000026	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS007-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000097	0.000000087	mg/kg	J	J	--	NS	No Standard
0725F1SS007-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000147	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F1SS007-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000401		mg/kg			NMED SSL	0.000049	no
0725F1SS008-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000076	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.0-0.5DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000130	0.000000097	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000684	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.0-0.5DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000022	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000358		mg/kg			NMED SSL	0.000049	no
0725F1SS008-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000066	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000167	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000519	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS008-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS008-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000331		mg/kg			NMED SSL	0.000049	no
0725F1SS009-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000080	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS009-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000742	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS009-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000023	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS009-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000350		mg/kg			NMED SSL	0.000049	no
0725F1SS010-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000077	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.0-0.5DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000175	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000776	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.0-0.5DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000025	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000353		mg/kg			NMED SSL	0.000049	no
0725F1SS010-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000102	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000239	0.000000096	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.0000116	0.00000010	mg/kg			--	NS	No Standard
0725F1SS010-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000039	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS010-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000372		mg/kg			NMED SSL	0.000049	no
0725F1SS011-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000078	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS011-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000184	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F1SS011-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000750	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS011-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS011-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000346		mg/kg			NMED SSL	0.000049	no
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	8290A	3268-87-9	OCDD	0.00000278	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS011-0.5-1.0DSO-DUP	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000323		mg/kg			NMED SSL	0.000049	no
0725F1SS012-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000037	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS012-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000282	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS012-0.0-0.5DSO	8/27/2014	8290A	39001-02-0	OCDF	0.000000177	0.000000097	mg/kg	J	J	--	NS	No Standard
0725F1SS012-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000336		mg/kg			NMED SSL	0.000049	no
0725F1SS012-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000046	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS012-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000340	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS012-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS012-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000312		mg/kg			NMED SSL	0.000049	no
0725F1SS013-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000047	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS013-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000332	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS013-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000339		mg/kg			NMED SSL	0.000049	no
0725F1SS014-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.000000558	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F1SS014-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000414	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS014-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000314		mg/kg			NMED SSL	0.000049	no
0725F1SS014-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000018	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS014-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000143	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS014-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000329		mg/kg			NMED SSL	0.000049	no
0725F1SS015-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000073	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS015-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000643	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS015-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS015-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000339		mg/kg			NMED SSL	0.000049	no
0725F1SS016-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000087	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000849	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.0-0.5DSO	8/27/2014	8290A	39001-02-0	OCDF	0.000000420	0.000000097	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000316		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS016-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000061	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000558	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000032	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS016-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000347		mg/kg			NMED SSL	0.000049	no
0725F1SS017-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000072	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS017-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000126	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F1SS017-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000746	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS017-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000333		mg/kg			NMED SSL	0.000049	no
0725F1SS018-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.000000941	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.0-0.5DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000168	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000846	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.0-0.5DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000043	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000309		mg/kg			NMED SSL	0.000049	no
0725F1SS018-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000048	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000570	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS018-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000330		mg/kg			NMED SSL	0.000049	no
0725F1SS019-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000066	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS019-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000574	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS019-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000018	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS019-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000333		mg/kg			NMED SSL	0.000049	no
0725F1SS020-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000065	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS020-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000537	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS020-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000336		mg/kg			NMED SSL	0.000049	no
0725F1SS020-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000049	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS020-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000417	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS020-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000014	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS020-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000324		mg/kg			NMED SSL	0.000049	no
0725F1SS021-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000029	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS021-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000223	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS021-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000325		mg/kg			NMED SSL	0.000049	no
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000028	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	8290A	3268-87-9	OCDD	0.00000196	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS021-0.5-1.0DSO-DUP	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000330		mg/kg			NMED SSL	0.000049	no
0725F1SS022-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000033	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS022-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000332	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS022-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000334		mg/kg			NMED SSL	0.000049	no
0725F1SS022-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000018	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS022-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000154	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F1SS022-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000338		mg/kg			NMED SSL	0.000049	no
0725F1SS023-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000022	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS023-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000149	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS023-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000343		mg/kg			NMED SSL	0.000049	no
0725F1SS024-0.0-0.5DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000076	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.0-0.5DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000129	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.0-0.5DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000601	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.0-0.5DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000392		mg/kg			NMED SSL	0.000049	no
0725F1SS024-0.5-1.0DSO	8/27/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000085	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.5-1.0DSO	8/27/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000175	0.000000091	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS024-0.5-1.0DSO	8/27/2014	8290A	3268-87-9	OCDD	0.00000613	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.5-1.0DSO	8/27/2014	8290A	39001-02-0	OCDF	0.00000021	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS024-0.5-1.0DSO	8/27/2014	8290A	TEQ	Total Toxic Equivalency	0.000000338		mg/kg			NMED SSL	0.000049	no
0725F1SS025-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000065	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS025-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000114	0.000000090	mg/kg	J	J	--	NS	No Standard
0725F1SS025-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000463	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS025-0.5-1.0DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000014	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS025-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000907		mg/kg			NMED SSL	0.000049	no
0725F1SS026-0.0-0.5DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000132	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.0000117	0.00000010	mg/kg			--	NS	No Standard
0725F1SS026-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000032	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000168		mg/kg			NMED SSL	0.000049	no
0725F1SS026-0.5-1.0-DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000080	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.5-1.0-DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000171	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.5-1.0-DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000590	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.5-1.0-DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000026	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS026-0.5-1.0-DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000116		mg/kg			NMED SSL	0.000049	no
0725F1SS027-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000095	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS027-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000191	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F1SS027-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000726	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS027-0.5-1.0DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS027-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000137		mg/kg			NMED SSL	0.000049	no
0725F1SS028-0.0-0.5DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000065	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS028-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000553	0.00000010	mg/kg	J	J	--	NS	No Standard

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SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS028-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000012	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS028-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000820		mg/kg			NMED SSL	0.000049	no
0725F1SS028-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000047	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS028-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000450	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS028-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000605		mg/kg			NMED SSL	0.000049	no
0725F1SS029-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000052	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS029-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000383	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS029-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000635		mg/kg			NMED SSL	0.000049	no
0725F1SS030-0.0-0.5DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000109	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000805	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000029	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000134		mg/kg			NMED SSL	0.000049	no
0725F1SS030-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000076	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000125	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000610	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS030-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000107		mg/kg			NMED SSL	0.000049	no
0725F1SS031-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000035	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS031-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000369	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS031-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000461		mg/kg			NMED SSL	0.000049	no
0725F1SS032-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.0000100	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F1SS032-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000060	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F1SS032-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000318		mg/kg			NMED SSL	0.000049	no
0725F1SS032-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000113	0.000000096	mg/kg	J	J	--	NS	No Standard
0725F1SS032-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000534	0.00000021	mg/kg	J	J	--	NS	No Standard

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS032-0.5-1.0DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000037	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F1SS032-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000284		mg/kg			NMED SSL	0.000049	no
0725F1SS033-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000061	0.00000023	mg/kg	J	J	--	NS	No Standard
0725F1SS033-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000556	0.00000023	mg/kg	J	J	--	NS	No Standard
0725F1SS033-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000777		mg/kg			NMED SSL	0.000049	no
0725F1SS034-0.0-0.5DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000072	0.00000025	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.0-0.5DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000579	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000107		mg/kg			NMED SSL	0.000049	no
0725F1SS034-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000067	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000156	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000480	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.5-1.0DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000021	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F1SS034-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000976		mg/kg			NMED SSL	0.000049	no
0725F1SS035-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000068	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS035-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000113	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F1SS035-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000468	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS035-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000933		mg/kg			NMED SSL	0.000049	no
0725F1SS036-0.0-0.5DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000054	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.0-0.5DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.0-0.5DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000374	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.0-0.5DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.0-0.5DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000778		mg/kg			NMED SSL	0.000049	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F1SS036-0.5-1.0DSO	8/28/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000073	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.5-1.0DSO	8/28/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000195	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.5-1.0DSO	8/28/2014	8290A	3268-87-9	OCDD	0.00000515	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.5-1.0DSO	8/28/2014	8290A	39001-02-0	OCDF	0.00000029	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F1SS036-0.5-1.0DSO	8/28/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000109		mg/kg			NMED SSL	0.000049	no
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000173	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000257	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000017	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000015	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000186	0.00000011	mg/kg			--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000092	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000424		mg/kg			NMED SSL	0.000049	no
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000228	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000216	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000012	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000430	0.00000012	mg/kg			--	NS	No Standard
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000081	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS001-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000501		mg/kg			NMED SSL	0.000049	no
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000545	0.00000012	mg/kg			--	NS	No Standard
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000160	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000025	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000041	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000655	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000157	0.00000011	mg/kg	J	J	--	NS	No Standard

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SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS002-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.000000157		mg/kg			NMED SSL	0.000049	no
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000278	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000066	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000015	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	3268-87-9	OCDD	0.0000325	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	39001-02-0	OCDF	0.00000143	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.0-0.5DSO-DUP	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000766		mg/kg			NMED SSL	0.000049	no
0725F2SS002-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000254	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000510	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000293	0.00000010	mg/kg			--	NS	No Standard
0725F2SS002-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000129	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS002-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000397		mg/kg			NMED SSL	0.000049	no
0725F2SS003-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000166	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000321	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000210	0.00000011	mg/kg			--	NS	No Standard
0725F2SS003-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000104	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000264		mg/kg			NMED SSL	0.000049	no
0725F2SS003-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000152	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000264	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000182	0.00000010	mg/kg			--	NS	No Standard
0725F2SS003-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000042	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS003-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000234		mg/kg			NMED SSL	0.000049	no
0725F2SS004-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000118	0.00000010	mg/kg	J	J	--	NS	No Standard

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SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS004-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000198	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F2SS004-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000135	0.00000012	mg/kg			--	NS	No Standard
0725F2SS004-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000178		mg/kg			NMED SSL	0.000049	no
0725F2SS004-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000097	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS004-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000113	0.00000012	mg/kg			--	NS	No Standard
0725F2SS004-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS004-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000132		mg/kg			NMED SSL	0.000049	no
0725F2SS005-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000088	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000175	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000101	0.00000011	mg/kg			--	NS	No Standard
0725F2SS005-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000028	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000137		mg/kg			NMED SSL	0.000049	no
0725F2SS005-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000099	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000182	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000130	0.00000010	mg/kg			--	NS	No Standard
0725F2SS005-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000031	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS005-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000157		mg/kg			NMED SSL	0.000049	no
0725F2SS006-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000084	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS006-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000151	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F2SS006-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000102	0.00000011	mg/kg			--	NS	No Standard
0725F2SS006-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000130		mg/kg			NMED SSL	0.000049	no
0725F2SS006-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000107	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS006-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000209	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F2SS006-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000127	0.00000011	mg/kg			--	NS	No Standard

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0725F2SS006-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000031	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS006-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000167		mg/kg			NMED SSL	0.000049	no
0725F2SS007-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000094	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000108	0.00000012	mg/kg			--	NS	No Standard
0725F2SS007-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000126		mg/kg			NMED SSL	0.000049	no
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000082	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000021	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8290A	3268-87-9	OCDD	0.00000986	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8290A	39001-02-0	OCDF	0.00000025	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.0-0.5DSO-DUP	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000133		mg/kg			NMED SSL	0.000049	no
0725F2SS007-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000056	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.00000633	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS007-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000750		mg/kg			NMED SSL	0.000049	no
0725F2SS008-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000170	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000023	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000396	0.00000011	mg/kg			--	NS	No Standard
0725F2SS008-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000042	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000313		mg/kg			NMED SSL	0.000049	no
0725F2SS008-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000125	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000233	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000239	0.00000011	mg/kg			--	NS	No Standard
0725F2SS008-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000037	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS008-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000221		mg/kg			NMED SSL	0.000049	no
0725F2SS009-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000097	0.00000010	mg/kg	J	J	--	NS	No Standard

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0725F2SS009-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000127	0.00000011	mg/kg			--	NS	No Standard
0725F2SS009-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000016	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS009-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000136		mg/kg			NMED SSL	0.000049	no
0725F2SS009-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000091	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS009-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000127	0.00000011	mg/kg			--	NS	No Standard
0725F2SS009-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000129		mg/kg			NMED SSL	0.000049	no
0725F2SS010-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000160	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS010-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000280	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F2SS010-0.0-0.5DSO	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000016	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS010-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000221	0.00000011	mg/kg			--	NS	No Standard
0725F2SS010-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000414		mg/kg			NMED SSL	0.000049	no
0725F2SS010-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000136	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS010-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000227	0.00000010	mg/kg			--	NS	No Standard
0725F2SS010-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000204		mg/kg			NMED SSL	0.000049	no
0725F2SS011-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000193	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS011-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000245	0.00000011	mg/kg			--	NS	No Standard
0725F2SS011-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000267		mg/kg			NMED SSL	0.000049	no
0725F2SS011-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000236	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000463	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000276	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000061	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000367		mg/kg			NMED SSL	0.000049	no
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000573	0.00000010	mg/kg			--	NS	No Standard
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000202	0.000000092	mg/kg	J	J	--	NS	No Standard

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0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000167	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	3268-87-9	OCDD	0.0000800	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	39001-02-0	OCDF	0.0000136	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS011-0.5-1.0DSO-DUP	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.000000122		mg/kg			NMED SSL	0.000049	no
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000164	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000230	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000013	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000195	0.00000011	mg/kg			--	NS	No Standard
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000043	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000377		mg/kg			NMED SSL	0.000049	no
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000115	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000165	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000012	0.00000011	mg/kg	JK		--	NS	No Standard
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000141	0.00000011	mg/kg			--	NS	No Standard
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.000000226	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F2SS012-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000294		mg/kg			NMED SSL	0.000049	no
0725F2SS013-0.0-0.5DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000106	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS013-0.0-0.5DSO	8/15/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000178	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F2SS013-0.0-0.5DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000165	0.00000010	mg/kg			--	NS	No Standard
0725F2SS013-0.0-0.5DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000029	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS013-0.0-0.5DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000174		mg/kg			NMED SSL	0.000049	no
0725F2SS013-0.5-1.0DSO	8/15/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000113	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS013-0.5-1.0DSO	8/15/2014	8290A	3268-87-9	OCDD	0.0000180	0.00000010	mg/kg			--	NS	No Standard
0725F2SS013-0.5-1.0DSO	8/15/2014	8290A	39001-02-0	OCDF	0.00000025	0.00000010	mg/kg	J	J	--	NS	No Standard

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0725F2SS013-0.5-1.0DSO	8/15/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000168		mg/kg			NMED SSL	0.000049	no
0725F2SS014-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000095	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000077	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000128		mg/kg			NMED SSL	0.000049	no
0725F2SS014-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000082	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000128	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.5-1.0DSO	8/19/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000012	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000043	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS014-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000136		mg/kg			NMED SSL	0.000049	no
0725F2SS015-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000184	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS015-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000271	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS015-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000055	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS015-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000267		mg/kg			NMED SSL	0.000049	no
0725F2SS015-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000091	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS015-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000155	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F2SS015-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000122	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS015-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000041	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS015-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000144		mg/kg			NMED SSL	0.000049	no
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000267	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000357	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000017	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000015	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000017	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000558	0.00000012	mg/kg		J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000092	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000809		mg/kg			NMED SSL	0.000049	no
0725F2SS016-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000162	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000019	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000246	0.00000012	mg/kg		J	--	NS	No Standard
0725F2SS016-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000047	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS016-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000256		mg/kg			NMED SSL	0.000049	no
0725F2SS017-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000204	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000290	0.000000087	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000325	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000070	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000333		mg/kg			NMED SSL	0.000049	no
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000180	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000017	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8290A	3268-87-9	OCDD	0.0000330	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8290A	39001-02-0	OCDF	0.00000057	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.0-0.5DSO-DUP	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000298		mg/kg			NMED SSL	0.000049	no
0725F2SS017-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000127	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000200	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000229	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS017-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000041	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS017-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000217		mg/kg			NMED SSL	0.000049	no
0725F2SS018-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000089	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS018-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000126	0.000000093	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS018-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000112	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS018-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000015	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS018-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000136		mg/kg			NMED SSL	0.000049	no
0725F2SS018-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000074	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS018-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000164	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F2SS018-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000119		mg/kg			NMED SSL	0.000049	no
0725F2SS019-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000101	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000125	0.000000087	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000167	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS019-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000032	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000165		mg/kg			NMED SSL	0.000049	no
0725F2SS019-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000071	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000013	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000021	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS019-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000117		mg/kg			NMED SSL	0.000049	no
0725F2SS020-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000156	0.000000097	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000151	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000041	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000621		mg/kg			NMED SSL	0.000049	no
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000113	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000203	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8290A	3268-87-9	OCDD	0.0000199	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8290A	39001-02-0	OCDF	0.00000072	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.0-0.5DSO-DUP	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000195		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS020-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000894	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.5-1.0DSO	8/19/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000013	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000113	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS020-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000020	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS020-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000137		mg/kg			NMED SSL	0.000049	no
0725F2SS021-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000154	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000211	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000395	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS021-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000039	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000295		mg/kg			NMED SSL	0.000049	no
0725F2SS021-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000080	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000107	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000143	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS021-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000017	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS021-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000134		mg/kg			NMED SSL	0.000049	no
0725F2SS022-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000233	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS022-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000410	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F2SS022-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000624	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS022-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000109	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS022-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000464		mg/kg			NMED SSL	0.000049	no
0725F2SS022-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000079	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS022-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000153	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS022-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS022-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000125		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000201	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000482	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000011	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000457	0.00000010	mg/kg		J	--	NS	No Standard
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000073	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.0-0.5DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000498		mg/kg			NMED SSL	0.000049	no
0725F2SS023-0.5-1.0DSO	8/19/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000154	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.5-1.0DSO	8/19/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000203	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.5-1.0DSO	8/19/2014	8290A	3268-87-9	OCDD	0.0000288	0.00000011	mg/kg		J	--	NS	No Standard
0725F2SS023-0.5-1.0DSO	8/19/2014	8290A	39001-02-0	OCDF	0.00000030	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F2SS023-0.5-1.0DSO	8/19/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000262		mg/kg			NMED SSL	0.000049	no
0725F5SS001-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000237	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS001-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000234	0.00000010	mg/kg			--	NS	No Standard
0725F5SS001-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000081	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS001-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000310		mg/kg			NMED SSL	0.000049	no
0725F5SS001-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000044	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS001-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000150	0.000000090	mg/kg	J	J	--	NS	No Standard
0725F5SS001-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000323	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS001-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000687		mg/kg			NMED SSL	0.000049	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000922	0.00000017	mg/kg			--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000177	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000066	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000041	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000023	0.00000010	mg/kg	J	J	--	NS	No Standard

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SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000052	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000035	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000026	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000081	0.00000010	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000739	0.00000022	mg/kg			--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000189	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000509		mg/kg			NMED SSL	0.000049	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000843	0.00000013	mg/kg			--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000181	0.000000067	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.000000139	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000072	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000042	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000285	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000068	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	57117-41-6	1,2,3,7,8-PeCDF	0.00000025	0.00000019	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000031	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000040	0.00000019	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000109	0.00000012	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000613	0.00000033	mg/kg			--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000161	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS002-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000601		mg/kg			NMED SSL	0.000049	no
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000508	0.00000012	mg/kg			--	NS	No Standard
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000234	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.000000119	0.000000098	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000314	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000522	0.00000017	mg/kg			--	NS	No Standard
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000293	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000134		mg/kg			NMED SSL	0.000049	no
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000545	0.00000011	mg/kg			--	NS	No Standard
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000266	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000025	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8290A	3268-87-9	OCDD	0.0000520	0.00000022	mg/kg			--	NS	No Standard
0725F5SS003-0.0-0.5DSO-DUP	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000122		mg/kg			NMED SSL	0.000049	no
0725F5SS003-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000461	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000195	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS003-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000433	0.00000019	mg/kg			--	NS	No Standard
0725F5SS003-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000786		mg/kg			NMED SSL	0.000049	no
0725F5SS004-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000313	0.00000020	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000078	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000242	0.00000024	mg/kg			--	NS	No Standard
0725F5SS004-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000093	0.00000022	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000466		mg/kg			NMED SSL	0.000049	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000294	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000068	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.000000169	0.000000090	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000095	0.000000086	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000023	0.00000015	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000215	0.00000021	mg/kg			--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000067	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS004-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000923		mg/kg			NMED SSL	0.000049	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000960	0.00000013	mg/kg			--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000215	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000070	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000050	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000025	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000063	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000034	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000028	0.00000020	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000108	0.00000010	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000582	0.00000022	mg/kg			--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000195	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000570		mg/kg			NMED SSL	0.000049	no
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000110	0.00000014	mg/kg			--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000399	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000050	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000524	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000077	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000042	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000053	0.00000019	mg/kg	J	J	--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000882	0.00000024	mg/kg			--	NS	No Standard
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000331	0.00000023	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS005-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000577		mg/kg			NMED SSL	0.000049	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000153	0.00000010	mg/kg			--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000386	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000022	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000046	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000230	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000109	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000831	0.000000089	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000142	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000042	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	57117-41-6	1,2,3,7,8-PeCDF	0.00000069	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.000000888	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000118	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000114	0.00000012	mg/kg			NMED SSL	0.00049	no
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000732	0.00000018	mg/kg			--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000187	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000182		mg/kg			NMED SSL	0.000049	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000359	0.00000018	mg/kg			--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.0000136	0.000000082	mg/kg			--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000053	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000134	0.00000023	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000844	0.00000011	mg/kg			--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000241	0.00000020	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000287	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000230	0.00000021	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000135	0.00000019	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	57117-41-6	1,2,3,7,8-PeCDF	0.00000299	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000360	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000508	0.00000016	mg/kg			--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	1746-01-6	2,3,7,8-TCDD	0.00000060	0.00000014	mg/kg	J	J	NMED SSL	0.000049	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000485	0.00000018	mg/kg			NMED SSL	0.00049	no
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.000165	0.00000021	mg/kg			--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000481	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS006-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000669		mg/kg			NMED SSL	0.000049	no
0725F5SS007-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000053	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000119	0.000000062	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000518	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000804		mg/kg			NMED SSL	0.000049	no
0725F5SS007-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000044	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000104	0.000000073	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000360	0.00000025	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.000000153	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000657		mg/kg			NMED SSL	0.000049	no
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	8290A	3268-87-9	OCDD	0.00000290	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS007-0.5-1.0DSO-DUP	8/26/2014	8290A	TEQ	Total Toxic Equivalency	8.70E-10		mg/kg			NMED SSL	0.000049	no
0725F5SS008-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000081	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS008-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000738	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS008-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000103		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS008-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000508	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS008-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000152		mg/kg			NMED SSL	0.000049	no
0725F5SS009-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000120	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000265	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000991	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000095	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000179		mg/kg			NMED SSL	0.000049	no
0725F5SS009-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000048	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000114	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000375	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000013	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS009-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000711		mg/kg			NMED SSL	0.000049	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000304	0.00000012	mg/kg			--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000398	0.000000077	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.000000211	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000040	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000103	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000028	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000119	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000032	0.00000029	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000171	0.00000017	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.000198	0.00000015	mg/kg			--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000723	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000964		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000300	0.00000012	mg/kg			--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000486	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000029	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000068	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000130	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000114	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000042	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000059	0.00000020	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000234	0.00000015	mg/kg		J	NMED SSL	0.00049	no
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00018	0.00000014	mg/kg			--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000634	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS010-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000117		mg/kg			NMED SSL	0.000049	no
0725F5SS011-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000267	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS011-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000286	0.000000078	mg/kg	J	J	--	NS	No Standard
0725F5SS011-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000295	0.00000019	mg/kg			--	NS	No Standard
0725F5SS011-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000067	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS011-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000386		mg/kg			NMED SSL	0.000049	no
0725F5SS011-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000134	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS011-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000157	0.00000017	mg/kg			--	NS	No Standard
0725F5SS011-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000025	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F5SS011-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000182		mg/kg			NMED SSL	0.000049	no
0725F5SS012-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000060	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS012-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000141	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS012-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000634	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS012-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000931		mg/kg			NMED SSL	0.000049	no
0725F5SS012-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000072	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS012-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000709	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS012-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000933		mg/kg			NMED SSL	0.000049	no
0725F5SS013-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000054	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000654	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000736		mg/kg			NMED SSL	0.000049	no
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000056	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	8290A	3268-87-9	OCDD	0.00000600	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.0-0.5DSO-DUP	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000740		mg/kg			NMED SSL	0.000049	no
0725F5SS013-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000061	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000108	0.000000090	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000757	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS013-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000945		mg/kg			NMED SSL	0.000049	no
0725F5SS014-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000134	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000361	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000994	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000038	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000201		mg/kg			NMED SSL	0.000049	no
0725F5SS014-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000108	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000285	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000826	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS014-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000161		mg/kg			NMED SSL	0.000049	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000255	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000609	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.000000096	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000015	0.00000010	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000184	0.00000010	mg/kg			--	NS	No Standard
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000066	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000619		mg/kg			NMED SSL	0.000049	no
0725F5SS015-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000185	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000441	0.000000088	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000141	0.00000010	mg/kg			--	NS	No Standard
0725F5SS015-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000182	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS015-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000277		mg/kg			NMED SSL	0.000049	no
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000101	0.00000010	mg/kg			--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000287	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000292	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000052	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000793	0.000000098	mg/kg			--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000285	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000376		mg/kg			NMED SSL	0.000049	no
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000129	0.00000010	mg/kg			--	NS	No Standard
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000310	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000208	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.000000696	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000898	0.000000096	mg/kg			--	NS	No Standard
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000271	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS016-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000430		mg/kg			NMED SSL	0.000049	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000105	0.00000011	mg/kg			--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000218	0.000000093	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000022	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000071	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000170	0.000000091	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000064	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000044	0.00000011	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	3268-87-9	OCDD	0.0000583	0.00000010	mg/kg			--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	39001-02-0	OCDF	0.00000199	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS016-0.5-1.0DSO-DUP	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000380		mg/kg			NMED SSL	0.000049	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000315	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000824	0.000000095	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000018	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000025	0.00000011	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000341	0.00000010	mg/kg			--	NS	No Standard
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000112	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000125		mg/kg			NMED SSL	0.000049	no
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000120	0.00000013	mg/kg			--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.0000626	0.000000098	mg/kg		J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000964	0.00000013	mg/kg		J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000277	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000194	0.00000015	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.0000100	0.00000016	mg/kg			--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000154	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000806	0.00000017	mg/kg			--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000079	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000151	0.00000034	mg/kg			--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000219	0.00000026	mg/kg	J	J	--	NS	No Standard
0725F5SS017-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000336		mg/kg			NMED SSL	0.000049	no
0725F5SS018-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000108	0.000000097	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000238	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000215	0.00000010	mg/kg			--	NS	No Standard
0725F5SS018-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000196		mg/kg			NMED SSL	0.000049	no
0725F5SS018-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000054	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000111	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000749	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000022	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS018-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000883		mg/kg			NMED SSL	0.000049	no
0725F5SS019-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000166	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS019-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000493	0.000000092	mg/kg	J	J	--	NS	No Standard
0725F5SS019-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000139	0.00000010	mg/kg			--	NS	No Standard
0725F5SS019-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000076	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS019-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000259		mg/kg			NMED SSL	0.000049	no
0725F5SS019-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000108	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS019-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000990	0.00000029	mg/kg	J	J	--	NS	No Standard
0725F5SS019-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000045	0.00000021	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS019-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000139		mg/kg			NMED SSL	0.000049	no
0725F5SS020-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000079	0.00000021	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000909	0.00000025	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000051	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000108		mg/kg			NMED SSL	0.000049	no
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000057	0.00000022	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000026	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000014	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	1746-01-6	2,3,7,8-TCDD	0.00000019	0.00000014	mg/kg	J	J	NMED SSL	0.000049	no
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000017	0.00000010	mg/kg	J	J	NMED SSL	0.00049	no
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000489	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000043	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS020-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000250		mg/kg			NMED SSL	0.000049	no
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000902	0.00000014	mg/kg			--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.0000149	0.00000012	mg/kg			--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000176	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000035	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0011	0.00000013	mg/kg			--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.0000941	0.00000013	mg/kg			--	NS	No Standard
0725F5SS021-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000155		mg/kg			NMED SSL	0.000049	no
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.000445	0.00000011	mg/kg			--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.0000255	0.000000089	mg/kg			--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000227	0.00000012	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000055	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000075	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000373	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000276	0.000000098	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000181	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000021	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	57117-41-6	1,2,3,7,8-PeCDF	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000034	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000016	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00352	0.00000011	mg/kg			--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.000179	0.00000011	mg/kg			--	NS	No Standard
0725F5SS021-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000685		mg/kg			NMED SSL	0.000049	no
0725F5SS022-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000153	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000200	0.00000014	mg/kg			--	NS	No Standard
0725F5SS022-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000042	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000214		mg/kg			NMED SSL	0.000049	no
0725F5SS022-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000063	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000028	0.00000014	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000770	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000025	0.00000015	mg/kg	J	J	--	NS	No Standard
0725F5SS022-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000315		mg/kg			NMED SSL	0.000049	no
0725F5SS023-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000471	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000140	0.000000094	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.0-0.5DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.000000170	0.000000092	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS023-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.000159	0.00000018	mg/kg			--	NS	No Standard
0725F5SS023-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000149		mg/kg			NMED SSL	0.000049	no
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000497	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000035	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8290A	3268-87-9	OCDD	0.000166	0.00000014	mg/kg			--	NS	No Standard
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8290A	39001-02-0	OCDF	0.00000173	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.0-0.5DSO-DUP	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000204		mg/kg			NMED SSL	0.000049	no
0725F5SS023-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000092	0.00000013	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000248	0.00000012	mg/kg			--	NS	No Standard
0725F5SS023-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS023-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000167		mg/kg			NMED SSL	0.000049	no
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000486	0.00000017	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000087	0.00000016	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000043	0.00000024	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.000118	0.00000028	mg/kg			--	NS	No Standard
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000190	0.00000018	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.000000136		mg/kg			NMED SSL	0.000049	no
0725F5SS024-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000131	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.5-1.0DSO	8/25/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000026	0.00000012	mg/kg	J	J	--	NS	No Standard
0725F5SS024-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000309	0.00000016	mg/kg			--	NS	No Standard
0725F5SS024-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000250		mg/kg			NMED SSL	0.000049	no
0725F5SS025-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000145	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS025-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.0000241	0.00000011	mg/kg			--	NS	No Standard
0725F5SS025-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000057	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725F5SS025-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000219		mg/kg			NMED SSL	0.000049	no
0725F5SS025-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000571	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS025-0.5-1.0DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000013	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS025-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000147		mg/kg			NMED SSL	0.000049	no
0725F5SS026-0.0-0.5DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000050	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS026-0.0-0.5DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000532	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS026-0.0-0.5DSO	8/25/2014	8290A	39001-02-0	OCDF	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0725F5SS026-0.0-0.5DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000666		mg/kg			NMED SSL	0.000049	no
0725F5SS026-0.5-1.0DSO	8/25/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000032	0.00000010	mg/kg	J	J	--	NS	No Standard
0725F5SS026-0.5-1.0DSO	8/25/2014	8290A	3268-87-9	OCDD	0.00000340	0.000000099	mg/kg	J	J	--	NS	No Standard
0725F5SS026-0.5-1.0DSO	8/25/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000422		mg/kg			NMED SSL	0.000049	no
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000334	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000868	0.000000091	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000015	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000014	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000378	0.00000011	mg/kg		J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000072	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000826		mg/kg			NMED SSL	0.000049	no
0725PDOSS001-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000209	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000192	0.00000011	mg/kg		J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000077	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000269		mg/kg			NMED SSL	0.000049	no
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000114	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000230	0.000000089	mg/kg	J	J	--	NS	No Standard

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SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8290A	3268-87-9	OCDD	0.00000861	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8290A	39001-02-0	OCDF	0.00000028	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS001-0.5-1.0DSO-DUP	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000164		mg/kg			NMED SSL	0.000049	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000518	0.00000011	mg/kg		J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000961	0.000000092	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000264	0.000000095	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000113	0.000000099	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000020	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000016	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000015	0.00000010	mg/kg	J	J	NMED SSL	0.00049	no
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000370	0.00000016	mg/kg		J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000108	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000179		mg/kg			NMED SSL	0.000049	no
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000380	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000105	0.000000094	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.000000167	0.000000096	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000249	0.000000098	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.000000139	0.000000092	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000015	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000018	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000016	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000359	0.000000098	mg/kg		J	--	NS	No Standard
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.000000809	0.000000093	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS002-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000196		mg/kg			NMED SSL	0.000049	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000818	0.00000010	mg/kg		J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000134	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000015	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000027	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000030	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000020	0.00000015	mg/kg	J	J	NMED SSL	0.00049	no
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000583	0.00000010	mg/kg		J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000217	0.00000013	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000205		mg/kg			NMED SSL	0.000049	no
0725PDOSS003-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000129	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000335	0.000000093	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000104	0.00000011	mg/kg		J	--	NS	No Standard
0725PDOSS003-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000031	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS003-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000195		mg/kg			NMED SSL	0.000049	no
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000275	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000494	0.000000093	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000014	0.00000013	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000019	0.00000013	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000190	0.00000012	mg/kg		J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000056	0.00000013	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000713		mg/kg			NMED SSL	0.000049	no
0725PDOSS004-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000053	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.5-1.0DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000021	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS004-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000361	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.5-1.0DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000019	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS004-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000854		mg/kg			NMED SSL	0.000049	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000666	0.00000012	mg/kg		J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000148	0.000000094	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000021	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000029	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000015	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000016	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.00000020	0.00000012	mg/kg	J	J	NMED SSL	0.00049	no
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000543	0.00000011	mg/kg		J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.00000160	0.00000011	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.000000199		mg/kg			NMED SSL	0.000049	no
0725PDOSS005-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000034	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.00000266	0.00000012	mg/kg	J	J	--	NS	No Standard
0725PDOSS005-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000420		mg/kg			NMED SSL	0.000049	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000570	0.0000011	mg/kg		J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.0000125	0.0000010	mg/kg		J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.0000028	0.0000014	mg/kg	J	J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.0000023	0.0000014	mg/kg	J	J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	51207-31-9	2,3,7,8-TCDF	0.0000016	0.0000012	mg/kg	J	J	NMED SSL	0.00049	no
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	3268-87-9	OCDD	0.000475	0.0000012	mg/kg		J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	39001-02-0	OCDF	0.0000144	0.0000012	mg/kg		J	--	NS	No Standard
0725PDOSS006-0.0-0.5DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.00000151		mg/kg			NMED SSL	0.000049	no

Table B.4-7
SWMU 25 - Trash Burning Ground Property Disposal Office - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0725PDOSS006-0.5-1.0DSO	8/26/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000177	0.00000010	mg/kg	J	J	--	NS	No Standard
0725PDOSS006-0.5-1.0DSO	8/26/2014	8290A	3268-87-9	OCDD	0.0000170	0.00000014	mg/kg		J	--	NS	No Standard
0725PDOSS006-0.5-1.0DSO	8/26/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000228		mg/kg			NMED SSL	0.000049	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-1
AOC 43 - Railroad Classification Yard - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS001-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.23	0.22	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.26	0.25	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8260B	67-64-1	Acetone	0.21	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.29	0.3	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.24	0.24	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.27	0.24	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8260B	75-09-2	Methylene Chloride	0.051	0.096	mg/kg	J	J	NMED SSL	409	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.27	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.17	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.33	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	8260B	67-64-1	Acetone	0.28	0.21	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.24	0.21	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.33	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.32	0.27	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.25	0.28	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.27	0.27	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.21	0.25	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8260B	91-20-3	Naphthalene	0.15	0.1	mg/kg	J	J	NMED SSL	22.6	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.27	0.28	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.33	0.24	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.51	0.28	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.57	0.26	mg/kg			NMED SSL	66,300	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.26	0.34	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	8260B	67-64-1	Acetone	0.34	0.3	mg/kg	J	J	NMED SSL	66,300	no

Table B.5-1
AOC 43 - Railroad Classification Yard - Volatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS021-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	1.1	0.26	mg/kg			NMED SSL	66,300	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.3	0.23	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8260B	67-64-1	Acetone	0.23	0.24	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.49	0.26	mg/kg	J	J	NMED SSL	66,300	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8260B	67-64-1	Acetone	0.25	0.27	mg/kg	J	J	NMED SSL	66,300	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-2
AOC 43 - Railroad Classification Yard - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	208-96-8	Acenaphthylene	0.0024	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	120-12-7	Anthracene	0.0047	0.0027	mg/kg	J	J	NMED SSL	17,400	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0046	0.0027	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0018	0.0027	mg/kg	J	J	NMED SSL	1.12	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0056	0.0027	mg/kg			NMED SSL	1.53	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0024	0.0027	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	218-01-9	Chrysene	0.011	0.0027	mg/kg			NMED SSL	153	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	206-44-0	Fluoranthene	0.0057	0.0027	mg/kg			NMED SSL	2,320	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	8270C SIM	129-00-0	Pyrene	0.0077	0.0027	mg/kg			NMED SSL	1,740	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	208-96-8	Acenaphthylene	0.0023	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	120-12-7	Anthracene	0.0020	0.0029	mg/kg	J	J	NMED SSL	17,400	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0030	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0020	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0023	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	206-44-0	Fluoranthene	0.0024	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	91-20-3	Naphthalene	0.0019	0.0029	mg/kg	J	J	NMED SSL	22.6	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	85-01-8	Phenanthrene	0.0020	0.0029	mg/kg	J	J	NMED SSL	1,850	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8270C SIM	129-00-0	Pyrene	0.0023	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0035	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0039	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0022	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	218-01-9	Chrysene	0.0039	0.0029	mg/kg	J	J	NMED SSL	153	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	206-44-0	Fluoranthene	0.018	0.0029	mg/kg			NMED SSL	2,320	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	85-01-8	Phenanthrene	0.011	0.0029	mg/kg			NMED SSL	1,850	no

Table B.5-2
AOC 43 - Railroad Classification Yard - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS005-0.0-0.5DSO	8/21/2014	8270C SIM	129-00-0	Pyrene	0.0097	0.0029	mg/kg			NMED SSL	1,740	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C	87-86-5	Pentachlorophenol	0.51	0.19	mg/kg	J	J	NMED SSL	9.85	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	208-96-8	Acenaphthylene	0.0022	0.0028	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	120-12-7	Anthracene	0.0060	0.0028	mg/kg			NMED SSL	17,400	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0030	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0022	0.0028	mg/kg	J	J	NMED SSL	1.12	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0055	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0089	0.0028	mg/kg			NMED SSL	1,740	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.0067	0.0028	mg/kg			NMED SSL	2,320	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0041	0.0028	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	85-01-8	Phenanthrene	0.0050	0.0028	mg/kg	J	J	NMED SSL	1,850	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.012	0.0028	mg/kg			NMED SSL	1,740	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0047	0.0031	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	8270C SIM	129-00-0	Pyrene	0.0047	0.0031	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0035	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0029	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	218-01-9	Chrysene	0.0045	0.0031	mg/kg	J	J	NMED SSL	153	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	206-44-0	Fluoranthene	0.0093	0.0031	mg/kg			NMED SSL	2,320	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	85-01-8	Phenanthrene	0.0042	0.0031	mg/kg	J	J	NMED SSL	1,850	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8270C SIM	129-00-0	Pyrene	0.01	0.0031	mg/kg			NMED SSL	1,740	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	83-32-9	Acenaphthene	0.0029	0.0027	mg/kg	J	J	NMED SSL	3,480	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	120-12-7	Anthracene	0.0055	0.0027	mg/kg			NMED SSL	17,400	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.016	0.0027	mg/kg			NMED SSL	1.53	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.016	0.0027	mg/kg			NMED SSL	1.12	no

Table B.5-2
AOC 43 - Railroad Classification Yard - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.029	0.0027	mg/kg			NMED SSL	1.53	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.012	0.0027	mg/kg			NMED SSL	1,740	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.0064	0.0027	mg/kg			NMED SSL	15.3	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	218-01-9	Chrysene	0.02	0.0027	mg/kg			NMED SSL	153	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0025	0.0027	mg/kg	J	J	NMED SSL	0.153	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.037	0.0027	mg/kg			NMED SSL	2,320	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	86-73-7	Fluorene	0.0021	0.0027	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.01	0.0027	mg/kg			NMED SSL	1.53	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	85-01-8	Phenanthrene	0.023	0.0027	mg/kg			NMED SSL	1,850	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.033	0.0027	mg/kg			NMED SSL	1,740	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0021	0.0031	mg/kg	J	J	NMED SSL	1.12	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0030	0.0031	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.0032	0.0031	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.0029	0.0031	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.0032	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.0041	0.0030	mg/kg	J	J	NMED SSL	1.12	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0077	0.0030	mg/kg			NMED SSL	1.53	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0029	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.0032	0.0030	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.0026	0.0030	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.0028	0.0030	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0043	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.0020	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	8270C SIM	206-44-0	Fluoranthene	0.0025	0.0029	mg/kg	J	J	NMED SSL	2,320	no

Table B.5-2
AOC 43 - Railroad Classification Yard - Semivolatile Organic Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS021-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.0046	0.0029	mg/kg	J	J	NMED SSL	1.53	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.0030	0.0029	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.0029	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8270C SIM	129-00-0	Pyrene	0.0020	0.0029	mg/kg	J	J	NMED SSL	1,740	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	83-32-9	Acenaphthene	0.0028	0.0028	mg/kg	J	J	NMED SSL	3,480	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	208-96-8	Acenaphthylene	0.013	0.0028	mg/kg			NMED SSL	1,740	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	120-12-7	Anthracene	0.026	0.0028	mg/kg			NMED SSL	17,400	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	56-55-3	Benzo(a)anthracene	0.022	0.0028	mg/kg			NMED SSL	1.53	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	50-32-8	Benzo(a)pyrene	0.039	0.0028	mg/kg			NMED SSL	1.12	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	205-99-2	Benzo(b)fluoranthene	0.077	0.0028	mg/kg			NMED SSL	1.53	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	191-24-2	Benzo(g,h,i)perylene	0.047	0.0028	mg/kg			NMED SSL	1,740	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	207-08-9	Benzo(k)fluoranthene	0.016	0.0028	mg/kg			NMED SSL	15.3	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	218-01-9	Chrysene	0.044	0.0028	mg/kg			NMED SSL	153	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	53-70-3	Dibenz(a,h)anthracene	0.0088	0.0028	mg/kg			NMED SSL	0.153	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	206-44-0	Fluoranthene	0.058	0.0028	mg/kg			NMED SSL	2,320	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	86-73-7	Fluorene	0.0032	0.0028	mg/kg	J	J	NMED SSL	2,320	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	193-39-5	Indeno(1,2,3-cd)pyrene	0.034	0.0028	mg/kg			NMED SSL	1.53	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	91-20-3	Naphthalene	0.0096	0.0028	mg/kg			NMED SSL	22.6	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	85-01-8	Phenanthrene	0.032	0.0028	mg/kg			NMED SSL	1,850	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8270C SIM	129-00-0	Pyrene	0.054	0.0028	mg/kg			NMED SSL	1,740	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-3
AOC 43 - Railroad Classification Yard - TPH Compounds
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS010-0.0-0.5DSO	8/20/2014	8015B	68334-30-5	TPH-DRO	6.3	5.6	mg/kg	J	J	NMED SSL	1,000	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8015B	68334-30-5	TPH-DRO	15	5.6	mg/kg			NMED SSL	1,000	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	9,200	5.25	mg/kg			NMED SSL	41,400	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.29	0.420	mg/kg			NMED SSL	7.07	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	194	0.210	mg/kg			NMED SSL	4,390	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.365	0.105	mg/kg	J	J	NMED SSL	148	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	32,000	10.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	3.59	0.210	mg/kg			NMED SSL	23.4	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	3.54	0.315	mg/kg			NMED SSL	3,130	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	9,190	3.15	mg/kg			NMED SSL	54,800	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	20.1	0.315	mg/kg			EPA RSL	200	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	3,070	10.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	356	0.315	mg/kg			NMED SSL	464	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	6.43	0.315	mg/kg			NMED SSL	753	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	1,190	10.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	61.3	10.5	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	6.94	0.315	mg/kg			NMED SSL	96.6	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	19.3	0.157	mg/kg			NMED SSL	394	no
0743RCYSS001-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	16.1	1.05	mg/kg			NMED SSL	23,500	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	16,900	5.24	mg/kg			NMED SSL	41,400	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.31	0.419	mg/kg			NMED SSL	7.07	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	455	0.210	mg/kg		J	NMED SSL	4,390	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.610	0.105	mg/kg	J	J	NMED SSL	148	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	33,500	10.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	5.33	0.210	mg/kg			NMED SSL	23.4	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	6.90	0.315	mg/kg			NMED SSL	3,130	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	14,500	3.15	mg/kg			NMED SSL	54,800	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	26.0	0.315	mg/kg			EPA RSL	200	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	5,460	10.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	565	0.315	mg/kg			NMED SSL	464	YES
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	10.9	0.315	mg/kg		J	NMED SSL	753	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	2,670	10.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	191	10.5	mg/kg		J	NMED SSL	7,820,000	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	10.1	0.315	mg/kg			NMED SSL	96.6	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	26.6	0.157	mg/kg			NMED SSL	394	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	22.6	1.05	mg/kg			NMED SSL	23,500	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7429-90-5	Aluminum	20,700	5.27	mg/kg			NMED SSL	41,400	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-38-2	Arsenic	2.02	0.422	mg/kg			NMED SSL	7.07	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-39-3	Barium	778	0.211	mg/kg		J	NMED SSL	4,390	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-41-7	Beryllium	0.789	0.105	mg/kg	J	J	NMED SSL	148	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-70-2	Calcium	44,100	10.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-48-4	Cobalt	6.20	0.211	mg/kg			NMED SSL	23.4	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-50-8	Copper	8.85	0.316	mg/kg			NMED SSL	3,130	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7439-89-6	Iron	17,000	3.16	mg/kg			NMED SSL	54,800	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7439-92-1	Lead	26.4	0.316	mg/kg			EPA RSL	200	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7439-95-4	Magnesium	6,740	10.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7439-96-5	Manganese	741	0.316	mg/kg			NMED SSL	464	YES
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-02-0	Nickel	14.8	0.316	mg/kg		J	NMED SSL	753	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-09-7	Potassium	3,430	10.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-23-5	Sodium	305	10.5	mg/kg		J	NMED SSL	7,820,000	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-47-3	Total Chromium	12.8	0.316	mg/kg			NMED SSL	96.6	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-62-2	Vanadium	35.3	0.158	mg/kg			NMED SSL	394	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	SW6010B	7440-66-6	Zinc	19.9	1.05	mg/kg			NMED SSL	23,500	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	17,300	5.22	mg/kg			NMED SSL	41,400	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	3.27	0.418	mg/kg			NMED SSL	7.07	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	419	0.209	mg/kg			NMED SSL	4,390	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.889	0.104	mg/kg	J	J	NMED SSL	148	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	39,900	10.4	mg/kg			NMED SSL	8,850,000	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	5.12	0.209	mg/kg			NMED SSL	23.4	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	7.35	0.313	mg/kg			NMED SSL	3,130	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	37,300	3.13	mg/kg			NMED SSL	54,800	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	27.0	0.313	mg/kg			EPA RSL	200	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	5,320	10.4	mg/kg			NMED SSL	1,550,000	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	913	0.313	mg/kg			NMED SSL	464	YES
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	11.1	0.313	mg/kg			NMED SSL	753	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	3,500	10.4	mg/kg			NMED SSL	15,600,000	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	211	10.4	mg/kg			NMED SSL	7,820,000	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	11.3	0.313	mg/kg			NMED SSL	96.6	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	36.4	0.157	mg/kg			NMED SSL	394	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	21.1	1.04	mg/kg			NMED SSL	23,500	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	8,930	5.07	mg/kg			NMED SSL	41,400	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	3.80	0.406	mg/kg			NMED SSL	7.07	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	1,150	0.203	mg/kg			NMED SSL	4,390	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.324	0.101	mg/kg	J	J	NMED SSL	148	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-43-9	Cadmium	0.194	0.203	mg/kg	J	J	NMED SSL	70.5	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	100,000	10.1	mg/kg			NMED SSL	8,850,000	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	3.50	0.203	mg/kg			NMED SSL	23.4	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	4.03	0.304	mg/kg			NMED SSL	3,130	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	15,200	3.04	mg/kg			NMED SSL	54,800	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	20.7	0.304	mg/kg			EPA RSL	200	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	3,500	10.1	mg/kg			NMED SSL	1,550,000	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	1,320	0.304	mg/kg			NMED SSL	464	YES
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	6.37	0.304	mg/kg			NMED SSL	753	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	1,040	10.1	mg/kg			NMED SSL	15,600,000	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	122	10.1	mg/kg			NMED SSL	7,820,000	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	6.53	0.304	mg/kg			NMED SSL	96.6	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	26.2	0.152	mg/kg			NMED SSL	394	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	15.4	1.01	mg/kg			NMED SSL	23,500	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	14,900	5.38	mg/kg			NMED SSL	41,400	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	6.60	0.431	mg/kg			NMED SSL	7.07	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	982	0.215	mg/kg			NMED SSL	4,390	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.580	0.108	mg/kg	J	J	NMED SSL	148	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-43-9	Cadmium	0.141	0.215	mg/kg	J	J	NMED SSL	70.5	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	68,900	10.8	mg/kg			NMED SSL	8,850,000	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	5.36	0.215	mg/kg			NMED SSL	23.4	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	5.49	0.323	mg/kg			NMED SSL	3,130	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	20,100	3.23	mg/kg		J	NMED SSL	54,800	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	26.1	0.323	mg/kg			EPA RSL	200	no

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Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	4,720	10.8	mg/kg		J	NMED SSL	1,550,000	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	1,300	0.323	mg/kg		J	NMED SSL	464	YES
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	9.62	0.323	mg/kg			NMED SSL	753	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	1,920	10.8	mg/kg			NMED SSL	15,600,000	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	187	10.8	mg/kg			NMED SSL	7,820,000	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	10.6	0.323	mg/kg			NMED SSL	96.6	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	81.9	0.161	mg/kg		J	NMED SSL	394	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	23.7	1.08	mg/kg			NMED SSL	23,500	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	6,500	5.01	mg/kg			NMED SSL	41,400	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.68	0.401	mg/kg			NMED SSL	7.07	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	973	0.200	mg/kg			NMED SSL	4,390	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	0.472	0.100	mg/kg	J	J	NMED SSL	148	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	46,000	10.0	mg/kg			NMED SSL	8,850,000	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	3.29	0.200	mg/kg			NMED SSL	23.4	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	4.27	0.301	mg/kg			NMED SSL	3,130	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	16,200	3.01	mg/kg			NMED SSL	54,800	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	24.4	0.301	mg/kg			EPA RSL	200	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	3,280	10.0	mg/kg			NMED SSL	1,550,000	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	653	0.301	mg/kg			NMED SSL	464	YES
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	5.91	0.301	mg/kg			NMED SSL	753	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	726	10.0	mg/kg			NMED SSL	15,600,000	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	63.8	10.0	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	13.5	0.301	mg/kg			NMED SSL	96.6	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	36.0	0.150	mg/kg			NMED SSL	394	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS006-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	9.55	1.00	mg/kg			NMED SSL	23,500	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	6,960	4.75	mg/kg			NMED SSL	41,400	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.95	0.380	mg/kg			NMED SSL	7.07	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	439	0.190	mg/kg			NMED SSL	4,390	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.412	0.0950	mg/kg	J	J	NMED SSL	148	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	44,100	9.50	mg/kg			NMED SSL	8,850,000	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	2.93	0.190	mg/kg			NMED SSL	23.4	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	3.68	0.285	mg/kg			NMED SSL	3,130	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	11,000	2.85	mg/kg			NMED SSL	54,800	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	15.1	0.285	mg/kg			EPA RSL	200	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	3,960	9.50	mg/kg			NMED SSL	1,550,000	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	602	0.285	mg/kg			NMED SSL	464	YES
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	5.21	0.285	mg/kg			NMED SSL	753	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	673	9.50	mg/kg			NMED SSL	15,600,000	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	42.8	9.50	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	9.45	0.285	mg/kg			NMED SSL	96.6	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	23.5	0.142	mg/kg			NMED SSL	394	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	9.77	0.950	mg/kg			NMED SSL	23,500	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	8,800	5.47	mg/kg			NMED SSL	41,400	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.21	0.438	mg/kg			NMED SSL	7.07	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	485	0.219	mg/kg			NMED SSL	4,390	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.418	0.109	mg/kg	J	J	NMED SSL	148	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	36,100	10.9	mg/kg			NMED SSL	8,850,000	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	3.69	0.219	mg/kg			NMED SSL	23.4	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	3.80	0.328	mg/kg			NMED SSL	3,130	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	11,000	3.28	mg/kg		J	NMED SSL	54,800	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	18.2	0.328	mg/kg			EPA RSL	200	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	3,000	10.9	mg/kg			NMED SSL	1,550,000	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	535	0.328	mg/kg		J	NMED SSL	464	YES
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	6.55	0.328	mg/kg			NMED SSL	753	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	1,210	10.9	mg/kg			NMED SSL	15,600,000	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	58.7	10.9	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	6.81	0.328	mg/kg			NMED SSL	96.6	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	16.9	0.164	mg/kg		J	NMED SSL	394	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	16.5	1.09	mg/kg			NMED SSL	23,500	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7429-90-5	Aluminum	9,500	5.18	mg/kg			NMED SSL	41,400	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-38-2	Arsenic	3.17	0.414	mg/kg			NMED SSL	7.07	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-39-3	Barium	414	0.207	mg/kg			NMED SSL	4,390	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-41-7	Beryllium	0.548	0.104	mg/kg	J	J	NMED SSL	148	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-70-2	Calcium	27,200	10.4	mg/kg			NMED SSL	8,850,000	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-48-4	Cobalt	3.84	0.207	mg/kg			NMED SSL	23.4	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-50-8	Copper	5.05	0.311	mg/kg			NMED SSL	3,130	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-89-6	Iron	21,400	3.11	mg/kg		J	NMED SSL	54,800	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-92-1	Lead	18.3	0.311	mg/kg			EPA RSL	200	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-95-4	Magnesium	3,190	10.4	mg/kg			NMED SSL	1,550,000	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-96-5	Manganese	1,100	0.311	mg/kg		J	NMED SSL	464	YES
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-02-0	Nickel	7.95	0.311	mg/kg			NMED SSL	753	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-09-7	Potassium	1,320	10.4	mg/kg			NMED SSL	15,600,000	no

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0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-23-5	Sodium	60.3	10.4	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-28-0	Thallium	0.386	0.518	mg/kg	J	J	NMED SSL	0.782	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-47-3	Total Chromium	7.47	0.311	mg/kg			NMED SSL	96.6	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-62-2	Vanadium	26.5	0.155	mg/kg		J	NMED SSL	394	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-66-6	Zinc	19.1	1.04	mg/kg			NMED SSL	23,500	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	11,400	5.23	mg/kg			NMED SSL	41,400	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.28	0.418	mg/kg			NMED SSL	7.07	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	510	0.209	mg/kg			NMED SSL	4,390	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.631	0.105	mg/kg	J	J	NMED SSL	148	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	34,900	10.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	4.63	0.209	mg/kg			NMED SSL	23.4	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	5.06	0.314	mg/kg			NMED SSL	3,130	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	14,100	3.14	mg/kg			NMED SSL	54,800	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	20.4	0.314	mg/kg			EPA RSL	200	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	4,290	10.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	401	0.314	mg/kg			NMED SSL	464	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	8.43	0.314	mg/kg			NMED SSL	753	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	1,500	10.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	64.1	10.5	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	10.8	0.314	mg/kg			NMED SSL	96.6	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	27.5	0.157	mg/kg			NMED SSL	394	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	18.2	1.05	mg/kg			NMED SSL	23,500	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	9,930	5.21	mg/kg			NMED SSL	41,400	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.36	0.416	mg/kg			NMED SSL	7.07	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	373	0.208	mg/kg			NMED SSL	4,390	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.638	0.104	mg/kg	J	J	NMED SSL	148	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	34,400	10.4	mg/kg			NMED SSL	8,850,000	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	3.80	0.208	mg/kg			NMED SSL	23.4	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	5.17	0.312	mg/kg			NMED SSL	3,130	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	16,300	3.12	mg/kg			NMED SSL	54,800	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	20.8	0.312	mg/kg			EPA RSL	200	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	3,640	10.4	mg/kg			NMED SSL	1,550,000	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	580	0.312	mg/kg			NMED SSL	464	YES
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	7.70	0.312	mg/kg			NMED SSL	753	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	1,270	10.4	mg/kg			NMED SSL	15,600,000	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	72.4	10.4	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	13.5	0.312	mg/kg			NMED SSL	96.6	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	35.8	0.156	mg/kg			NMED SSL	394	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	14.0	1.04	mg/kg			NMED SSL	23,500	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	31,600	6.00	mg/kg			NMED SSL	41,400	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.53	0.480	mg/kg			NMED SSL	7.07	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	306	0.240	mg/kg			NMED SSL	4,390	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.18	0.120	mg/kg	J	J	NMED SSL	148	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	39,300	12.0	mg/kg			NMED SSL	8,850,000	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	8.11	0.240	mg/kg			NMED SSL	23.4	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	7.96	0.360	mg/kg			NMED SSL	3,130	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	21,000	3.60	mg/kg			NMED SSL	54,800	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	30.7	0.360	mg/kg			EPA RSL	200	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	10,800	12.0	mg/kg			NMED SSL	1,550,000	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	440	0.360	mg/kg			NMED SSL	464	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	19.2	0.360	mg/kg			NMED SSL	753	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	5,810	12.0	mg/kg			NMED SSL	15,600,000	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	918	12.0	mg/kg			NMED SSL	7,820,000	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	21.0	0.360	mg/kg			NMED SSL	96.6	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	39.6	0.180	mg/kg			NMED SSL	394	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	34.3	1.20	mg/kg			NMED SSL	23,500	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	28,400	5.74	mg/kg			NMED SSL	41,400	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.39	0.459	mg/kg			NMED SSL	7.07	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	284	0.230	mg/kg			NMED SSL	4,390	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.03	0.115	mg/kg	J	J	NMED SSL	148	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	34,900	11.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	7.04	0.230	mg/kg			NMED SSL	23.4	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	7.58	0.344	mg/kg			NMED SSL	3,130	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	18,000	3.44	mg/kg			NMED SSL	54,800	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	23.8	0.344	mg/kg			EPA RSL	200	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	9,620	11.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	445	0.344	mg/kg			NMED SSL	464	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	16.7	0.344	mg/kg			NMED SSL	753	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	5,200	11.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	1,170	11.5	mg/kg			NMED SSL	7,820,000	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	18.5	0.344	mg/kg			NMED SSL	96.6	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	34.3	0.172	mg/kg			NMED SSL	394	no

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Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS012-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	30.2	1.15	mg/kg			NMED SSL	23,500	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	31,900	5.91	mg/kg			NMED SSL	41,400	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.66	0.473	mg/kg			NMED SSL	7.07	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	318	0.237	mg/kg			NMED SSL	4,390	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.22	0.118	mg/kg			NMED SSL	148	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	33,800	11.8	mg/kg			NMED SSL	8,850,000	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	8.41	0.237	mg/kg			NMED SSL	23.4	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	8.26	0.355	mg/kg			NMED SSL	3,130	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	21,200	3.55	mg/kg			NMED SSL	54,800	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	29.0	0.355	mg/kg			EPA RSL	200	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	10,800	11.8	mg/kg			NMED SSL	1,550,000	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	469	0.355	mg/kg			NMED SSL	464	YES
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	19.4	0.355	mg/kg			NMED SSL	753	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	5,960	11.8	mg/kg			NMED SSL	15,600,000	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	1,110	11.8	mg/kg			NMED SSL	7,820,000	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	21.0	0.355	mg/kg			NMED SSL	96.6	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	39.4	0.177	mg/kg			NMED SSL	394	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	33.4	1.18	mg/kg			NMED SSL	23,500	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	39,600	5.60	mg/kg			NMED SSL	41,400	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.72	0.448	mg/kg			NMED SSL	7.07	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	375	0.224	mg/kg			NMED SSL	4,390	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.49	0.112	mg/kg			NMED SSL	148	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	32,900	11.2	mg/kg			NMED SSL	8,850,000	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	9.94	0.224	mg/kg			NMED SSL	23.4	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	9.10	0.336	mg/kg			NMED SSL	3,130	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	25,500	3.36	mg/kg			NMED SSL	54,800	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	29.6	0.336	mg/kg			EPA RSL	200	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	13,300	11.2	mg/kg			NMED SSL	1,550,000	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	464	0.336	mg/kg			NMED SSL	464	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	23.0	0.336	mg/kg			NMED SSL	753	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	7,760	11.2	mg/kg			NMED SSL	15,600,000	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	1,600	11.2	mg/kg			NMED SSL	7,820,000	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	26.1	0.336	mg/kg			NMED SSL	96.6	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	46.0	0.168	mg/kg			NMED SSL	394	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	41.3	1.12	mg/kg			NMED SSL	23,500	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	30,700	5.63	mg/kg			NMED SSL	41,400	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.13	0.450	mg/kg			NMED SSL	7.07	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	315	0.225	mg/kg			NMED SSL	4,390	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	1.22	0.113	mg/kg			NMED SSL	148	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	42,100	11.3	mg/kg			NMED SSL	8,850,000	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	8.14	0.225	mg/kg			NMED SSL	23.4	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	7.71	0.338	mg/kg			NMED SSL	3,130	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	20,600	3.38	mg/kg			NMED SSL	54,800	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	24.3	0.338	mg/kg			EPA RSL	200	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	10,800	11.3	mg/kg			NMED SSL	1,550,000	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	516	0.338	mg/kg			NMED SSL	464	YES
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	18.6	0.338	mg/kg			NMED SSL	753	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	5,720	11.3	mg/kg			NMED SSL	15,600,000	no

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0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	1,270	11.3	mg/kg			NMED SSL	7,820,000	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.338	mg/kg			NMED SSL	96.6	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	38.0	0.169	mg/kg			NMED SSL	394	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	31.5	1.13	mg/kg			NMED SSL	23,500	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	10,200	4.82	mg/kg			NMED SSL	41,400	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	3.93	0.386	mg/kg			NMED SSL	7.07	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	588	0.193	mg/kg			NMED SSL	4,390	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.640	0.0964	mg/kg	J	J	NMED SSL	148	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	47,200	9.64	mg/kg			NMED SSL	8,850,000	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	4.50	0.193	mg/kg			NMED SSL	23.4	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	6.14	0.289	mg/kg			NMED SSL	3,130	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	29,000	2.89	mg/kg			NMED SSL	54,800	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	18.0	0.289	mg/kg			EPA RSL	200	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	3,660	9.64	mg/kg			NMED SSL	1,550,000	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	**1,190**	0.289	mg/kg			NMED SSL	464	**YES**
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	8.01	0.289	mg/kg			NMED SSL	753	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	1,680	9.64	mg/kg			NMED SSL	15,600,000	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	160	9.64	mg/kg			NMED SSL	7,820,000	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	7.80	0.289	mg/kg			NMED SSL	96.6	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	28.8	0.145	mg/kg			NMED SSL	394	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	25.5	0.964	mg/kg			NMED SSL	23,500	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	34,400	5.74	mg/kg			NMED SSL	41,400	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	1.97	0.459	mg/kg			NMED SSL	7.07	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	322	0.229	mg/kg			NMED SSL	4,390	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	1.35	0.115	mg/kg			NMED SSL	148	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	40,900	11.5	mg/kg			NMED SSL	8,850,000	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	9.27	0.229	mg/kg			NMED SSL	23.4	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	8.42	0.344	mg/kg			NMED SSL	3,130	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	22,700	3.44	mg/kg			NMED SSL	54,800	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	26.9	0.344	mg/kg			EPA RSL	200	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	11,800	11.5	mg/kg			NMED SSL	1,550,000	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	390	0.344	mg/kg			NMED SSL	464	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	21.0	0.344	mg/kg			NMED SSL	753	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	7,170	11.5	mg/kg			NMED SSL	15,600,000	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	382	11.5	mg/kg			NMED SSL	7,820,000	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	24.0	0.344	mg/kg			NMED SSL	96.6	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	40.7	0.172	mg/kg			NMED SSL	394	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	36.2	1.15	mg/kg			NMED SSL	23,500	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	19,200	5.36	mg/kg			NMED SSL	41,400	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	4.11	0.429	mg/kg			NMED SSL	7.07	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	248	0.215	mg/kg			NMED SSL	4,390	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.949	0.107	mg/kg	J	J	NMED SSL	148	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	20,600	10.7	mg/kg			NMED SSL	8,850,000	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	6.84	0.215	mg/kg			NMED SSL	23.4	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	11.8	0.322	mg/kg			NMED SSL	3,130	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	18,000	3.22	mg/kg			NMED SSL	54,800	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	23.4	0.322	mg/kg			EPA RSL	200	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	6,020	10.7	mg/kg			NMED SSL	1,550,000	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	361	0.322	mg/kg			NMED SSL	464	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	12.7	0.322	mg/kg			NMED SSL	753	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	5,210	10.7	mg/kg			NMED SSL	15,600,000	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	68.4	10.7	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	14.2	0.322	mg/kg			NMED SSL	96.6	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	33.6	0.161	mg/kg			NMED SSL	394	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	45.5	1.07	mg/kg			NMED SSL	23,500	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	SW7471A	7439-97-6	Mercury	0.0135	0.0235	mg/kg	J	J	NMED SSL	20.7	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	31,700	5.13	mg/kg			NMED SSL	41,400	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.55	0.410	mg/kg			NMED SSL	7.07	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	305	0.205	mg/kg			NMED SSL	4,390	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.19	0.103	mg/kg			NMED SSL	148	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	43,700	10.3	mg/kg			NMED SSL	8,850,000	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	8.41	0.205	mg/kg			NMED SSL	23.4	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	7.85	0.308	mg/kg			NMED SSL	3,130	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	20,900	3.08	mg/kg			NMED SSL	54,800	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	25.6	0.308	mg/kg			EPA RSL	200	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	11,300	10.3	mg/kg			NMED SSL	1,550,000	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	548	0.308	mg/kg			NMED SSL	464	YES
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	19.3	0.308	mg/kg			NMED SSL	753	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	5,670	10.3	mg/kg			NMED SSL	15,600,000	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	1,670	10.3	mg/kg			NMED SSL	7,820,000	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	21.1	0.308	mg/kg			NMED SSL	96.6	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	40.1	0.154	mg/kg			NMED SSL	394	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS019-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	32.5	1.03	mg/kg			NMED SSL	23,500	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7429-90-5	Aluminum	41,300	5.92	mg/kg			NMED SSL	41,400	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-38-2	Arsenic	2.96	0.474	mg/kg			NMED SSL	7.07	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-39-3	Barium	331	0.237	mg/kg			NMED SSL	4,390	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-41-7	Beryllium	1.49	0.118	mg/kg			NMED SSL	148	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-70-2	Calcium	30,300	11.8	mg/kg			NMED SSL	8,850,000	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-48-4	Cobalt	9.92	0.237	mg/kg			NMED SSL	23.4	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-50-8	Copper	9.07	0.355	mg/kg			NMED SSL	3,130	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7439-89-6	Iron	25,600	3.55	mg/kg			NMED SSL	54,800	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7439-92-1	Lead	29.7	0.355	mg/kg			EPA RSL	200	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7439-95-4	Magnesium	13,500	11.8	mg/kg			NMED SSL	1,550,000	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7439-96-5	Manganese	473	0.355	mg/kg			NMED SSL	464	YES
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-02-0	Nickel	23.0	0.355	mg/kg			NMED SSL	753	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-09-7	Potassium	8,450	11.8	mg/kg			NMED SSL	15,600,000	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-23-5	Sodium	1,150	11.8	mg/kg			NMED SSL	7,820,000	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-47-3	Total Chromium	27.2	0.355	mg/kg			NMED SSL	96.6	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-62-2	Vanadium	47.9	0.178	mg/kg			NMED SSL	394	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	SW6010B	7440-66-6	Zinc	42.4	1.18	mg/kg			NMED SSL	23,500	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	21,200	5.29	mg/kg			NMED SSL	41,400	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	3.64	0.424	mg/kg			NMED SSL	7.07	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	273	0.212	mg/kg			NMED SSL	4,390	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	1.01	0.106	mg/kg	J	J	NMED SSL	148	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	29,700	10.6	mg/kg			NMED SSL	8,850,000	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	7.63	0.212	mg/kg			NMED SSL	23.4	no

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Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	11.5	0.318	mg/kg			NMED SSL	3,130	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	18,600	3.18	mg/kg			NMED SSL	54,800	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	25.1	0.318	mg/kg			EPA RSL	200	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	6,630	10.6	mg/kg			NMED SSL	1,550,000	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	413	0.318	mg/kg			NMED SSL	464	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	14.1	0.318	mg/kg			NMED SSL	753	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	4,800	10.6	mg/kg			NMED SSL	15,600,000	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	495	10.6	mg/kg			NMED SSL	7,820,000	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	15.2	0.318	mg/kg			NMED SSL	96.6	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	32.5	0.159	mg/kg			NMED SSL	394	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	43.2	1.06	mg/kg			NMED SSL	23,500	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	23,100	5.44	mg/kg			NMED SSL	41,400	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	2.75	0.435	mg/kg			NMED SSL	7.07	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	320	0.218	mg/kg			NMED SSL	4,390	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	1.10	0.109	mg/kg			NMED SSL	148	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	30,500	10.9	mg/kg			NMED SSL	8,850,000	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	7.63	0.218	mg/kg			NMED SSL	23.4	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	9.64	0.326	mg/kg			NMED SSL	3,130	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	18,000	3.26	mg/kg			NMED SSL	54,800	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	25.6	0.326	mg/kg			EPA RSL	200	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	8,020	10.9	mg/kg			NMED SSL	1,550,000	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	338	0.326	mg/kg			NMED SSL	464	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	15.6	0.326	mg/kg			NMED SSL	753	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	5,080	10.9	mg/kg			NMED SSL	15,600,000	no

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SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	307	10.9	mg/kg			NMED SSL	7,820,000	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	16.6	0.326	mg/kg			NMED SSL	96.6	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	34.2	0.163	mg/kg			NMED SSL	394	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	37.7	1.09	mg/kg			NMED SSL	23,500	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7429-90-5	Aluminum	22,100	5.38	mg/kg			NMED SSL	41,400	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-38-2	Arsenic	2.40	0.430	mg/kg			NMED SSL	7.07	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-39-3	Barium	369	0.215	mg/kg			NMED SSL	4,390	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-41-7	Beryllium	1.02	0.108	mg/kg	J	J	NMED SSL	148	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-70-2	Calcium	32,100	10.8	mg/kg			NMED SSL	8,850,000	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-48-4	Cobalt	6.71	0.215	mg/kg			NMED SSL	23.4	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-50-8	Copper	8.39	0.323	mg/kg			NMED SSL	3,130	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-89-6	Iron	17,100	3.23	mg/kg			NMED SSL	54,800	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-92-1	Lead	24.1	0.323	mg/kg			EPA RSL	200	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-95-4	Magnesium	7,880	10.8	mg/kg			NMED SSL	1,550,000	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7439-96-5	Manganese	364	0.323	mg/kg			NMED SSL	464	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-02-0	Nickel	14.4	0.323	mg/kg			NMED SSL	753	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-09-7	Potassium	4,420	10.8	mg/kg			NMED SSL	15,600,000	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-23-5	Sodium	341	10.8	mg/kg			NMED SSL	7,820,000	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-47-3	Total Chromium	16.1	0.323	mg/kg			NMED SSL	96.6	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-62-2	Vanadium	31.7	0.161	mg/kg			NMED SSL	394	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	SW6010B	7440-66-6	Zinc	32.1	1.08	mg/kg			NMED SSL	23,500	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	21,500	5.63	mg/kg			NMED SSL	41,400	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	3.89	0.451	mg/kg			NMED SSL	7.07	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	219	0.225	mg/kg			NMED SSL	4,390	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	1.00	0.113	mg/kg	J	J	NMED SSL	148	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	18,500	11.3	mg/kg			NMED SSL	8,850,000	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	7.84	0.225	mg/kg			NMED SSL	23.4	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	12.1	0.338	mg/kg			NMED SSL	3,130	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	18,500	3.38	mg/kg			NMED SSL	54,800	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	24.2	0.338	mg/kg			EPA RSL	200	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	6,560	11.3	mg/kg			NMED SSL	1,550,000	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	434	0.338	mg/kg			NMED SSL	464	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	14.0	0.338	mg/kg			NMED SSL	753	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	5,800	11.3	mg/kg			NMED SSL	15,600,000	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	77.8	11.3	mg/kg	J	J	NMED SSL	7,820,000	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	15.7	0.338	mg/kg			NMED SSL	96.6	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	33.7	0.169	mg/kg			NMED SSL	394	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	48.9	1.13	mg/kg			NMED SSL	23,500	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7429-90-5	Aluminum	17,900	5.09	mg/kg		J	NMED SSL	41,400	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-38-2	Arsenic	3.38	0.407	mg/kg			NMED SSL	7.07	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-39-3	Barium	282	0.204	mg/kg		J	NMED SSL	4,390	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-41-7	Beryllium	0.852	0.102	mg/kg	J	J	NMED SSL	148	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-70-2	Calcium	26,400	10.2	mg/kg		J	NMED SSL	8,850,000	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-48-4	Cobalt	6.65	0.204	mg/kg			NMED SSL	23.4	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-50-8	Copper	10.6	0.305	mg/kg			NMED SSL	3,130	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7439-89-6	Iron	15,900	3.05	mg/kg		J	NMED SSL	54,800	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7439-92-1	Lead	22.6	0.305	mg/kg			EPA RSL	200	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7439-95-4	Magnesium	5,670	10.2	mg/kg		J	NMED SSL	1,550,000	no

Table B.5-4
AOC 43 - Railroad Classification Yard - Metals
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7439-96-5	Manganese	383	0.305	mg/kg			NMED SSL	464	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-02-0	Nickel	12.0	0.305	mg/kg			NMED SSL	753	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-09-7	Potassium	4,140	10.2	mg/kg			NMED SSL	15,600,000	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-23-5	Sodium	114	10.2	mg/kg			NMED SSL	7,820,000	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-47-3	Total Chromium	13.3	0.305	mg/kg			NMED SSL	96.6	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-62-2	Vanadium	28.6	0.153	mg/kg		J	NMED SSL	394	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	SW6010B	7440-66-6	Zinc	39.6	1.02	mg/kg			NMED SSL	23,500	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000297	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000289	0.000000096	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000029	0.00000013	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000035	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000011	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000065	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000059	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000018	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.000404	0.00000012	mg/kg			--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	39001-02-0	OCDF	0.0000127	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS001-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.000000804		mg/kg			NMED SSL	0.000049	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000553	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000450	0.000000096	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000449	0.000000095	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000023	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.0000367	0.00000012	mg/kg		J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	39001-02-0	OCDF	0.00000081	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.000000139		mg/kg			NMED SSL	0.000049	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000959	0.00000010	mg/kg			--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000903	0.000000094	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000016	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.000000630	0.000000099	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000041	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	3268-87-9	OCDD	0.0000656	0.00000011	mg/kg		J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	39001-02-0	OCDF	0.00000120	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.000000365		mg/kg			NMED SSL	0.000049	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000040	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS003-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000615	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS003-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000585		mg/kg			NMED SSL	0.000049	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS004-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000138	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS004-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000231		mg/kg			NMED SSL	0.000049	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000254	0.00000013	mg/kg			--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000237	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000212	0.00000014	mg/kg	J	J	--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000037	0.00000015	mg/kg	J	J	--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.000262	0.00000013	mg/kg			--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	39001-02-0	OCDF	0.00000758	0.00000013	mg/kg	J	J	--	NS	No Standard
0743RCYSS005-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.000000781		mg/kg			NMED SSL	0.000049	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000035	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS006-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000300	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS006-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000440		mg/kg			NMED SSL	0.000049	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000104	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS007-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000149	0.000000089	mg/kg	J	J	--	NS	No Standard
0743RCYSS007-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000141	0.00000012	mg/kg		J	--	NS	No Standard
0743RCYSS007-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000161		mg/kg			NMED SSL	0.000049	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000180	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS008-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000185	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS008-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000034	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS008-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000237		mg/kg			NMED SSL	0.000049	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000133	0.000000095	mg/kg	J	J	--	NS	No Standard
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	8290A	3268-87-9	OCDD	0.0000144	0.00000015	mg/kg			--	NS	No Standard
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	8290A	39001-02-0	OCDF	0.00000038	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000177		mg/kg			NMED SSL	0.000049	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.0000145	0.00000010	mg/kg			--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000132	0.000000093	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.00000024	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000093	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000062	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.000107	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000291	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS009-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.000000552		mg/kg			NMED SSL	0.000049	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00236	0.0000024	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000284	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.0000194	0.00000013	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	39227-28-6	1,2,3,4,7,8-HxCDD	0.0000229	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	70648-26-9	1,2,3,4,7,8-HxCDF	0.00000625	0.00000016	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.0000694	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	57117-44-9	1,2,3,6,7,8-HxCDF	0.00000337	0.00000016	mg/kg	J	J	--	NS	No Standard

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.0000440	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	40321-76-4	1,2,3,7,8-PeCDD	0.00000947	0.00000020	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.00000303	0.00000016	mg/kg	J	J	--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	57117-31-4	2,3,4,7,8-PeCDF	0.00000035	0.00000022	mg/kg	J	J	--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	1746-01-6	2,3,7,8-TCDD	0.00000084	0.00000024	mg/kg	J	J	NMED SSL	0.000049	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0316	0.0000053	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00191	0.00000017	mg/kg			--	NS	No Standard
0743RCYSS010-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	**0.0000620**		mg/kg			NMED SSL	0.000049	**YES**
0743RCYSS011-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000012	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS011-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000090	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS011-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000147		mg/kg			NMED SSL	0.000049	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000080	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS012-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	2.40E-10		mg/kg			NMED SSL	0.000049	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000147	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS013-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	4.41E-10		mg/kg			NMED SSL	0.000049	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000034	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS014-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000326	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS014-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000438		mg/kg			NMED SSL	0.000049	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000012	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS015-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.00000076	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS015-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000143		mg/kg			NMED SSL	0.000049	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000554	0.00000012	mg/kg			--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.00000134	0.000000084	mg/kg	J	J	--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	55673-89-7	1,2,3,4,7,8,9-HpCDF	0.00000014	0.00000010	mg/kg	J	J	--	NS	No Standard

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000023	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000017	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	60851-34-5	2,3,4,6,7,8-HxCDF	0.000000174	0.000000087	mg/kg	J	J	--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.000109	0.00000014	mg/kg			--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000347	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS016-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.000000161		mg/kg			NMED SSL	0.000049	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000106	0.000000089	mg/kg	J	J	--	NS	No Standard
0743RCYSS017-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000171	0.00000019	mg/kg			--	NS	No Standard
0743RCYSS017-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000157		mg/kg			NMED SSL	0.000049	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000236	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS018-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000106	0.000000073	mg/kg	J	J	--	NS	No Standard
0743RCYSS018-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000724	0.00000013	mg/kg			--	NS	No Standard
0743RCYSS018-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000013	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS018-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000464		mg/kg			NMED SSL	0.000049	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000018	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS019-0.0-0.5DSO	8/21/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000147	0.000000099	mg/kg	J	J	--	NS	No Standard
0743RCYSS019-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000171	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS019-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000378		mg/kg			NMED SSL	0.000049	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000048	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS020-0.0-0.5DSO	8/21/2014	8290A	3268-87-9	OCDD	0.00000562	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS020-0.0-0.5DSO	8/21/2014	8290A	39001-02-0	OCDF	0.00000019	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS020-0.0-0.5DSO	8/21/2014	8290A	TEQ	Total Toxic Equivalency	0.00000000655		mg/kg			NMED SSL	0.000049	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000398	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS021-0.0-0.5DSO	8/20/2014	8290A	19408-74-3	1,2,3,7,8,9-HxCDD	0.00000015	0.00000011	mg/kg	J	J	--	NS	No Standard

Table B.5-5
AOC 43 - Railroad Classification Yard - Dioxins/Furans
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS021-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.000129	0.00000012	mg/kg		J	--	NS	No Standard
0743RCYSS021-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000016	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS021-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000935		mg/kg			NMED SSL	0.000049	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000146	0.000000080	mg/kg	J	J	--	NS	No Standard
0743RCYSS022-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000136	0.000000078	mg/kg	J	J	--	NS	No Standard
0743RCYSS022-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000274	0.00000012	mg/kg			--	NS	No Standard
0743RCYSS022-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000030	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS022-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000243		mg/kg			NMED SSL	0.000049	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000164	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8290A	3268-87-9	OCDD	0.0000239	0.00000011	mg/kg			--	NS	No Standard
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8290A	39001-02-0	OCDF	0.00000040	0.00000012	mg/kg	J	J	--	NS	No Standard
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000237		mg/kg			NMED SSL	0.000049	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000361	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS023-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.000119	0.00000012	mg/kg			--	NS	No Standard
0743RCYSS023-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000024	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS023-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000719		mg/kg			NMED SSL	0.000049	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	35822-46-9	1,2,3,4,6,7,8-HpCDD	0.00000416	0.00000010	mg/kg	J	J	--	NS	No Standard
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	67562-39-4	1,2,3,4,6,7,8-HpCDF	0.000000459	0.000000049	mg/kg	J	J	--	NS	No Standard
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	57653-85-7	1,2,3,6,7,8-HxCDD	0.00000011	0.00000010	mg/kg	JK		--	NS	No Standard
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	3268-87-9	OCDD	0.0000995	0.00000010	mg/kg			--	NS	No Standard
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	39001-02-0	OCDF	0.00000048	0.00000011	mg/kg	J	J	--	NS	No Standard
0743RCYSS024-0.0-0.5DSO	8/20/2014	8290A	TEQ	Total Toxic Equivalency	0.0000000872		mg/kg			NMED SSL	0.000049	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-6
AOC 43 - Railroad Classification Yard - Perchlorate
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS002-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.000681	0.00115	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS002-0.0-0.5DSO-DUP	8/21/2014	6850	14797-73-0	Perchlorate	0.00110	0.00112	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.000767	0.00113	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.000585	0.00104	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00102	0.00125	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00234	0.00119	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00150	0.00124	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00164	0.00123	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00154	0.0012	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00108	0.00123	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.000821	0.00119	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00222	0.00116	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	6850	14797-73-0	Perchlorate	0.00230	0.00124	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00139	0.00115	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00139	0.00119	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	6850	14797-73-0	Perchlorate	0.00122	0.00114	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS023-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00158	0.00117	mg/kg	J	J	NMED SSL	54.8	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	6850	14797-73-0	Perchlorate	0.00123	0.00112	mg/kg	J	J	NMED SSL	54.8	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
NS	No Standard
RSL	Regional Screening Level
SSL	Soil Screening Level
SWMU	Solid Waste Management Unit
USACE	United States Army Corps of Engineers

Lab Qualifier Codes:

J	Indicates that the analyte is positively identified and the result is less than the LOQ but greater than the DL.

Validation Qualifier Codes:

J	The analyte was positively identified; the associated numerical value is the approximate concentration

Sample ID Nomenclature:

Sample ID's consist of a combination of Parcel, SWMU, additional site identifier, purpose of sample, increment number, sample depth, sample type, and matrix.

Example: 0709POLSS001-0.5-1.0DSO

Parcel: 07
SWMU: 09
Additional Site Identifier: POL (Petroleum, Oils and Lubricants)
Purpose of Sample: SS (Surface Soil)
Increment number: 001 (samples collected within each excavation area will be assigned sequential 2-digit numbers)
Sample Depth: 0.5-1.0 (0.5-1.0 feet; depth of sample)
Sample Type: D (discrete) C (composite)
Sample Matrix: SO (soil)
DUP = Field Duplicate (when applicable)

Screening level exceedances indicated by red result and a yellow highlighted "YES".

+ Screening Level Sources:

The Human Health Screening Value is the lowest NMED Direct Contact Screening Level (for residents, industrial/occupational workers, and construction workers) via NMED Risk Assessment Guidance for Site Investigations and Remediation, November 2022 Revised. If there is no NMED Direct Contact Screening Level, the lowest EPA Residential RSL is selected for a target excess cancer risk level of 1 x 10-5 or target noncancer hazard quotient of 1.0 (November 2023). The most recent screening levels published by NMED and USEPA at the time the risk evaluation is conducted will be used in the risk evaluation.

Table B.5-7
AOC 43 - Railroad Classification Yard - Nitrate as N
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS001-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.277	0.545	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS002-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.293	0.577	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS003-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.300	0.564	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS004-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.319	0.538	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS005-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.405	0.571	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS006-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.286	0.541	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS007-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.340	0.522	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS008-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.785	0.569	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS008-0.0-0.5DSO-DUP	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.871	0.549	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS009-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.820	0.543	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS010-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.675	0.557	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS011-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	1.51	0.623	mg/kg			NMED SSL	125,000	no
0743RCYSS012-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.537	0.597	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS013-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	1.28	0.621	mg/kg			NMED SSL	125,000	no
0743RCYSS014-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.889	0.616	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS015-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	1.17	0.602	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS016-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.461	0.530	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS017-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.779	0.613	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS018-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.711	0.595	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS019-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	0.616	0.579	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS020-0.0-0.5DSO	8/21/2014	E300.0	17778-88-0	NITRATE-N	1.69	0.622	mg/kg			NMED SSL	125,000	no
0743RCYSS021-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	1.11	0.577	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS022-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.717	0.593	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS022-0.0-0.5DSO-DUP	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.828	0.570	mg/kg	J	J	NMED SSL	125,000	no

Table B.5-7
AOC 43 - Railroad Classification Yard - Nitrate as N
Summary of Sample Result Detections (August 2014) - Direct Contact Screening

SAMPLE ID	DATE COLLECTED	METHOD	CAS #	ANALYTE	RESULT	LOD	UNITS	LAB QUALIFIER	VALIDATION QUALIFIER	HUMAN HEALTH DC SCREENING LEVEL SOURCES+	HH DC VALUE	EXCEEDS HH DC LEVEL?
0743RCYSS023-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.733	0.585	mg/kg	J	J	NMED SSL	125,000	no
0743RCYSS024-0.0-0.5DSO	8/20/2014	E300.0	17778-88-0	NITRATE-N	0.822	0.560	mg/kg	J	J	NMED SSL	125,000	no

Notes:

CAS	Chemical Abstracts Service
DC	Direct Contact
DL	Detection Limit
EPA	Environmental Protection Agency
HH	Human Health
ID	Identification
LOD	Limit of Detection
LOQ	Limit of Quantiation
mg/kg	milligrams per kilogram
NMED	New Mexico Environment Department
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