

Prepared for
Nevada Environmental Response Trust

Prepared by
Ramboll Americas Engineering Solutions, Inc.
Emeryville, California

Project Number
1690029369-009

Date
December 20, 2023

**REFINED SCREENING-LEVEL ECOLOGICAL
RISK ASSESSMENT FOR OPERABLE UNIT 2,
REVISION 2**
**NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA**

Refined Screening-Level Ecological Risk Assessment for Operable Unit 2, Revision 2

Nevada Environmental Response Trust Site (Former Tronox LLC Site) Henderson, Nevada

Nevada Environmental Response Trust (NERT) Representative Certification

I certify that this document and all attachments submitted to the Division were prepared at the request of, or under the direction or supervision of NERT. Based on my own involvement and/or my inquiry of the person or persons who manage the system(s) or those directly responsible for gathering the information or preparing the document, or the immediate supervisor of such person(s), the information submitted and provided herein is, to the best of my knowledge and belief, true, accurate, and complete in all material respects.

Office of the Nevada Environmental Response Trust

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Not Individually, but Solely
as President of the Trustee

Signature:

Jay A Steinberg, President

Name:

Jay A. Steinberg, not individually, but solely in his representative capacity as President of the Nevada Environmental Response Trust Trustee

Title:

Solely as President and not individually

Company:

Le Petomane XXVII, Inc., not individually, but solely in its representative capacity as the Nevada Environmental Response Trust Trustee

Date:


12/19/23

Refined Screening-Level Ecological Risk Assessment for Operable Unit 2, Revision 2

**Nevada Environmental Response Trust Site
(Former Tronox LLC Site)
Henderson, Nevada**

Responsible Certified Environmental Manager (CEM) for this project

I hereby certify that I am responsible for the services described in this document and for the preparation of this document. The services described in this document have been provided in a manner consistent with the current standards of the profession and, to the best of my knowledge, comply with all applicable federal, state and local statutes, regulations and ordinances.



Kimberly Kuwabara, MS

December 20, 2023

Date

Certified Environmental Manager
Ramboll Americas Engineering Solutions, Inc.
CEM Certificate Number: 2353
CEM Expiration Date: March 20, 2025

The following individuals provided input to this document:

Scott Hayter, PE PG
Kimberly Kuwabara, MS
Elizabeth Miesner, MS
Kun Zhao
Shuo Yu, PhD
Mia Sosa
Linda Martello, PhD

Jonathan Hunt, PhD
Gregory S. Kinsall, RG
Mary Sorensen, CSE
Carla Beals, CE
Katrina Leigh
John Crowther

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
Nevada Environmental Response Trust Site
Henderson, Nevada

Date	December 20, 2023
Prepared for	Nevada Environmental Response Trust
Prepared By	Ramboll Americas Engineering Solutions, Inc.
Description	Refined Screening-Level Ecological Risk Assessment for Operable Unit 2, Revision 2
Project No	1690029369-009

Ramboll
2200 Powell Street
Suite 700
Emeryville, CA 94608
USA

T +1 510 655 7400
<https://ramboll.com>



CONTENTS

Executive Summary	1
OU-2 Refined SLERA Approach	2
Initial Screening of Maximum Constituent Concentrations and Maximum Screening Results	2
OU-2 Refined SLERA Ecological Risk Characterization Approach and Results	5
OU-2 Refined SLERA Conclusions	6
1. Introduction	1-1
1.1 Overview of OU-2	1-2
1.2 Refined SLERA Objectives and Approach	1-3
1.3 OU-2 Refined SLERA Report Organization	1-5
2. Step 1: Screening-Level Problem Formulation And Ecological Effects Characterization	2-1
2.1 Screening-Level Problem Formulation	2-1
2.1.1 NERT Site History	2-1
2.1.2 Environmental Setting	2-3
2.1.3 Wildlife in the Vicinity of OU-2	2-6
2.1.4 Ecological Exposure Media in the OU-2 Refined SLERA Area	2-6
2.1.5 Preliminary Constituents of Potential Ecological Concern	2-7
2.1.6 Description of Potentially Exposed Receptors	2-14
2.1.7 Identification of Potentially Complete Exposure Pathways	2-15
2.1.8 Identification of Generic Assessment and Measurement Endpoints	2-16
2.2 Screening-Level Ecological Effects Evaluation	2-18
3. Step 2: Screening-Level Exposure Assessment and Risk Calculations	3-1
3.1 Identification of Screening-Level Exposure Estimates	3-1
3.2 Screening-Level Risk Calculations	3-1
3.3 Screening-Level Risk Results	3-3
3.3.1 Spatial Plots for Constituents with Maximum Soil Concentrations That Exceed Conservative ESVs	3-5
3.4 SMDP for the OU-2 Refined SLERA	3-8
4. Step 3a: Refined Screening	4-1
4.1 Refined Exposure Point Concentrations	4-2
4.2 Chemicals Retained for Further Evaluation	4-2
4.3 Assessment Endpoints Considered for the Screening Refinement	4-4
4.4 Measurement Endpoints Used to Refine COPECs	4-4
4.5 Risk Characterization to Plants and Soil Invertebrates via Direct Contact Pathways	4-5
4.5.1 Refined Risk Calculations for Plants and Soil Invertebrates via Direct Contact Pathways	4-6
4.5.2 Refined Risk Results for Plants via Direct Contact Pathways	4-6
4.5.3 Refined Risk Results for Invertebrates via Direct Contact Pathways	4-7

4.6	Risk Characterization for Birds, Mammals, and Reptiles via Food Web Pathways	4-10
4.6.1	Wildlife Receptors of Interest	4-10
4.6.2	Exposure Assessment for Food Web Pathways	4-11
4.6.3	Effects Assessment for Food Web Pathways	4-19
4.6.4	Refined Risk Calculations for Food Web Pathways	4-22
4.6.5	Risk Characterization for the Food Web Pathways	4-24
4.7	Characterization of Uncertainties	4-27
4.7.1	Detected Chemicals Lacking ESVs	4-28
4.7.2	Detected Chemicals Lacking Species-Specific ESVs	4-31
4.7.3	Evaluation of Chemicals with Low Detection Frequencies	4-32
4.7.4	Uncertainties in the Background Evaluation	4-32
4.7.5	Uncertainties in the Evaluation of DDT and Metabolites	4-35
4.7.6	Evaluation of Detection Limit Uncertainties	4-35
4.7.7	Uncertainties in the Evaluation of Risk to Reptiles	4-37
4.7.8	Uncertainty Assessment Conclusions	4-39
5.	OU-2 Refined SLERA Conclusions	5-1
5.1	Results for the Assessment of the Plant and Soil Invertebrate Community	5-2
5.2	Results for the Assessment of the Bird, Mammal and Reptile Populations	5-2
5.3	OU-2 Refined SLERA Conclusions	5-3
6.	References	6-1

TABLES

Table 2-1	Threatened and Endangered Species for Clark County, Nevada
Table 2-2	Chemical Classes Analyzed in Soil in the OU-2 Refined SLERA Area
Table 2-3	List of Chemicals for which Names and/or CASRN Numbers were Standardized for Use in the ERA Process
Table 2-4a	Surface Soil Ecological Screening Values
Table 2-4b	Surface Soil Ecological Screening Values for Radionuclide Compounds
Table 3-1	Screening-Level Evaluation of Chemicals: OU-2
Table 3-2	Summary of Constituents Retained for Further Analysis: OU-2
Table 4-1	Refined Screening-Level Evaluation of Chemicals Using UCLs: OU-2
Table 4-2	Summary of Constituents to be Carried forward into the Food Web Model and/or Direct Contact Screening: OU-2
Table 4-3	Summary of OU-2 Refined SLERA Exposure Point Concentrations
Table 4-4	Ecological Screening Values for the Protection of Plants and Invertebrates
Table 4-5	Potential Risks to Terrestrial Plants from Soil: OU-2
Table 4-6	Potential Risks to Terrestrial Invertebrates from Soil: OU-2
Table 4-7a	Summary of Wildlife Food Web Input Variables and Receptor Parameters
Table 4-7b	Toxicity Reference Values for Mammals and Birds
Table 4-8	Terrestrial Wildlife Food Web Model Maximum Hazard Quotient Summaries: OU-2
Table 4-9	Terrestrial Wildlife Food Web Model UCL Hazard Quotient Summaries using NOAEL and LOAEL TRVs: OU-2
Table 4-10	Terrestrial Wildlife Food Web Model UCL Hazard Quotient Summaries using LOAEL TRVs: OU-2
Table 4-11	Effects of Uncertainty in Ecological Risk Assessment
Table 4-12	Uncertainty Analysis for Constituents Detected but Lacking ESVs: OU-2

FIGURES

Figure ES-1	OU-2 Refined SLERA Area and NERT Operable Units
Figure 1-1	NERT RI Study Area Location Map
Figure 1-2	OU-2 Refined SLERA Area and NERT Operable Units
Figure 1-3	Major Land Ownership in the NERT RI Study Area
Figure 1-4	USEPA Eight-Step Ecological Risk Assessment Process and Overlap with NDEP SLERA Process
Figure 1-5	Ecological Risk Assessment Process Steps 1-3a Used in the OU-2 Refined SLERA
Figure 2-1	Clark County Ecosystem Distribution Map

Figure 2-2	Perchlorate Groundwater Plume
Figure 2-3	Soil Remediation Areas in Parcels A and B
Figure 2-4	Kerr McGee (1999) and ENSR (2007) Surface Soil Sample Locations in the OU-2 Refined SLERA Area
Figure 2-5	BEC 2007 Soil Sample Locations – Parcel A
Figure 2-6	BEC 2007 Soil Sample Locations – Parcel B
Figure 2-7	Current and Future Land Use for Parcel A Compared to OU-2 Sample Locations
Figure 2-8	Current and Future Land Use for Parcel B Compared to OU-2 Sample Locations
Figure 2-9	Ecological Conceptual Site Model for the OU-2 Refined SLERA Area
Figure 2-10	Desert Food Web
Figure 3-1a	Spatial Surface Soil Concentration Plot for Perchlorate Using Conservative ESVs
Figure 3-1b	Perchlorate Concentrations per Location in the OU-2 Refined SLERA Area
Figure 3-2a	Spatial Surface Soil Concentration Plot beta-BHC Using Conservative ESVs
Figure 3-2b	Beta-BHC Concentrations per Location in the OU-2 Refined SLERA Area
Figure 3-3	Spatial Surface Soil Concentration Plot for Endrin Aldehyde Using Conservative ESVs
Figure 3-4	Spatial Surface Soil Concentration Plot for Calculated DDx (ND=0.5DL) Using Conservative ESVs
Figure 3-5	Spatial Surface Soil Concentration Plot for Calculated D/F Mammal TEQ (ND=0.5DL) Using Conservative ESVs
Figure 3-6	Spatial Surface Soil Concentration Plot for Calculated D/F Avian TEQ (ND=0.5DL) Using Conservative ESVs
Figure 3-7	Spatial Surface Soil Concentration Plot for Bis(2-Ethylhexyl)phthalate Using Conservative ESVs
Figure 3-8	Spatial Surface Soil Concentration Plot for Di-n-butylphthalate Using Conservative ESVs
Figure 3-9	Spatial Surface Soil Concentration Plot for Acetone Using Conservative ESVs
Figure 3-10	Spatial Surface Soil Concentration Plot for Lead Using Conservative ESVs
Figure 3-11	Spatial Surface Soil Concentration Plot for Bromine Using Conservative ESVs
Figure 3-12	Spatial Surface Soil Concentration Plot for Cadmium Aldehyde Using Conservative ESVs
Figure 3-13	Spatial Surface Soil Concentration Plot for Oil Range Organics Using Conservative ESVs

APPENDICES

- Appendix A USEPA Ecological Site Visit Checklist for OU-2
- Appendix B April 2018 and June 2022 Site Reconnaissance Photo Log for OU-2
 - B-1 Eastside Sub-Area Photo Log
 - B-2 NERT Off-Site Study Area Photo Log
- Appendix C Analytical Data Used in the OU-2 Refined SLERA
 - C-1 ENSR and Kerr-McGee Shallow Soil Data used in the OU-2 Refined SLERA
 - C-2 BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA
 - C-3a OU-2 Dioxin/Furan Toxic Equivalency Quotient Calculations
 - C-3b OU-2 PAH Calculations
 - C-3c OU-2 DDx Calculations
- Appendix D Background Data
 - D-1 Background Data Used for the OU-2 Refined SLERA
 - D-2 Background Statistical Evaluation
- Appendix E Summary of 95%^s for Constituents Retained for Refined Screening
 - E-1 Summary of 95% UCLs for Constituents Retained for Refined Screening
- Appendix F Exposure Parameter Documentation for Receptors
 - F-1 Food Web Uptake Approaches for Plants, Invertebrates, and Prey Mammals
 - F-2 Exposure Parameters for Birds and Mammals Included in the OU-2 Refined SLERA
- Appendix G Total Daily Dose Documentation for the OU-2 Refined SLERA Food Web Model
- Appendix H Uncertainty Analysis
 - H-1 Evaluation of Chemicals Detected Lacking ESVs
 - H-2 Evaluation of Sample Quantitation Limits for Chemicals not Detected with ESVs
 - H-3 Summary of Chemicals Not Detected Lacking ESVs
 - H-4 Uncertainties Associated with Dioxin and Furan Bioaccumulation Factors for Soil Invertebrates
 - H-5 Uncertainties Associated with Using ECOSAR For Soil Criteria

ACRONYMS AND ABBREVIATIONS

2,4-DB	4-(2,4-dichlorophenoxy)butyric acid
AF	absorption factor
AhR	aryl hydrocarbon receptor
AMPAC	American Pacific Corporation
AP&CC	American Potash and Chemical Company
ATSDR	Agency for Toxic Substances and Disease Registry
AUF	area use factor
BAF	bioaccumulation factor
BCA	bias-corrected accelerated
BCF	bioconcentration factor
BEC	Basic Environmental Company
BERA	Baseline ecological risk assessment
Beta-BHC	Beta-hexachlorocyclohexane
bgs	below ground surface
BMI	Black Mountain Industrial
box plot	box-and-whisker plots
BRC	Basic Remediation Company
BW	Body weight
C _{FOOD}	concentration in food
C _{SOIL}	concentration in soil
C _W	concentration in pore water
C _{WATER}	concentration in water
C _{WORM}	concentration in worm
CEM	certified environmental manager
COPEC	constituent of potential ecological concern
CSM	conceptual site model
d ⁻¹	per day
DDD	dichlorodiphenyldichloroethane
DDE	dichlorodiphenyldichloroethylene
DDT	dichlorodiphenyltrichloroethane
DDx	sum of combined DDT and isomer exposures

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
Nevada Environmental Response Trust Site
Henderson, Nevada

dw	dry weight
ECHA	European Chemicals Agency
Eco-SSL	Ecological Soil Screening Level
ECOSAR	ecological structure activity relationship
EMD	EMD Acquisition LLC
ENSR	ENSR International Corporation
EPC	exposure point concentration
ERA	ecological risk assessment
ESV	ecological screening value
f_{oc}	fraction organic carbon
ft	feet
GWETS	groundwater extraction and treatment system
HRA	Human Health Risk Assessment
HQ	hazard quotient
IR_{FOOD}	ingestion rate of food
IR_{SOIL}	ingestion rate of soil
IR_{WATER}	ingestion rate of water
K_d	soil to water partitioning coefficient
Kerr-McGee	Kerr-McGee Chemical Corporation
kg	kilogram
kg adult body wt^{-1}	per kg adult body weight
kg feed (ww) $^{-1}$	per kilogram feed as wet weight
K_{oc}	soil organic carbon to water partitioning coefficient
K_{ow}	octanol-water partitioning coefficient
K_{ww}	biota to soil water partitioning coefficient
L	liter
LANL	Los Alamos National Laboratory
LC50	lethal concentration for 50% of test population
LD50	lethal dose for 50% of test population
LOAEL	lowest observed adverse effect level
mg	milligram
mg/kg	milligrams per kilogram

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
 Nevada Environmental Response Trust Site
 Henderson, Nevada

mg/L	milligrams per liter
MCPA	2-methyl-4-chlorophenoxy acetic acid
N	nitrate
NDEP	Nevada Division of Environmental Protection
NERT	Nevada Environmental Response Trust
NFA	no further action
ng/kg	nanograms per kilogram
NOAA	National Oceanic and Atmospheric Administration
NOAEL	no observed adverse effect level
Northgate	Northgate Environmental Management, Inc.
ORNL	Oak Ridge National Laboratory
ORO	oil range organics
OU	operable unit
OU-1	Operable Unit 1
OU-2	Operable Unit 2
OU-3	Operable Unit 3
P _{FOOD}	proportion of food item in diet
PAH	polycyclic aromatic hydrocarbon
PCB	polychlorinated biphenyl
PCOPEC	preliminary constituent of potential ecological concern
PeCDF	2,3,4,7,8-pentachlorodibenzo-p-furan
PEPCON	Pacific Engineering and Production Company of Nevada
PNEC	Predicted No Effect Concentration
QSAR	Quantitative Structure Activity Relationship
Ramboll	Ramboll US Corporation (prior to Oct 1, 2020); Ramboll US Consulting, Inc. (October 1, 2020 to August 31, 2023); Ramboll Americas Engineering Solutions, Inc. (after September 1, 2023)
Ramboll Environ	Ramboll Environ US Corporation
RI	remedial investigation
RI/FS	remedial investigation/feasibility study
RSV	refined screening value
SAR	structure-activity relationship
Site	Nevada Environmental Response Trust (NERT) Site

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
Nevada Environmental Response Trust Site
Henderson, Nevada

SLERA	screening-level ecological risk assessment
SMDP	scientific management decision point
SOP	Standard Operating Procedure
SQL	sample quantitation limit
SQuiRT	NOAA Screening Quick Reference Tables
SVOC	semi-volatile organic compound
TCDD	2,3,7,8-tetrachlorodibenzo-p-dioxin
TCDF	2,3,7,8-tetrachlorodibenzo-p-furan
TDD	total daily dose
TEF	toxic equivalent factor
TEQ	toxic equivalency quotient
TIMET	Titanium Metals Corporation of America
TPH	total petroleum hydrocarbons
Tronox	Tronox LLC
TRV	toxicity reference value
Trust	Nevada Environmental Response Trust
UCL	upper confidence limit of the mean
UMCF	Upper Muddy Creek Formation
USEPA	United States Environmental Protection Agency
USFWS	United States Fish and Wildlife Service
VOC	volatile organic compound
Wash	Las Vegas Wash
WBZ	water-bearing zone
WECCO	Western Electrochemical Company
WHO	World Health Organization
wk ⁻¹	per week
ww	wet weight
xMCF	Transitional Muddy Creek Formation

EXECUTIVE SUMMARY

This report presents the Refined Screening-Level Ecological Risk Assessment (OU-2 Refined SLERA) for Operable Unit 2 (OU-2) within the Nevada Environmental Response Trust (NERT, or the Trust) Remedial Investigation (RI) Study Area in Henderson, Nevada. This OU-2 Refined SLERA is part of the Trust's Remedial Investigation/Feasibility Study (RI/FS) for OU-2. This Refined SLERA is provided to evaluate whether constituents from the NERT Site (OU-1) in Henderson, NV, (the "Site") pose a potential risk to ecological receptors in OU-2, which is adjacent to and downgradient of the Site.

Consistent with the SLERA Work Plan for OU-2, Revision 1, dated September 28, 2018 (Ramboll 2018), and approved by the Nevada Division of Environmental Protection (NDEP) on October 30, 2018 (NDEP 2018) (Work Plan), the evaluation presented herein is limited to the NERT Off-Site Study Area component of OU-2 located west of Pabco Road and herein referred to as the "OU-2 Refined SLERA Area" (Figure ES-1). As presented in the RI Report for OU-1 and OU-2 (Ramboll 2023¹), the conceptual site model (CSM) developed for the NERT RI Study Area indicates that contaminants in OU-1 migrated into OU-2 primarily through groundwater. Since groundwater is currently found between 8 to 40 feet (ft) below grade, there is not a complete pathway for ecological receptors to be exposed. However, prior to the installation of NERT's groundwater extraction and treatment system (GWETS), groundwater was present at shallower depths. Given that the potential for contaminants in groundwater to impact shallow soil is very limited, the NDEP-approved Work Plan specified evaluating risk to ecological receptors using existing soil data within OU-2. The OU-2 Refined SLERA Area, approximately 662 acres, is bordered to the south by Warm Springs Road, to the east by Pabco Road, to the north by a line just north of Galleria Drive, and to the west by the western border of the NERT RI Study Area. This area is used primarily for residential housing, with commercial and light industrial operations adjacent to major roadways. As such, much of the OU-2 Refined SLERA Area is developed and offers limited available ecological habitat. Prior investigations of the southern-most portion of the NERT Off-Site Study Area within OU-2 is referred to as Parcels A and B. In 2013, NDEP issued a no further action (NFA) determination for Parcels A and B, which included an Environmental Covenant limiting future use of the property to commercial or industrial purposes (NDEP 2013d). However, due to the proximity of this property to OU-1 it is appropriate to use data from this property in the OU-2 Refined SLERA.

Consistent with the NDEP-approved Work Plan (Ramboll 2018), this OU-2 Refined SLERA report does not include the Eastside Sub-Area and covers only the area discussed in Section 1. The Eastside Sub-Area component of OU-2 located east of Pabco Road, approximately 1,980 acres, is not included in this OU-2 Refined SLERA because surface soils have been remediated and NFA determinations were issued by NDEP between 2011 through 2015 (NDEP 2011a, 2011b, 2013a, 2013b, 2013c, 2013d, 2013e; 2015a, 2015b, 2015d, 2015e, and 2015f). Contact with surface soil is the primary concern for ecological receptors within the Eastside Sub-Area, and since surface soils have been remediated, no additional evaluation, including ecological risk, is warranted for the upper 10 ft of soil within the Eastside Sub-Area.

¹ Revision 1 of the RI Report for OU-1 and OU-2 RI is currently under review.

OU-2 Refined SLERA Approach

The Refined SLERA for OU-2 was conducted consistent with the Work Plan; however, it also includes Step 3a of United States Environmental Protection Agency's (USEPA's) Eight Step Ecological Risk Assessment (ERA) Process (USEPA 1997) to further evaluate risk. Proceeding to the Step 3a refinement was consistent with applicable guidance and allowed a more thorough investigation of the constituents remaining after Steps 1 and 2 were completed. The additional evaluation for the OU-2 Refined SLERA was conducted in the same way as the approach used in the OU-1 Refined SLERA which was approved by NDEP on August 15, 2015 (Ramboll Environ 2015; NDEP 2015f). The SLERA follows procedures outlined by the NDEP ERA guidance and USEPA risk assessment guidance, as listed in Section 1.2. The objective of this OU-2 Refined SLERA was to determine which one of the following is applicable:

- The available data are adequate to conclude that constituents present from historical manufacturing activities do not pose an unacceptable risk to ecological receptors in the OU-2 Refined SLERA Area, and, therefore, there is no need for additional ERA (i.e., adequate information to conclude that the ecological risks are negligible, and no additional investigation of ecological risk is recommended).
- Estimated ecological risks are not negligible, but the information is insufficient to indicate that adverse ecological effects are occurring. This may require a BERA.
- Constituents associated with historical manufacturing activities within OU-1 that may have migrated to OU-2 have the potential to pose unacceptable risks to ecological resources within the OU-2 Refined SLERA Area (i.e., there are sufficient lines of evidence to document potential or actual adverse ecological effects; recommendations may involve further investigation and/or interim action).
- There is not adequate information to make a risk management decision due to high levels of uncertainty or incomplete information, whereupon the ERA process should continue beyond this screening-level evaluation and a plan to collect additional data should be guided by the OU-2 Refined SLERA.

Initial Screening of Maximum Constituent Concentrations and Maximum Screening Results

The initial screening approach provided in Section 3 of this report includes a conservative screening of maximum detected constituent concentrations, as follows:

- Maximum detected constituent concentrations were identified as exposure point concentrations (EPCs) for this OU-2 Refined SLERA.

- Maximum detected concentrations were evaluated for the following chemical groups:
 - Dioxins and furans
 - Polycyclic aromatic hydrocarbons (PAHs)
 - Perchlorate
 - Radium compounds
 - Explosives
 - Semi-volatile organic compounds (SVOCs)
 - Metals
 - Total petroleum hydrocarbons (TPH)
 - Organic halides
 - Volatile organic compounds (VOCs)
 - Organophosphate pesticides
 - Organochlorine pesticides
 - Polychlorinated biphenyls (PCBs)
- Chemical mixtures including dioxins and furans, PAHs and DDX (dichlorodiphenyltrichloroethane [DDT] plus metabolites) were also considered because they can influence ecotoxicity.
- Conservatively protective ecological screening values (ESVs) were identified for use in the screening.

Risk estimates were calculated in this OU-2 Refined SLERA by dividing maximum soil concentrations by the most conservative, constituent-specific soil ESVs. These unitless, constituent-specific ratios are referred to as hazard quotients (HQs).

HQs less than or equal to a value of 1 (to one significant figure) indicate that adverse impacts to wildlife are considered unlikely (USEPA 1997).

An HQ greater than 1 is an indication that further evaluation may be necessary to evaluate the potential for adverse impacts to wildlife.

The results of the initial screening provided in Section 3 of this report indicated:

- Many constituents were either not detected or were detected at concentrations less than the conservative ESVs, and as such, the HQs were less than the threshold value of 1 and were therefore excluded from further consideration because this screening demonstrates that those chemicals are not present in soils in the OU-2 Refined SLERA Area at concentrations that pose an unacceptable risk to plants, soil invertebrates, birds, or mammals.
- Some constituents had HQs that exceeded the threshold value of 1 in the initial screening. For these constituents, representative regional background constituent concentrations² and the frequency that constituents were detected were evaluated. Constituents with concentrations within OU-2 Refined SLERA Area soils that are less

² The regional background values used are those reported in the Basic Remediation Company (BRC) and Titanium Metals Corporation of America (BRC/TIMET) 2007 report. Specifically, as recommended by NDEP guidance (Neptune 2017), the 95 McCullough samples collected as part of the BRC/TIMET background study were used in the background evaluation for the Refined OU-2 SLERA.

than or similar to background concentrations based on statistical analysis (Gilbert Toolbox), in addition to those constituents detected at a low frequency (less than 5% of the samples), were excluded from further consideration.

- Some chemicals that are not detected have sample quantitation limits (SQLs) that exceed ESVs. These chemicals are further discussed in the uncertainty assessment (Section 4.7).³
- A short list of constituents were identified at the end of Section 3 for additional consideration in the risk characterization described in Section 4 of this OU-2 Refined SLERA because:

HQs based on maximum concentrations exceeding the threshold value of 1, concentrations that were greater than background concentrations for metals and radionuclides, and constituents detected at a frequency greater than 5% are retained for further evaluation. HQs calculated using maximum concentrations ranged from 2 to 200 for the following constituents (from highest to lowest HQs):

- Beta-hexachlorocyclohexane (beta-BHC), with a maximum HQ of 200;
- Perchlorate, with a maximum HQ of 200;
- Dioxin/furan bird and mammal toxic equivalency quotients (TEQs), with maximum HQs of 30 and 70, respectively;
- Bis(2-ethylhexyl)phthalate, with a maximum HQ of 50;
- Lead and acetone with maximum HQs of 10;
- Di-n-butylphthalate with a maximum HQ of 5;
- Endrin aldehyde with a maximum HQ of 3; and
- Bromine, oil range organics (ORO), and cadmium with maximum HQs of 2.
- DDX had a maximum HQ of 1, which would typically eliminate this constituent group from further evaluation, but DDX was carried through the risk assessment to illustrate and confirm that DDX, which is highly bioaccumulative, does not pose a risk to wildlife within the OU-2 Refined SLERA Area.

In addition to the short list of constituents with HQs exceeding the threshold value of 1, as described above, there were some constituents that did not have ESVs available from the many sources considered as part of this OU-2 Refined SLERA. Constituents lacking ESVs were considered further in the uncertainty assessment as part of the risk characterization section provided in Section 4 of this OU-2 Refined SLERA report. Those constituents lacking ESVs for OU-2 include:

- General chemistry: bromide, chlorate, chloric acid, chlorine, nitrate, ortho-phosphate, and sulfate;

³ Constituents not detected are not retained for quantitative evaluation in the refined screening Step 3a of this report (Section 4). However, these constituents are discussed as part of the uncertainty assessment in this report (Section 4.7).

- Metals: Sulfur;
- Pesticides: 4-(2,4-dichlorophenoxy) butyric acid (2,4-DB), Dicamba, and 2-Methyl-4-chlorophenoxy acetic acid (MCPA); and
- Total organic halides.

OU-2 Refined SLERA Ecological Risk Characterization Approach and Results

The risk characterization provided in Section 4 of this OU-2 Refined SLERA focused on those constituents and constituent mixtures identified in the initial screening of maximum concentrations in Section 3 of the OU-2 Refined SLERA.

For the evaluation of plants and soil invertebrates:

- HQs for plants and soil invertebrates were calculated using detected maximum and 95% upper confidence limit of the mean (95% UCL) concentrations of constituents detected in the OU-2 Refined SLERA Area soil compared to ESVs that are specifically focused on plants and soil invertebrates.
- As necessary to illustrate exposure and potential impacts (if any), the full data distributions for some constituents were discussed as they related to the plant and soil invertebrate ESVs.

For the evaluation of birds and mammals:

- Food web modeling was performed for bioaccumulative constituents using maximum and central tendency exposure concentrations for four bird species and five mammal species that may live and forage in the OU-2 Refined SLERA Area. The species selected for the food web model represent herbivorous, omnivorous, insectivorous, and carnivorous feeding (i.e., trophic) guilds within the food web. The following specific species were evaluated:
 - Cooper's Hawk
 - Kit Fox
 - Western Burrowing Owl
 - American Robin
 - Desert Shrew
 - Fringed Myotis
 - Raccoon
 - Mourning Dove
 - Great Basin Pocket Mouse
- The food web model was performed using no observed adverse effect level (NOAEL) and lowest observed adverse effect level (LOAEL) toxicity reference values (TRVs) for birds and mammals.
- As necessary to illustrate exposure and potential impacts, if any, the full data distributions for some constituents were discussed as they related to bird and mammal exposures.
- The food web model evaluation also considered conservative, protective assumptions. For example, it was assumed that birds and mammals live and forage only in the OU-2 Refined SLERA Area. In addition, exposure assumptions that reflect

more realistic foraging behaviors were considered for some of the birds and mammals with larger home ranges.

- The uncertainties associated with the OU-2 Refined SLERA were also discussed in Section 4, including a discussion of those chemicals that are lacking ESVs. For example:
 - There are no specific ESVs for reptiles, but the evaluations for plants, soil invertebrates, birds, and mammals inform an understanding of potential risks for reptiles.
 - For constituents lacking ESVs, results are discussed in qualitative terms, such as the magnitude of detected concentrations, the frequency and distribution of detected concentrations, and the likelihood of exposure and bioaccumulative potential for the chemicals lacking ESVs.

OU-2 Refined SLERA Conclusions

The OU-2 Refined SLERA evaluation demonstrated that constituents detected in the OU-2 Refined SLERA Area soils (including constituents not linked to historical activities at the NERT Site based on the screening for OU-1-specific constituents) do not pose unacceptable risks for:

- The plant and soil invertebrate community;
- Birds and mammals that inhabit or forage in OU-2; and
- Reptiles.

While there are uncertainties in all ERAs, the uncertainties identified for this OU-2 Refined SLERA are not significant and do not lead to data gaps or uncertainties that prevent conclusions from being drawn at this time. The uncertainty evaluation for the OU-2 Refined SLERA Area demonstrates that there are no unacceptable ecological risks related to constituents in the OU-2 Refined SLERA Area soils. Therefore, there is no need for further action in the OU-2 Refined SLERA Area on the basis of ecological risk.

1. INTRODUCTION

This Refined Screening-Level Ecological Risk Assessment (OU-2 Refined SLERA) is provided for Operable Unit 2 (OU-2) of the Nevada Environmental Response Trust (NERT or the Trust) Remedial Investigation (RI) Study Area (the “NERT RI Study Area”) in Henderson, Nevada. This OU-2 Refined SLERA is part of the Trust’s Remedial Investigation/Feasibility Study (RI/FS) for OU-2. This OU-2 Refined SLERA is provided to evaluate whether constituents from the NERT Site pose a potential risk to ecological receptors in OU-2, which is adjacent to and downgradient of the NERT Site.

Previously, the “NERT RI Study Area” (Figure 1-1) was divided into four study areas (Figure 1-2). These are the NERT Site Study Area⁴ and the NERT Off-Site Study Area (established in 2012 as the original NERT RI Study Area), the Downgradient Study Area (added in 2015), and the Eastside Study Area (added in 2016 and comprised of the Eastside Sub-Area and the Northeast Sub-Area). More recently, the NERT RI Study Area has been divided into three Operable Units (OUs) for the purposes of investigation and determination of future remedial action (Figure 1-2). Operable Unit 1 (OU-1) consists of the NERT Site, as well as Sale Parcels C, D, and H. The property comprising OU-1 is located within the Black Mountain Industrial (BMI) Complex and has a long, complex ownership and operational history, as discussed in detail in Section 2.1.1. The BMI Complex currently consists of several facilities owned and operated by different companies, as shown in Figure 1-3. OU-2 comprises the southern portion of the NERT Off-Site Study Area and the Eastside Sub-Area. Operable Unit 3 (OU-3) encompasses the Downgradient Study Area, the Northeast Sub-Area, and the northern portion of the NERT Off-Site Study Area.

This Refined SLERA for OU-2 was conducted in accordance with the SLERA Work Plan for OU-2, Revision 1, dated September 28, 2018 (Ramboll 2018), and approved by the Nevada Division of Environmental Protection (NDEP) on October 30, 2018 (NDEP 2018). However, the OU-2 Refined SLERA also includes Step 3a of United States Ecological Protection Agency’s (USEPA’s) Eight Step Ecological Risk Assessment (ERA) Process (USEPA 1997) to further evaluate risk. Proceeding to the Step 3a refinement was consistent with applicable guidance and allowed a more thorough investigation of the constituents remaining after Steps 1 and 2 were completed. The additional evaluation for the OU-2 Refined SLERA was conducted using the approach implemented for the OU-1 Refined SLERA which was approved by NDEP on August 15, 2015 (Ramboll Environ 2015; NDEP 2015f).

This assessment was limited to the NERT Off-Site Study Area component of OU-2 located west of Pabco Road, herein referred to as the “OU-2 Refined SLERA Area”. The OU-2 Refined SLERA Area is approximately 660 acres, bordered to the south by Warm Springs Road, to the east by Pabco Road, to the north by a line just north of Galleria Drive (the boundary between OU-2 and OU-3), and to the west by the western border of the NERT RI Study Area (Figure 1-2). This area is used primarily for residential housing, with commercial and light industrial operations adjacent to major roadways. As such, much of the OU-2 Refined SLERA

⁴ The original “NERT Site Study Area” area was established as part of the initial NERT RI/FS Work Plan in 2012 where it was referred to as simply the “NERT Site.” The NERT Site Study Area is identical to the OU-1 area, includes Sale Parcels C, D, and H, is no longer owned by the Trust, and refers to the property owned by the Trust after February 14, 2011, and prior to May 8, 2020.

Area is developed and offers limited available ecological habitat. As presented in the RI Report for OU-1 and OU-2 (Ramboll 2023), the conceptual site model (CSM) indicates that contaminants in the OU-2 Refined SLERA Area primarily migrated in groundwater from OU-1. Since groundwater in the OU-2 Refined SLERA Area is currently found between 8 to 40 feet below ground surface (ft bgs), there is not a complete pathway for ecological receptors to be exposed. However, groundwater levels were higher from the 1940s to 1970s due to wastewater infiltration into ponds and ditches with the BMI Complex during that period. Given that the potential for contaminants in groundwater to impact shallow soil is very limited, the NDEP-approved Work Plan specified evaluating risk to ecological receptors using existing soil data within OU-2.

The Eastside Sub-Area component of OU-2 located east of Pabco Road, approximately 1,980 acres, is not included in this OU-2 Refined SLERA because surface soils have been remediated and no further action (NFA) determinations were issued by the NDEP between 2011 through 2015 (NDEP 2011a, 2011b, 2013a, 2013b, 2013c, 2013d, 2013e, 2015a, 2015b, 2015d, 2015e, 2015f). Contact with surface soil is the primary concern for ecological receptors within the Eastside Sub-Area, and since surface soils have been remediated, no additional evaluation of ecological risk is warranted within the Eastside Sub-Area.

1.1 Overview of OU-2

OU-2 lies between OU-1 (the NERT Site, as well as former Sale Parcels C, D, and H) and OU-3 and consists of the NERT Off-Site Study Area component of OU-2 located west of Pabco Road and the Eastside Sub-Area component of OU-2 located east of Pabco Road as shown in Figure 1-2. Pabco Road serves as a boundary demarcating differing historical land use within OU-2 and is also used to identify NERT's obligations related to the RI/FS. NERT's obligations in OU-2 are different than in OU-1 in that within the Eastside Sub-Area, located east of Pabco Road, NERT is only responsible for evaluating the nature and extent of perchlorate and chlorate in the environment. As previously indicated, the OU-2 Refined SLERA Area is limited to the NERT Off-Site Study Area component of OU-2 located west of Pabco Road. The evaluation of the OU-2 Refined SLERA Area from an ecological perspective follows numerous investigations conducted to evaluate the nature, extent, and movement of contaminants from OU-1 to downgradient and cross-gradient areas.

The OU-2 Refined SLERA Area, shown in Figure 1-2, is approximately 660 acres and is bordered to the south by Warm Springs Road, to the east by Pabco Road, to the north by a line just north of Galleria Drive, and to the west by the western border of the NERT RI Study Area.

The OU-2 Refined SLERA Area has been the subject of numerous subsurface investigations related to the downgradient migration of contaminants originating from OU-1. This area was mostly vacant in the early 1950s, with scattered structures located north and south of what is now North Boulder Highway. By the early 1980s, much of the OU-2 Refined SLERA Area was developed with a combination of commercial and residential structures and continues to be used primarily for residential housing, known as the Pittman Neighborhood, with commercial and light industrial operations adjacent to major roadways. As such, much of the OU-2 Refined SLERA Area is developed and offers limited available ecological habitat.

NDEP issued an NFA in 2013 for a portion of OU-2 referred to as Parcels A and B⁵ in the southern portion of the NERT Off-Site Study Area (NDEP 2013d).⁶ According to the 2013 NFA, the future use for Parcels A and B is for purposes of commercial or industrial use only. Shallow soil data collected within Parcels A and B as part of the NFA process, as well as soil scraping, is further discussed in Section 2.1.5.1. Parcels A and B were redeveloped for industrial use in 2019-2020 (Figure 1-3).

1.2 Refined SLERA Objectives and Approach

The objective of this OU-2 Refined SLERA is to assess whether constituents released as the result of historical manufacturing activities in OU-1 have the potential to pose risks to ecological resources within the OU-2 Refined SLERA Area. The OU-2 Refined SLERA report was conducted to be consistent with the following NDEP and USEPA ERA guidance documents:

- NDEP guidance: Screening-Level Ecological Risk Assessment Guidelines for the BMI Complex, Henderson, Nevada (NDEP 2006).
- Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments (USEPA 1997).
- Guidelines for Ecological Risk Assessment (USEPA 1998).
- SLERA Protocol for Hazardous Waste Combustion Facilities (USEPA Region 6 1999).
- ECO-Update: Role of Screening-level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments (BERAs) (USEPA 2001).
- USEPA Region 4 ERA Supplemental Guidance (USEPA Region 4 2018).
- Generic Ecological Assessment Endpoints for Ecological Risk Assessment (USEPA 2003).
- Weight of Evidence in Ecological Risk Assessment (USEPA 2016).

This OU-2 Refined SLERA evaluates the potential risks for mammals, birds, plants, and soil invertebrates that may live or forage within OU-2. A tiered approach was used that includes “screening” and “refined” scenarios to evaluate the range of potential risks. The screening steps (Steps 1 – 2 of the USEPA’s Eight Step ERA Process; USEPA 1997) is the first Tier consisting of a conservative analysis designed to examine potential risks in an overly protective fashion. A refined SLERA consists of Steps 1-3a of USEPA’s Eight Step ERA Process. Step 3a allows for the refinement of the highly conservative assumptions used in Steps 1 and 2 using available, and often more realistic, toxicological information and exposure parameters (such as species-specific foraging ranges, migratory patterns, ingestion rates, etc.). While the screening is generally consistent with Steps 1 and 2 of USEPA’s Eight Step ERA Process, NDEP’s SLERA Guidelines for the BMI Complex (NDEP

⁵ The original Parcel B had three sections as depicted in Figure 2-3 (the western, central, and eastern sections). The central and eastern sections were sold by Tronox prior to creation of the Trust. The western portion was transferred to the Trust in 2011 and has also been referred to as just ‘Parcel B’. This Parcel B (formerly the western portion of the original Parcel B) is the property included in the NFA for Parcels A and B.

⁶ An NFA was issued for Parcels A and B in 2013 following a formal human health risk assessment, submittal of other technical data, and a voluntary Environmental Covenant (NDEP 2013d).

2006) allows for several additional tools to reduce the dataset and focus on the chemicals within the OU-2 Refined SLERA Area that are truly contributing to risk. This tiered approach is described in detail in Section 2.1.5 and illustrated in Figures 1-4 and 1-5.

The USEPA process requires scientific management decision points (SMDPs) following certain steps, as shown in Figure 1-5. The SMDPs represent critical steps in the ERA process where NERT and its beneficiaries' input and decision making can occur. If potentially adverse effects are identified, the iterative risk assessment process continues with Steps 3b through 8, or a BERA.

NDEP's SLERA Guidelines for the BMI Complex (NDEP 2006) allows for several additional considerations to focus on the constituents at the Site that are truly contributing to risk, similar to the USEPA's Step 3a process. Therefore, this OU-2 Refined SLERA is generally consistent with Steps 1-3a of the USEPA's Eight Step ERA process as well as NDEP's guidance.

The USEPA ERA process identifies SMDPs following certain steps, as shown in Figure 1-4. The USEPA ERA process was integrated with the NDEP SLERA guidance to illustrate the approach used in this OU-2 Refined SLERA (Figure 1-5). The SMDPs represent critical steps in the ERA process where NERT and its beneficiaries provide input for risk-management decision making.

The objective of this OU-2 Refined SLERA was to determine which one of the following is applicable:

1. Constituents that may have been released during historical manufacturing activities at the Site have the potential to pose risks to ecological resources within the OU-2 Refined SLERA Area and a risk management decision can be made.
2. The available data are adequate to conclude that constituents present from historical manufacturing activities at the Site do not pose an unacceptable risk to ecological receptors in the OU-2 Refined SLERA Area, and, therefore, there is no need for further action on the basis of ecological risk.
3. The available information is not adequate to make a decision, whereupon the ERA process should continue beyond this screening-level evaluation.

The screening scenario, which involves Steps 1 - 2 of the ERA Process, is provided in Sections 3 and 4 of this report and involves the following assumptions:

- The maximum concentrations in the abiotic media (e.g., soil) was used to quantify risk to ecological receptors. Therefore, the receptors of concern were assumed to be exposed to only the maximum concentrations within the OU-2 Refined SLERA Area, rather than the actual range of concentrations.
- Conservative ecological screening values (ESVs) were used. The receptors of concern were assumed to be as sensitive to the constituents as the most sensitive organisms.

- It was assumed that the ecological receptors spend their entire life within the boundaries of the OU-2 Refined SLERA Area where the maximum concentration was detected, even if that area contains no habitat for that particular receptor.

The refined scenario, which involves Step 3a of the ERA Process, is provided in Section 4 of this report and involves the following assumptions:

- The concentrations in the refined scenario considered the 95% upper confidence limit of the mean (95% UCL) and the average concentrations as conservative yet more realistic measurements of how the receptors are actually exposed to Constituents of Potential Ecological Concern (COPECs).
- A range of screening values for abiotic media, as well as toxicity values are used. This considers a broader array of potential effects on the receptors.
- A food web model is used that considers the amount of time a receptor would realistically be within the OU-2 Refined SLERA Area. This incorporates receptor-specific information about how their home ranges may overlap with the OU-2 Refined SLERA Area and whether they migrate out of the area for part of the year.

Consistent with NDEP and USEPA guidance, additional information, such as background concentrations, average exposure assumptions, and food web modeling are provided to focus the risk assessment on those chemicals, if any, that may potentially pose an ecological risk. These analyses are discussed in detail in Sections 3 and 4 of this OU-2 Refined SLERA report.

1.3 OU-2 Refined SLERA Report Organization

The remainder of this OU-2 Refined SLERA is organized as follows:

- Section 2 – Step 1: Screening-Level Problem Formulation and Ecological Effects Characterization
- Section 3 – Step 2: Screening-Level Exposure Assessment and Risk Calculation
- Section 4 – Step 3a: Refined Screening
- Section 5 – OU-2 Refined SLERA Conclusions
- Section 6 – References

2. STEP 1: SCREENING-LEVEL PROBLEM FORMULATION AND ECOLOGICAL EFFECTS CHARACTERIZATION

Step 1 of the SLERA involves the screening-level problem formulation (Section 2.1) and ecological effects evaluation (Section 2.2).

2.1 Screening-Level Problem Formulation

The screening-level problem formulation defines the reasons for conducting this OU-2 Refined SLERA and the methods for analyzing and characterizing risks. Information pertaining to site characterization, potential receptors, sources and effects of stressors, and ecosystem characteristics are integral to the problem formulation. The screening-level problem formulation provides the information used to establish the overall goals, breadth, and focus of a SLERA (USEPA 1997, 1998, and 2001).

The screening-level problem formulation produces two outputs: 1) assessment endpoints that reflect the management and ecosystem attributes that are to be protected; and 2) a CSM that describes the relationships between stressors and the assessment endpoints.

The problem formulation phase includes:

- A description and history of the OU-2 Refined SLERA Area.
- A description of the environmental setting and the characterization of ecological habitats within the OU-2 Refined SLERA Area.
- The identification of potentially exposed ecological receptors.
- The identification of COPECs.
- The identification of complete pathways by which ecological receptors could be exposed to COPECs.
- The identification of assessment and measurement endpoints.
- The development of a CSM.

2.1.1 NERT Site History

The following text summarizes information contained in the RI Report for OU-1 and OU-2 (Ramboll 2023). The NERT Site and surroundings are shown in Figures 1-2 and 1-3. The BMI Complex area was first developed as a magnesium metal manufacturing facility during World War II with ten identical Unit Buildings, six of which (the Unit 1 through 6 Buildings) are within the boundaries of OU-1. The first production operations (for magnesium metal) began on August 31, 1942. Process wastewater generated by industrial operations within the NERT Site and surrounding BMI Complex during this time was initially accumulated in the Trade Effluent Ponds (partially located within OU-1). In the early 1940s, the Trade Effluent Ponds were replaced by a series of unlined ditches leading to infiltration/evaporation ponds, referred to as the Upper and Lower BMI Ponds and located north and east of the current BMI Complex (located within OU-2 and OU-3). The Beta Ditch, an unlined conveyance cutting across the northern portion of OU-1, acted as a migration

pathway for process effluent between the Site and Upper BMI Ponds located within OU-2 from the 1940s until the 1970s.

After World War II, the Basic Magnesium facility was repurposed, leased, and eventually sold to several chemical manufacturers. The portion that includes OU-1 was operated as a perchlorate and chlorate manufacturing facility beginning in 1945, with the later additions of manganese dioxide (1951), elemental boron (1973), and boron trichloride (1973) operations, in addition to several other chemical products. Chemical production operations within OU-1 were historically operated by several different companies. The Western Electrochemical Company (WECCO) leased property from the government starting in 1945 before purchasing the Site in 1952. WECCO merged with the American Potash and Chemical Company (AP&CC) in 1955. Kerr-McGee Chemical Corporation (Kerr-McGee) acquired the Site in 1967 following a merger with AP&CC. More than 900,000 tons of chlorate products and over 340,000 tons of perchlorate products were produced within OU-1 during this operational history. Much of the chlorate and perchlorate manufacturing process was conducted within the Unit 4 and 5 Buildings, as well as an area to the north near the Beta Ditch. Process liquids associated with chlorate and perchlorate production, which also contained hexavalent chromium,⁷ were collected in the basement areas of the Unit 4 and 5 Buildings resulting in subsurface impacts to soil and groundwater via cracks in the concrete basement floor. Contamination of soil and groundwater also occurred via discharge to lined and unlined process water ponds, unlined wastewater conveyance ditches, and infiltration/evaporation ponds.

During the 1970s, the USEPA, the State of Nevada, and Clark County investigated potential environmental impacts from operations conducted within the BMI Complex, including atmospheric emissions, groundwater and surface water discharges, and soil impacts (Ecology and Environmental 1982). From 1971 to 1976, Kerr-McGee modified their manufacturing process and constructed lined surface impoundments to recycle and evaporate industrial wastewater. Use of the Beta Ditch for process wastewater migration ceased in 1976 when companies operating within the BMI Complex were required to implement zero discharge, industrial wastewater management practices.

In 1980, the USEPA requested specific information from the BMI Complex companies regarding their manufacturing processes and their waste management practices. Investigations of hexavalent chromium-impacted groundwater began in late 1983. Identification and cleanup of hexavalent chromium contaminated groundwater was initiated by Kerr-McGee based on a 1986 Consent Order with NDEP. Treatment of hexavalent chromium in groundwater began in mid-1987 and is on-going today.

In 1997, perchlorate, later shown to originate from OU-1 and the former American Pacific Corporation (AMPAC)/Pacific Engineering and Production Company of Nevada (PEPCON) property, was detected in the Las Vegas Wash ("the Wash") and the Colorado River (NDEP 2011b). In 1999 and 2002, temporary groundwater treatment systems for removal of perchlorate were constructed near the Wash and OU-1, respectively. The temporary

⁷ Hexavalent chromium was generated during the production of sodium chlorate and sodium perchlorate between 1945 and 1997 due to the use of sodium dichromate in the production process.

treatment systems were replaced by a biological fluidized bed reactor treatment system located within OU-1, which has operated since 2004 to the present.

Kerr-McGee discontinued production of sodium chlorate and ammonium perchlorate in 1997 and 1998, respectively. In 2005, Tronox LLC (Tronox) took ownership of the facility from Kerr-McGee. In 2009, Tronox filed for Chapter 11 bankruptcy. The Trust took title to the Site on February 14, 2011, as a result of the settlement of Tronox's bankruptcy proceeding. Tronox maintained a lease for a portion of the Site between 2011 and 2018, where it continued its manufacturing operations. EMD Acquisitions LLC (EMD) acquired Tronox's operations in 2018 and continues to produce manganese dioxide, elemental boron, and boron trichloride within a leased portion of the NERT Site.

2.1.2 Environmental Setting

This section describes the regional ecology, climate, geology, and local hydrogeology in and around the OU-2 Refined SLERA Area.

Regional Ecology

The regional ecosystem distribution and the predominant ecosystem types in the vicinity of the NERT RI Study Area are illustrated in Figure 2-1. The predominant ecosystem type in this region of southern Nevada is Mojave Desert scrub (Clark County Department of Comprehensive Planning 2000). The Mojave Desert scrub ecosystem includes creosote-bur sage and Mojave mixed scrub vegetation communities; invasive, transitional grasslands, as well as large tracts of urban development; small areas of barren land; and agricultural development.

OU-1 and OU-2 are located in an arid region with no natural surface water bodies. The only surface water present within OU-2 are man-made ponds associated with residential developments. These man-made ponds are in the Eastside Sub-Area, which are not part of the OU-2 Refined SLERA Area. The USEPA ecological checklist was completed during the OU-2 reconnaissance, conducted by a senior ecologist from Ramboll on April 2 and 3, 2018, and provided in Appendix A. A photographic log of OU-2 and surroundings is provided in Appendix B. The checklist includes the following types of information:

- Historical activities in the OU-2 Refined SLERA Area relevant to potential ecological risk.
- Land use, topography, and urbanization.
- Habitats, vegetation types, and biological communities.
- Surface water features (if any) including lakes, ponds, streams, wetlands, etc. and the potential presence of benthic invertebrates.
- The wildlife community (fish, birds, mammals) present in the vicinity of the OU-2 Refined SLERA Area.
- The presence or absence of ecologically sensitive areas.

Climate

The climate of the Las Vegas Valley is arid with mild winters and dry hot summers. Average annual precipitation as measured in Las Vegas between 1980 and 2016 was 4.14 inches (National Oceanic and Atmospheric Administration [NOAA] 2018). Precipitation generally occurs during two periods, December through March and July through September. Winter storms produce low intensity rainfall over a large area. Summer storms produce high intensity rainfalls over a smaller area for a short duration. These violent summer thunderstorms account for most of the documented floods in the Las Vegas area. Winds frequently blow from the south or northwest at a mean velocity of approximately 9 miles per hour; however, velocities in excess of 50 miles per hour are not atypical when weather fronts move through the area. During these windy events, dust, sand, and soil at the ground surface can become airborne and may travel several miles. Temperatures can rise to 120°F in the summer, and the average relative humidity is approximately 20%. The mean annual evaporation from lake and reservoir surfaces ranges from 60 to 82 inches per year (Shevenell 1996).

Geology

The following subsections provide a summary of the regional geology, local geology, and local hydrogeology. A detailed description of the regional and local geology can be found in the RI Report for OU-1 and OU-2 (Ramboll 2023).

Regional Geology

The OU-2 Refined SLERA Area is found within a topographic and structural basin trending northwest-southeast and extending approximately 55 miles from near Indian Springs on the north to Railroad Pass on the south. The valley in which the OU-2 Refined SLERA Area is located is bounded by the Las Vegas Range, Sheep Range, and Desert Range to the north; by Frenchman and Sunrise Mountains to the east; by the McCullough Range and River Mountains to the south and southeast; and the Spring Mountains to the west. The mountain ranges bounding the east, north, and west sides of the valley consist primarily of Paleozoic and Mesozoic sedimentary rocks (limestones, sandstones, siltstones, and fanglomerates), whereas the mountains on the south and southeast consist primarily of Tertiary volcanic rocks (basalts, rhyolites, andesites, and related rocks) that overlie Precambrian metamorphic and granitic rocks (ENSR International Corporation [ENSR] 2005, 2007; Ramboll Environ 2016).

Local Geology

The local geology and hydrogeology are defined by data collected from more than 2,000 borings and wells that have been installed in the area. The following descriptions are summarized from the RI Report for OU-1 and OU-2 (Ramboll 2023).

Alluvium – The surface of the OU-2 Refined SLERA Area is primarily Quaternary alluvial deposits that slope north toward the Wash. The alluvium consists of a reddish-brown heterogeneous mixture of well-graded sand and gravel with lesser amounts of silt, clay, and caliche. Clasts within the alluvium are primarily composed of volcanic material. Boulders and

cobbles are common. Due to the mode of deposition, no distinct beds or units are continuous over the area.

Muddy Creek Formation – The Tertiary Muddy Creek Formation underlies the surface of the Las Vegas Valley and consists of valley-fill deposits that are coarse-grained near mountain fronts and become progressively finer-grained toward the center of the valley. Within the OU-2 Refined SLERA Area, the Muddy Creek Formation does not outcrop but instead subcrops beneath a veneer of Quaternary alluvium. Locally, the Muddy Creek Formation reaches thicknesses greater than 1,000 ft.

Locally, the Muddy Creek Formation represents deposition in an alluvial apron environment from the Spring Mountains to the west, grading into fluvial, paludal (swamp), playa, and lacustrine environments further out into the valley center. Subsurface investigation in the NERT RI Study Area has been focused on characterization of the alluvium and the Muddy Creek Formation to depths of approximately 300-400 ft. Therefore, the Muddy Creek Formation has been informally termed the Upper Muddy Creek Formation (UMCf) in this area. Since OU-1 is located closer to the mountains, the upper portion of the UMCf fine-grained facies unit tends to have zones of sandy silt/silty fine sand as well as a greater number of thin, discontinuous layers of silty sand than in OU-2, which is farther from the mountains and more toward the interior of the depositional basin.

Local Hydrogeology

OU-1 and OU-2 are located in an arid region with no natural surface water bodies. The only surface water present within OU-2 are man-made ponds associated with residential developments. These man-made ponds are in the Eastside Sub-Area component of OU-2 located east of Pabco Road which are not part of this OU-2 Refined SLERA. While the groundwater alluvial aquifer for the entire NERT RI Study Area is briefly described below, groundwater is not considered in the OU-2 Refined SLERA because wildlife is not exposed to groundwater in the OU-2 Refined SLERA Area.

Within OU-1, groundwater is generally encountered between 30 and 45 ft bgs and tends to be deepest in the southern portion of the NERT Site. Within OU-2, north of Warm Springs Road, groundwater is generally encountered between 20 and 60 ft bgs, currently as shallow as 8 ft bgs in the northwest portion of OU-2 just south of Sunset Road based on groundwater depth measurements collected on February 24, 2021. Within OU-3, groundwater is generally encountered between 5 and 35 ft bgs. The groundwater flow direction within OU-1 is generally north to north-northwest, whereas within OU-2 and OU-3 the direction changes slightly towards the north-northeast.

NDEP has defined three water-bearing zones (WBZs) that are of interest in the BMI Complex, including the Shallow WBZ, Middle WBZ, and the Deep WBZ. The Shallow WBZ is defined by the first occurrence of groundwater in either the Quaternary alluvium, Transitional Muddy Creek Formation (xMcf), or the UMCf where the xMcf is missing, is unconfined to partially confined, and is considered the "water table aquifer." The Middle WBZ extends from approximately 90 to 300 ft bgs. The Deep WBZ is defined as the contiguous WBZ that is generally encountered between 300 to 400 ft bgs (NDEP 2009a).

Environmental investigations within the NERT RI Study Area have historically focused on the Shallow WBZ.

The Shallow WBZ comprises the saturated portions of the alluvium and the uppermost portion of the UMCf to a depth of approximately 90 ft bgs. Within OU-1, the alluvium was once saturated below the northern portion of the NERT Site. However, recent groundwater elevations measured during annual groundwater monitoring events show that, except for a few small areas, the alluvium has become dewatered and first groundwater now occurs within the UMCf.

Perchlorate and other contaminants found in groundwater in this area migrated from the NERT Site through subsurface transport in shallow groundwater (Ramboll 2023) but does not impact the OU-2 Refined SLERA Area, as there are no current groundwater-surface water connections.

2.1.3 Wildlife in the Vicinity of OU-2

Desert shrub habitats, like that in the vicinity of OU-2, support a variety of wildlife species. Typical species include desert tortoise, a variety of lizards and snakes (including the desert iguana and common kingsnake), black-throated sparrow, various pocket mice and kangaroo rats, kit fox, coyote, bobcat, and a wide variety of birds, including quail, roadrunners, crows, doves, hummingbirds, and predatory birds. Burrowing animals include chipmunks, gophers, rabbits, squirrels, kangaroo rat, mice, burrowing owls, and various reptiles including the desert tortoise. A list of threatened and endangered species for Clark County, Nevada is provided in Table 2-1, along with the preferred habitats of listed species.

As indicated in Table 2-1, preferred habitat for the listed species, including the burrowing desert tortoise, is not present within OU-2. According to the Nevada Fish and Wildlife Office, there are no listed mammals in Clark County. The birds listed are riparian species that might be found near the Wash but would not be found in the vicinity of the OU-2 Refined SLERA Area. There have been sightings of the desert tortoise near the Wash but not in the vicinity of OU-1 or OU-2.

2.1.4 Ecological Exposure Media in the OU-2 Refined SLERA Area

In an ERA, ecologically relevant media typically include surface water, sediment, and soil. Groundwater becomes relevant in an ERA only at the groundwater and surface water transition zone (i.e., the interface; USEPA 2008). While impacted groundwater is present within OU-2, as shown in Figure 2-2, there is no groundwater to surface water connection within the OU-2 Refined SLERA Area. No bodies of water are located within the OU-2 Refined SLERA Area, eliminating possible exposure pathways between surface water and/or sediment to ecological receptors. Therefore, soil is the only exposure media evaluated in this OU-2 Refined SLERA.

The portion of the soil column where the majority of biological activity occurs is typically the upper foot of the soil column (USEPA 2015). For this OU-2 Refined SLERA, soil data from 0 to 1 ft bgs was used and was supplemented with additional soil data to provide a more robust surface soil dataset. These include data from 0 to 2.5 ft from ENSR (2007) and Kerr-

McGee (1998) as well as surface soil data from Basic Environmental Company (BEC; BEC 2007a, b).⁸

2.1.5 Preliminary Constituents of Potential Ecological Concern

Preliminary constituents of potential ecological concern (PCOPECs) are defined as any chemical that was used or manufactured on the NERT Site (OU-1) that may have migrated downgradient to the OU-2 Refined SLERA Area. The chemical classes that were analyzed in soil from previous investigations in the OU-2 Refined SLERA Area and were evaluated in the OU-2 Refined SLERA are shown in Table 2-2.

While the screening steps are generally consistent with Steps 1 and 2 of USEPA's Eight Step ERA Process, NDEP's SLERA Guidelines for the BMI Complex (NDEP 2006) allows for several additional tools to reduce the dataset and focus on those substances that contribute the greatest to the overall risk (USEPA 1989). Following NDEP (2006) guidance, in addition to evaluating the maximum concentration against screening criterion and comparison to background concentrations, the following additional procedures were used in the screening step to eliminate constituents from further quantitative evaluation, or "screened out" where appropriate:

- Constituents that are not detected. Elimination of chemicals that are not detected includes an evaluation of detection limits relative to ESVs. PCOPECs that were not detected but with sample quantitation limits (SQLs) that exceed ESVs are retained in the Tier 1 screening evaluation discussed in Section 3 and are also discussed in the uncertainty assessment (Section 4.7).
- Constituents with detection frequencies of 5% or less. Regardless of detection frequency, any chemical with a hazard quotient (HQ) greater than 1 using the maximum concentration and with concentrations greater than background, is retained for further evaluation (Section 3). A spatial evaluation of these chemicals is then conducted to determine if the detected concentrations are indicative of localized release or potential areas of elevated chemical concentrations. This evaluation is provided in the uncertainty assessment (Section 4.7).
- Constituents for which OU-2 Refined SLERA Area soil concentrations are below background concentrations (applicable to metals and radionuclides).
- This process is further explained in the following subsections. PCOPECs not carried forward in the evaluation and the justification for the elimination of a PCOPEC are provided in the screening tables, as described in Section 3.

⁸ Data from BEC Parcels A-B have a start depth of 0 ft, but the end depth of the samples is not defined. These samples are referred to by BEC as "surface soil" samples (BEC 2007a,b).

2.1.5.1 Data Used in the OU-2 Refined SLERA

The data used for this OU-2 Refined SLERA are summarized in Appendix C-1 for ENSR (2007) and Kerr-McGee (1998) data as well as Appendix C-2 for BEC (2007a, b) data; they were approved for use in the Work Plan (Ramboll 2018). The following constituent groups were evaluated in this OU-2 Refined SLERA:

- Dioxins and furans
- Metals
- Polychlorinated biphenyls (PCBs)
- Semi-volatile organic compounds (SVOCs)
- Total petroleum hydrocarbons (TPH)
- Radionuclides
- Explosives
- Pesticides
- Polycyclic aromatic hydrocarbons (PAHs)
- Organic Halides
- Volatile organic compounds (VOCs)

The BEC dataset is the most comprehensive of the three datasets used in the OU-2 Refined SLERA. The data were validated per the NDEP-approved Data Validation Summary Report (BEC 2007a, b). Following surface soil sampling from several areas of Parcels A and B, 3 to 6 inches of soil was removed by surface scraping due to the detection of long amphibole asbestos fibers (BEC 2007a, b). The areas of surface soil that were scraped and removed (Remediated Areas) are illustrated in Figure 2-3. The consequences of this remediation are that the new surface layer within Parcels A and B⁹ have different concentrations of constituents than those that were measured prior to remediation. According to BEC (2007a), it is reasonable to assume that constituent concentrations are now lower for some constituents because of the removal of some soil. However, BEC (2007a) also states that because there are no historical uses within Parcels A and B, it is reasonable to assume that the concentration distribution may not have changed in any important way and that the previous samples are representative of current conditions. In the absence of more recent data, the BEC dataset is used in the OU-2 Refined SLERA with the understanding that (1) surface soils were scraped and therefore concentrations of various constituents in soil are likely lower than when samples were taken, and (2) the parcels have been partially developed and much of the soil is now covered in pavement or buildings. As such, this dataset represents a very conservative evaluation of potential risk to terrestrial receptors and in many areas, there are no longer complete exposure pathways from soil to receptor.

NDEP issued an NFA for Parcels A and B on December 6, 2007 (NDEP 2013d). According to the NFA, Parcels A and B are suitable for purposes of commercial or industrial use only.

⁹ The original Parcel B had three sections as depicted in Figure 2-3 (the western, central, and eastern sections). The central and eastern sections were sold by Tronox prior to creation of the Trust. The western portion was transferred to the Trust in 2011 and has also been referred to as just 'Parcel B'. The original Parcel B, which includes the central and eastern sections, is depicted in Figure 2-3 because surface soil samples that inform the OU-2 Refined SLERA were collected in this area.

Despite the soil removal and NFA issued for Parcels A and B, the BEC dataset was retained for this OU-2 Refined SLERA because the other two datasets (ENSR 2007 and Kerr-McGee 1998) included only five sampling locations and, in the case of the Kerr-McGee data, are over 20 years old. Nonetheless, the uncertainties associated with the OU-2 Refined SLERA dataset are not significant and do not lead to data gaps or uncertainties that prevent conclusions from being drawn.

Data from four soil samples located in the southeastern portion of Parcel B were excluded from the OU-2 Refined SLERA dataset because these locations are under pavement and were under pavement before the RI began. The dataset is collectively referred to as the OU-2 Refined SLERA Area soil dataset, and the locations of the samples are presented in Figure 2-4 (ENSR and Kerr McGee locations), and Figures 2-5, and Figure 2-6 (BEC locations). The sample locations in Parcels A and B can be seen in greater detail in Figures 2-5 and 2-6. Constituents that were not detected in soil are not included in the OU-2 Refined SLERA directly. They are discussed as an uncertainty in this OU-2 Refined SLERA (Section 4.7). As described above, Parcels A and B have changed significantly since the soil samples were taken. Much of the area is developed and some sample locations are now under pavement as illustrated in Figure 2-7 and Figure 2-8.

Data Usability

The primary objective of the data usability evaluation was to identify appropriate data for use in this OU-2 Refined SLERA. OU-2 Refined SLERA Area data were evaluated in accordance with NDEP's Supplemental Guidance for Assessing Data Usability for Environmental Investigations at the BMI Complex and Common Areas in Henderson, Nevada (NDEP 2010), which is based on USEPA's two-part Guidance for Data Usability in Risk Assessment (USEPA 1992a, b).

Data Handling

The chemical names, groupings, and, in some cases, Chemical Abstract Service Registry Numbers were standardized for the screening process of the OU-2 Refined SLERA Area soil dataset. Table 2-3 lists the constituents that were standardized and the basis of the standardization. For samples with primary and field duplicate results, both samples were treated as independent samples, and both were included in the screening process. In order to focus on those substances that potentially contribute the greatest to the overall risk, several procedures were used to eliminate constituents for quantitative evaluation in the screening, consistent with the SLERA Guidelines for the BMI Complex, Henderson, Nevada (NDEP 2006):

- Comparison to Background: Identification of constituents with detected levels which are at or less than background concentrations (where applicable). The procedure for evaluating constituents relative to background conditions is presented in Section 2.1.5.2.
- Detection Frequency: In general, constituents exhibiting a low frequency of detection will not contribute significantly to the risk estimates. USEPA (1989) and NDEP (2006) advocates that constituents with a frequency of detection less than or equal to 5%

may be considered for elimination. As such, any chemical with an HQ that exceeds a value of 1 using maximum soil concentrations and that has a concentration greater than background is retained for further evaluation including a spatial evaluation. Additionally, a separate evaluation is provided for those chemicals with detection frequencies less than or equal to 5% to ensure that these constituents are not an issue for the Site. This evaluation is provided in the uncertainty assessment (Section 4.7).

Chemical Mixtures:

- The dioxin/furan mixtures were considered using the toxicity equivalency quotient (TEQ) approach for birds and mammals, using World Health Organization (WHO) equivalency factors and consistent with USEPA guidance (Van den Berg et al. 2006). The Total TEQ was calculated by multiplying the actual gram weight of each dioxin and dioxin-like compound by its corresponding avian or mammalian toxic equivalent factor (TEF) and then summing the results to reflect potential exposures for mammals in terms of TEQ. The avian and mammalian TEQs used in this OU-2 Refined SLERA, as well as the avian and mammal TEQ sums, are provided in Appendix C Table C-3a.
- PAH mixtures were considered as high molecular weight PAHs, low molecular weight PAHs, and total PAHs. The sum of PAHs is provided in Appendix C Table C-3b.
- Organochlorine pesticides, including 4,4'-dichlorodiphenyltrichloroethane (DDT), the isomers of DDT, 2,2' and 2,4'-dichlorodiphenyldichloroethane (DDD), and 2,2' and 2,4'-dichlorodiphenyldichloroethylene (DDE) are summed to a DDx value for the evaluation of potential risks related to the chemical mixture. Not all locations were analyzed for all isomers. As such, the DDx sums can be comprised of three to five isomers depending on the location. The sum of DDx values and how it is calculated by location is provided in Appendix C Table C-3c. The 4,4'-DDD, 4,4'-DDE, and 4-4'-DDT isomers were analyzed for all samples collected for DDT and metabolite analysis. 2,4'-DDE and 2,4'-DDD were only analyzed in the BEC dataset and were not analyzed in the ENSR 2007 and Kerr-McGee 1998 datasets. 2,4'-DDT was not analyzed at any locations within OU-2. The variability in the DDx isomers analyzed is further discussed in the uncertainty assessment (Section 4.7).

Individual chemicals comprising the dioxin/furan and PAH calculations were not screened individually but rather as part of their respective chemical mixture. As DDx calculations were comprised of three to five isomers, the isomers were screened individually as well as part of their respective DDx chemical mixture. For this OU-2 Refined SLERA, 291 chemicals from 30 locations within OU-2, as shown in Figures 2-4, 2-5, and 2-6, were evaluated.

2.1.5.2 Evaluation of Site Concentrations Relative to Background Conditions

Some constituents (particularly naturally occurring metals) may be present in environmental media that are unrelated to Site releases. These constituents are called background constituents and can fall into two broad categories:

- Constituents that are naturally occurring: metals often present in the mineral within soil and geological formations and may be transported into surrounding soils and water by processes like weathering and dissolution of the underlying soil. Background concentrations for radionuclides are also considered naturally occurring.
- Constituents present due to anthropogenic sources (USEPA 2001): background constituents may come from a variety of anthropogenic sources such as road runoff, atmospheric deposition, washout by rainfall (or precipitation scavenging), and surface flow of constituents from upstream sources unrelated to activities at the Site.

USEPA (1989, 1992a, b) and NDEP (2006) guidance allows for the elimination of constituents from further quantitative evaluation if detected levels are consistent with naturally occurring levels. Typically, COPECs are selected for a risk assessment if they are elevated above naturally occurring levels based on statistical analyses. Generally, this approach is applicable to metals and radionuclides (USEPA 1989).

Consistent with the Work Plan, the Basic Remediation Company / Titanium Metals Corporation (BRC/TIMET 2007) regional background data set was used for this OU-2 Refined SLERA. Specifically, as recommended by NDEP (Neptune 2017) and confirmed by Ramboll (2021), the 95 McCullough samples collected as part of the BRC/TIMET background study were used in the background evaluation for the OU-2 Refined SLERA. The BRC/TIMET regional background data set (BRC/TIMET 2007) is summarized in Appendix D-1 of this OU-2 Refined SLERA report.

NDEP guidance (NDEP 2008b) recommends including field duplicates in a data set when the variance of the duplicates is similar to the variance of the primary samples. As noted in the guidance, field duplicate samples represent a discrete and unique measurement of soil chemical conditions proximal to the primary sample (unlike split samples). For the background evaluation presented in this report, soil samples with primary and field duplicate results were treated as independent samples, consistent with Option 2 in NDEP guidance (NDEP 2008a, b).

The background evaluation was performed using normal and lognormal Q-Q plots, and side-by-side box-and-whisker plots (box plots). These plots are included in Appendix D-2. Normal and lognormal Q-Q plots provide a visual assessment of how closely the data follow a normal or lognormal distribution. Data points that fall roughly on a straight line may be considered to follow a normal or lognormal distribution. Both background and OU-2 Refined SLERA Area soil data are included on these plots such that the Q-Q plots provide a direct visual comparison of the two distributions. The Shapiro-Wilk test was used to evaluate the consistency of each data set more formally with a normal or lognormal distribution.

Box plots provide a visual comparison between OU-2 Refined SLERA Area data and background data. For each data set, the “box” in the box-and-whisker plot encompasses the central 50% of the results (i.e., the results from the 25th to 75th percentiles, or equivalently, between the first quartile and the third quartile). Substantial overlap between the boxes for background and OU-2 Refined SLERA data indicates that the OU-2 Refined SLERA data may not be significantly different from background. The whiskers demarcate one “step” above the 75th percentile and one step below the 25th percentile. One “step” is defined as 1.5 times the interquartile range (the difference between the 75th and 25th percentiles). Data points above and below the whiskers are considered potential outliers from the distribution and are shown on the plots as open circles for non-detected values and as crosses for detected values.

The computer statistical software program R (R Core Team 2019) was used to perform all statistical tests.¹⁰ Specifically, statistical background comparisons were performed using the t-test, Gehan test, Quantile test, and Slippage test. This suite of tests is sometimes referred to as “Gilbert’s Toolbox.” The t-test is a parametric test (i.e., an underlying condition is that the data or log-transformed data are normally distributed). In contrast, the Gehan test, Quantile test, and Slippage test are nonparametric, and thus do not require that the data are normally or lognormally distributed (USEPA 2002; NDEP 2009c). These tests are described below:

- The two-sample t-test tests for equality of the means of OU-2 Refined SLERA Area and background concentrations. An underlying assumption of the test is that concentrations are normally distributed for both data sets.
- The Gehan test is a modification of the Wilcoxon Rank Sum test that evaluates the difference between the sums of the ranks for two populations. This is a nonparametric method for assessing differences in the center of the distributions and is based solely on the relative order (or ranking) of the observations from the two samples. This test has less power than the two-sample t-test when the data are normally distributed, but the assumptions are not as restrictive. The Gehan test uses the Mantel approach for ranking the data, which is equivalent to using the Gehan ranking system. The Gehan ranking system is used to rank non-detects with the detected concentrations (NDEP 2009c).
- The Quantile test evaluates “tail effects” that are not specifically considered in the Wilcoxon Rank Sum test. The Quantile test looks for differences in the right tails (upper end of the distribution), rather than evaluating central tendency. The Quantile test was performed using a defined quantile of 0.80, consistent with the approach used in the Parcels Soil HRA (Northgate Environmental Management, Inc. [Northgate] 2014).
- The Slippage test looks for a shift to the right in the extreme right tail of the background data set as compared with the extreme right tail of the OU-2 Refined SLERA Area data set. This test evaluates whether the number of OU-2 Refined SLERA

¹⁰ Neptune provided Ramboll with a copy of the R codes used for the statistical background evaluation on May 18, 2020.

Area samples with concentrations greater than the maximum background concentration is greater than would be expected statistically if the OU-2 Refined SLERA Area and background distributions were the same.

Consistent with NDEP guidance (NDEP 2009c), non-detect results are set equal to the detection limit for the non-parametric tests, because substitution is not required for the non-parametric tests, which use the Gehan ranking scheme to rank non-detects. For the parametric tests (i.e., t-test), the Gehan ranking scheme cannot be used, and non-detect results are set equal to one half the detection limit.

The background dataset used in the OU-2 Refined SLERA Area is presented in Appendix D-1. Appendix D-2 details the background evaluation for metals, radionuclides, and nutrients as follows:

- Appendix D Table D-2a presents summary statistics for each metal, including the total number of samples, number of detections, percent detections, minimum SQL, maximum SQL, minimum detected value, maximum detected value, median, mean, and standard deviation. Consistent with NDEP guidance (NDEP 2008b), the median, mean, and standard deviation are calculated based on detected concentrations only. The results of the Shapiro-Wilk test are also presented in the table; however, the Shapiro-Wilk normality testing does not influence the overall conclusions of the background evaluation because the 95% UCL, based on the distribution of the mean of the dataset, is relevant for risk assessment purposes only.
- Appendix D Table D-2b includes the calculated probability (p-values) for the four statistical tests and the overall determination as to whether soil concentrations in the OU-2 Refined SLERA Area are greater than background levels (five results are shown in the table because the t-test was performed twice, once on the raw data set and once on the log-transformed data set).
- Table D-2c presents the same information as provided in Table D-2a for metals but for each radionuclide.
- Table D-2d provides the same information as presented for metals in Table D-2b but for radionuclides.
- Table D-2e presents the same information as provided in Table D-2a for metals but for each non-metal inorganic constituent or nutrient.
- Table D-2f provides the same information as presented for metals in Table D-2b but for non-metal inorganic constituents.
- Figures D-2a and 2b present boxplots for metals and radionuclides in background soils and OU-2 Refined SLERA Area soils (upper 2.5 ft).
- Figures D-2c and D-2d present normal and lognormal Q-Q plots for metals and radionuclides in background soils and OU-2 Refined SLERA Area soil (upper 2.5 ft).
- Figures D-2e and D-2f present boxplots and normal and lognormal Q-Q plots for non-metal inorganics in background soils and OU-2 Refined SLERA Area soils (upper 2.5 ft).

A significance level of $\alpha = 0.025$ was used to evaluate the statistical significance of the Gilbert's Toolbox results, consistent with NDEP guidance (NDEP 2009c).

2.1.5.3 Radionuclide-Specific Evaluation

The background (BRC/TIMET) data set includes results for the long-lived radionuclides in the U-238 decay series (U-238, U-234, Th-230, and Ra-226) and in the Th-232 series (Th-232, Ra-228, and Th-228). The BRC/TIMET background data set also includes data for U-235, but not for the U-235 decay chain. NDEP guidance (2009b) notes that most isotopes of the U-235 decay chain are barely discernible from the minimal detectable concentrations. The background evaluation and tests for secular equilibrium are presented in Appendix D-2, as follows:

- Tables D-2g and Table D-2h present the results of the equivalence testing for secular equilibrium of the uranium decay series (U-238 chain) and thorium decay series (Th-232 Chain), respectively.
- Table D-2i presents the correlation matrices for the uranium decay series and the thorium decay series.

The significance level used for the background evaluation of metals ($\alpha = 0.025$) was also used for the background evaluation of radionuclides.

2.1.6 Description of Potentially Exposed Receptors

The identification of the categories of receptors in the OU-2 Refined SLERA Area most likely affected by OU-1 Site activities helps focus the SLERA. A Site reconnaissance in April 2018 and June 2022 by a Ramboll senior ecologist provided information on potential wildlife and habitats present in OU-2. The Clark County, Nevada Species Account Manual (Clark County Department of Comprehensive Planning 2003) provided information on Clark County's Multiple Species Habitat Conservation Plan and summarizes the appearance, occurrence, life histories, and habitat preferences of a wide variety of species within Clark County, Nevada. Information from this document, the Peterson Field Guides (Peterson et al. 2010), and the two reconnaissance visits was used to identify potentially exposed receptors. Based on this information, potentially exposed receptors in the OU-2 Refined SLERA Area include:

- Soil Invertebrates. The terrestrial invertebrate community lives in constant and direct contact with surface soil that may be impacted. Invertebrates have vital functions within the ecosystem, including serving as a prey base for higher trophic level organisms and cycling of nutrients.
- Plants. Plant roots are in constant and direct contact with soil that may be impacted by chemical constituents. Plant communities provide food for herbivores and essential habitat for many animal species.
- Terrestrial-feeding Wildlife. Birds, mammals, and reptiles are exposed to constituents in surface soil primarily through prey ingestion. As higher trophic level species, birds, mammals, and reptiles are susceptible to compounds that bioaccumulate through the food chain. Individual foraging strategies and choices of prey may also promote incidental soil ingestion.

- Microorganisms in soil are not considered in the OU-2 Refined SLERA consistent with NDEP guidance (NDEP 2006). The United States Fish and Wildlife Service (USFWS) and NDEP are the federal and state agencies, respectively, responsible for monitoring and managing at risk and protected species. Species with threatened or endangered listing status in Clark County are provided in Table 2-1. Of the species listed in Table 2-1, aquatic species, such as amphibians, fish, and aquatic-feeding birds would not be present within the OU-2 Refined SLERA Area due to the absence of water resources. There is no record of special status species observations at or in the immediate vicinity of OU-2, and no special status species are expected within the OU-2 Refined SLERA Area. Based on the April 2018 OU-2 Site reconnaissance, there is no critical habitat on or in the immediate vicinity surrounding OU-2.¹¹

2.1.7 Identification of Potentially Complete Exposure Pathways

A complete exposure pathway is one in which constituents can be traced or expected to travel from the source to a receptor (USEPA 1997). A complete exposure pathway has five parts:

1. A source of chemical constituents.
2. An environmental medium and transport mechanism (such as historical runoff that impacted surrounding soils).
3. A point of exposure (such as surface soil).
4. A route of exposure (such as a receptor touching, drinking, or eating contaminated soil).
5. A population of receptors (such as a community of terrestrial invertebrates).

The exposure pathway is considered complete and potentially capable of causing unacceptable risks only when all five parts are present. A CSM provides a description of ecological receptor pathways for contact with COPECs via release mechanisms and exposure to soil and/or associated food items. The ecological CSM for the OU-2 Refined SLERA Area is provided in Figure 2-9 and identifies contaminant sources, release mechanisms, exposure media, exposure routes, and ecological receptors that were evaluated in the OU-2 Refined SLERA, based on the current understanding of environmental conditions in the OU-2 Refined SLERA Area. This information was used as necessary to understand potentially complete ecological exposure pathways from soil for each receptor group in the OU-2 Refined SLERA Area. These included areas where surface soil contamination has previously been addressed and where historical releases from potential source areas were documented or inferred from field investigations. This OU-2 Refined SLERA focuses on the following potentially complete exposure pathways:

- Direct contact of terrestrial invertebrates to COPECs in surface soil.

¹¹ Critical habitat is a term defined and used in the Endangered Species Act. It is a specific geographic area that contains features essential to the conservation of an endangered or threatened species and that may require special management and protection (USFWS 2014).

- Direct contact and root uptake of surface soil COPECs by terrestrial plants.¹²
- Exposure of terrestrial birds, mammals, and reptiles to COPECs through the incidental ingestion of soil and ingestion of terrestrial food items. Although other exposures, such as dermal (i.e., direct contact) or inhalation, may occur, these routes are poorly characterized for most wildlife species. Ingestion is considered the primary route of exposure for wildlife.

Figure 2-10 reflects the potentially complete exposure pathways and wildlife receptors included in the desert food web model for the OU-2 Refined SLERA Area. The receptors shown in Figure 2-10 are representative receptors of a southern Nevada desert food web and captures the major feeding guilds within the desert of southern Nevada. Each of the wildlife receptors included in Figure 2-10 are included in the food web model as discussed in Section 4 of this report. Areas of the OU-2 Refined SLERA Area considered to be inaccessible or highly unlikely to attract wildlife were not considered in the OU-2 Refined SLERA, as there is no complete exposure pathway from source to receptor at these locations (e.g., developed areas). Based on the observations made during the April 2018 and 2022 Site reconnaissance (Appendices A and B), developed areas do not contain a significant number of ecologically attractive features that would entice wildlife to preferentially forage or nest there, as most of these areas are covered by buildings and pavement.

2.1.8 Identification of Generic Assessment and Measurement Endpoints

Ecological risk endpoints define ecological attributes that are to be protected (assessment endpoints) and measurable characteristics of those attributes (measurement endpoints). Assessment endpoints most often relate to attributes of biological populations or communities and focus the risk assessment on particular components of the ecosystem that are potentially at risk (USEPA 1997; 2003). Assessment endpoints describe an entity (e.g., fish-eating birds) and an attribute of that entity (e.g., survival rate). A measurement endpoint is a measurable ecological characteristic and/or response to a stressor that provides a method of quantifying potential effects on the receptors potentially at risk (USEPA 1998).

Because of the complexity of natural systems, it is generally not possible to directly assess the potential impacts to all ecological receptors present within an area. Therefore, receptor species (e.g., American robin) or species groups (e.g., plants) are often selected as surrogates to evaluate potential risks to larger components of the ecological community, or guilds (e.g., invertebrate eating or “invertivorous” birds), represented in the assessment endpoints (e.g., survival and reproduction of bird populations).

Appropriate assessment endpoints for this OU-2 Refined SLERA include those receptors that may be affected by COPECs that have migrated from the Site to the OU-2 Refined SLERA Area, and for which complete exposure pathways exist. Ecological receptors are selected for

¹² The term plants in this OU-2 Refined SLERA report includes all vascular, photosynthetic terrestrial plants consistent with NDEP guidance (NDEP 2006).

their potential exposure, ecological significance, economic importance, societal relevance, and/or cultural significance.

The assessment endpoints used for the OU-2 Refined SLERA are as follows:

- Survival, growth, and reproductive ability of indigenous terrestrial plant communities within the OU-2 Refined SLERA Area.
- Survival, growth, and reproductive ability of terrestrial invertebrate communities within the OU-2 Refined SLERA Area.
- Survival, growth, and reproductive ability of terrestrial bird populations within the OU-2 Refined SLERA Area.
- Survival, growth, and reproductive ability of terrestrial mammal populations within the OU-2 Refined SLERA Area.
- Survival, growth, and reproductive ability of reptile populations within the OU-2¹³ Refined SLERA Area.

As described by Barnthouse et al. (2008), “regulations, policies, directives, and guidance documents frequently discuss the need for ERAs to consider risks to populations, not simply to individual organisms or organism-level attributes. The reason for this [need] is that, from a management perspective, the population-level attributes such as abundance, persistence, age and composition can be more relevant than are the health or persistence of individual organisms.”

The assessment endpoints listed above consider attributes that are tied to population-level (birds, mammals, and reptiles) or community level (plants and soil invertebrates) abundance and persistence, in that they consider survival, growth and reproduction. Decreased survival will result in smaller numbers of individuals, decreasing the population of that receptor. Growth measurements such as reduced body weights can be associated with lower fitness and lower reproductive success, leading to a reduction in the receptor population. Similarly, decreased reproduction can result in smaller numbers of individuals over time, also decreasing the population of that receptor. The focus of this refined SLERA on populations and communities is consistent with USEPA’s Generic Ecological Assessment Endpoints for Ecological Risk Assessment (2016) and the USEPA Ecological Risk Assessment and Management Principles (1999). The analysis for special status species (including federally listed threatened and endangered species) is performed on an individual level, as even a single individual comprises a larger percentage of those populations at risk. There is no critical habitat in the OU-2 Refined SLERA Area (Table 2-1), and no record of special status species being observed at or in the immediate vicinity of the OU-2 Refined SLERA Area.

Conservative ESVs available for a particular chemical are used during the screening process so that ecological receptors are protected. As such, the measure of potential effect (or

¹³ Due to the lack of toxicity data available for reptiles, the evaluation for reptiles is presented qualitatively in the OU-2 Refined SLERA report.

measurement endpoint) is the comparison of soil concentrations against conservative ESVs among soil invertebrate, plant, bird, and mammal studies.

2.2 Screening-Level Ecological Effects Evaluation

The protective constituent-specific ESVs used in this OU-2 Refined SLERA are summarized in Table 2-4a for the non-radiological constituents. ESVs for radiological constituents are identified in Table 2-4b. The ecological receptors that reside in the OU-2 Refined SLERA Area are assumed to be as sensitive to the constituents as the most sensitive organisms used to develop the ESVs. ESVs are available from other scientific literature sources, one or more of which may be relevant to any given site. Further, ESVs may not be available from each source; therefore, consideration of a range of sources provides greater opportunity for identification of ESVs. The ESV hierarchy used in the OU-2 Refined SLERA is consistent with the OU-2 SLERA Work Plan (Ramboll 2018), as follows:

- USEPA Ecological Soil Screening-Levels (Eco-SSLs) (USEPA 2007a, b and c). The Eco-SSLs are based on a variety of studies that consider effects at multiple levels of the food web.
- USEPA (USEPA Region 4 2018). Regional Ecological Risk Assessment Supplemental Guidance (Region 4).
- USEPA (USEPA Region 6 1999). Screening-Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities (EPA530-D-99-001A)-Appendix E, Toxicity Reference Values (TRVs) (Region 6).
- Oak Ridge National Laboratory (ORNL) terrestrial plant and invertebrate (earthworm) screening values (Efroymsen et al. 1997a, 1997b, 1997c). Values for soil microorganisms and microbial processes (Efroymsen et al. 1997c) were used in cases when earthworm-based values are not available. Los Alamos National Laboratory (LANL) EcoRisk Database (Version 4.2) (LANL 2020).

The primary criteria sources listed above (i.e., Eco-SSLs, USEPA Region 4, USEPA Region 6, ORNL, and LANL) may not have ESVs for every chemical that was detected in surface soil in the OU-2 Refined SLERA soil dataset. As such, secondary sources of criteria, such as the following, were also considered:

- The USEPA's ECOTOX database (USEPA 2022).
- ORNL's Risk Assessment Information System database (ORNL 2009).
- Agency for Toxic Substances and Disease Registry's (ATSDR's) toxicological profiles database (ATSDR 2021).
- NOAA Screening Quick Reference Tables (SQuiRT) (NOAA 2008).

Secondary sources can be less rigorous and/or less applicable than primary sources. For example, the secondary values could be derived using fewer toxicity studies representing fewer species than are used to derive the primary values (Suter and Tsao 1996). Nevertheless, they do represent available data that are relevant for a SLERA and for

obscure or rarely detected constituents. Secondary sources present a readily available option for application in the OU-2 Refined SLERA.

The radionuclide contaminants screened in the OU-2 Refined SLERA were evaluated based on a comparison of radionuclide concentrations in soil to TRVs used as ESVs provided by LANL (2020), and a comparison to background concentrations in soil. The pathways of exposure include external exposure from soil and internal exposure from the uptake of radionuclides in food and water, and ingestion of soil. ESVs for radionuclides are derived from models that calculate the internal and external dose (LANL 2020). Background concentrations for radionuclides are also considered as a basis to exclude these constituents in this OU-2 Refined SLERA.

3. STEP 2: SCREENING-LEVEL EXPOSURE ASSESSMENT AND RISK CALCULATIONS

The screening-level exposure assessment (Step 2) is comprised of the calculation of exposure and risk estimates, and the evaluation of uncertainties in the exposure and risk estimates (USEPA 1997, 2001). The screening-level risk calculations are conducted by (1) estimating to what level a plant or animal is exposed to a particular contaminant, and (2) comparing maximum contaminant concentrations to ESVs. The process concludes with a SMDP at which it is determined if:

- Ecological threats are almost, or entirely, absent and therefore no further work is needed;
- The ecological risk assessment should continue to determine whether risk exists; or
- There is the possibility of adverse ecological effects, and a more detailed ecological risk assessment, with more information about the site, is needed.

3.1 Identification of Screening-Level Exposure Estimates

The maximum concentrations detected in surface soil used in the OU-2 Refined SLERA are provided in Table 3-1, including summary statistics, such as the number of samples analyzed, the percent of detections, the minimum, average, and maximum detected concentrations, and the location of the maximum concentrations for each constituent.

3.2 Screening-Level Risk Calculations

Risk estimates were calculated in this OU-2 Refined SLERA by dividing conservative, constituent-specific exposure estimates by conservative, constituent-specific ESVs. These unitless, constituent-specific ratios are referred to as HQs. Of the 291 chemicals evaluated in the screening, 209 chemicals were eliminated from further evaluation because they were not detected. HQs are defined by USEPA as follows:

- An HQ less than or equal to a value of 1 indicates that adverse impacts to wildlife are considered unlikely (USEPA 1997). HQs are rounded to one significant figure (USEPA 2004).
- At the screening level, where conservatively protective assumptions are used, an HQ exceeding a value of 1 indicates that further evaluation may be necessary to understand if that constituent is likely to pose an unacceptable risk to wildlife. Additional considerations in this OU-2 Refined SLERA included comparison of OU-2 Refined SLERA Area soil constituent concentrations to representative regional background constituent concentrations and the frequency that constituents were detected.

The screening used in the OU-2 Refined SLERA involves the following, conservatively protective assumptions:

- The maximum constituent concentrations in soils were used to quantify risk to ecological receptors. Therefore, the receptors of concern were assumed to be

exposed to only the maximum concentrations within the OU-2 Refined SLERA Area rather than the actual range of concentrations.

- Conservatively protective ESVs were used. The ecological receptors that reside within the OU-2 Refined SLERA Area are assumed to be as sensitive to the constituents as the most sensitive organisms used to develop the ESVs.
- It was assumed that ecological receptors spend their entire life within the boundaries of the OU-2 Refined SLERA Area where the maximum concentration was detected, even if that area contains no habitat for ecological receptors and even if ecological receptors wander in and out of the OU-2 Refined SLERA Area boundaries.

Selecting the maximum concentration as the screening-level exposure value is conservative and protective. With the exception of plants and some less-mobile terrestrial invertebrates, it is very unlikely that most organisms would be exposed to the maximum concentration of a chemical for 100% of their life or even 100% of their day. Because wildlife moves throughout their home range, they are more likely to experience a wide range of concentrations throughout their life cycle and even during a single day. However, in keeping with the conservative nature of a refined SLERA, maximum detected chemical concentrations were used in the screening.

The screening for OU-2 was conducted in two steps as follows:

Tier 1 Screening: The Tier 1 screening included an evaluation of all chemical constituents analyzed within OU-2 from the three data sources used in the OU-2 Refined SLERA. The results of the Tier 1 screening are provided in Table 3-1.

Chemicals were eliminated from further screening in the Tier 1 evaluation if:

- The maximum constituent concentrations in soil were less than protective ESVs resulting in HQs less than or equal to 1.
- The chemical was not detected and the SQL at every sampling location was less than the chemical specific ESV.
- The soil constituent concentrations were similar to or lower than the BRC/TIMET Regional Background Dataset (2007) for each area evaluated.

Tables D-2b, D-2d, and D-2f in Appendix D include some p-values that are equal to 1. In a 1-sided test this implies a strong significant difference between background and Site data, where Site data are lower than the background data. There are a few locations within the OU-2 Refined SLERA Study Area where concentrations for some metals are less than the McCullough background on which background comparisons are performed. Because these samples had concentrations below the regional background concentrations, they were eliminated from further evaluation. Possible explanations for the differences include minor geologic differences in the areas being sampled, surface topography, natural spatial variability, sample depth intervals, analytical techniques, and minor surficial differences due to surface water and wind.

- Even within a single geologic unit, it can be difficult to obtain a perfect representation of local background for every existing Site data set or relevant subset of data across this study area due to the inherent variability of alluvial systems. Therefore, not every variance between Site and background data must be due to anthropological influence or analytical issues. These explanations are discussed in greater detail in Section 4.7.4.

A screening using more realistic exposure assumptions, specifically exposure to the 95% UCL concentration rather than the maximum concentration, is conducted in Tier 2 during the refinement (Step 3a Refined Screening, Section 4, e.g., 95% UCL).

3.3 Screening-Level Risk Results

This section summarizes the Tier 1 screening results. The results summarized here are also provided in Table 3-1. Constituents are screened resulting in one of three determinations: retain for screening, exclude from screening, or retained for the uncertainty assessment (Section 4.7).

- Detected chemicals (or chemical mixtures) with HQs greater than 1 using maximum soil concentrations (except for chemicals consistent with background concentrations) were retained for further screening (Section 4).
- Chemicals (or chemical mixtures) with detected concentrations consistent with background concentrations, detected chemicals that had maximum soil HQs less than or equal to one, and non-detected chemicals with SQLs less than their respective ESVs were excluded from further screening.
- Detected chemicals (or chemical mixtures) with no ESVs and non-detected chemicals where the SQL is greater than the ESV were retained for further screening (Section 4.7). Non-detected chemicals with no ESVs are also summarized in the uncertainty assessment (Section 4.7).

A summary of the screening results for the OU-2 Refined SLERA is provided in the table and text below.

Exhibit 3-1. Chemicals Evaluated in Tier 1 and Retained for Tier 2	
# Chemicals Analyzed	290 ¹⁴
# Chemicals Detected	81
# Chemicals Not Detected	209
# Chemicals Retained for Tier 2 Screening	
	47
Detected, No ESV, Inconsistent with Background	12
Maximum HQ >1	12 (a)
Not Detected, SQL > ESV	23
Lowest Detected HQ Above 1 (excluding DDx HQ = 1)	2
Maximum Detected HQ	200
# Chemicals Excluded from Further Screening	
	136
Detected, Consistent with Background	37
Detected, HQ ≤ 1	20
Not Detected, SQL ≤ ESV	79
# Chemicals That Are Uncertainties (Not Detected, No ESV)	
	107

(a) DDx is carried through the risk assessment for thoroughness despite a maximum HQ equal to 1 in the screening due to the highly bioaccumulative nature of this constituent group

DDx sum of combined DDT and isomer exposures
 ESV ecological screening value
 HQ hazard quotient
 SQL sample quantitation limit

The Tier 1 evaluation allows for the elimination of chemicals that are not detected with SQLs below their respective ESVs, have HQs using maximum soil concentrations that are less than or equal to 1 (with the exception of DDx which was carried through for thoroughness due to its highly bioaccumulative nature), or that are consistent with background concentrations.

¹⁴ Mammal and avian TEQ is considered one chemical group: dioxins/furans for the purposes of the counts shown above.

The Tier 1 OU-2 evaluation included 290 chemicals. 81 chemicals were detected, and 209 chemicals were not detected (as shown in Table 3-1).

- 47 chemicals were retained for further screening (Section 4):
 - 12 chemicals were detected and have no ESVs.
 - 11 detected chemicals had maximum soil concentration HQs greater than 1. The lowest HQ retained of these was 2 and the maximum HQ was 200.
 - 1 chemical (DDx) had a HQ of 1 but was retained due the highly bioaccumulative nature of its chemical group.
 - 23 chemicals were not detected, but their SQLs were greater than their ESVs.
- 136 chemicals were excluded from further evaluation:
 - 37 chemicals were detected and were consistent with background concentrations.
 - 20 chemicals had maximum soil concentration HQs less than 1.
 - 79 chemicals were not detected, and the SQLs were less than their ESVs.
- 107 chemicals were not detected, have no ESVs, and were retained for the uncertainty assessment (Section 4.7).
- Radionuclides were not retained for further analysis and are excluded as COPECs from the OU-2 Refined SLERA because the concentrations of radionuclides in the OU-2 Refined SLERA Area soils were consistent with background concentrations.

3.3.1 Spatial Plots for Constituents with Maximum Soil Concentrations That Exceed Conservative ESVs

There are 12 chemicals in the OU-2 Refined SLERA Area with HQs greater than 1 using maximum concentrations and conservative ESVs. Spatial plots are provided for these 12 chemicals and a brief discussion of these chemicals is provided below as they pertain to the ESVs.

- Figure 3-1a: Perchlorate
- Figure 3-1b: Perchlorate Concentrations by Sample Location in the OU-2 SLERA Area
- Figure 3-2a: beta-BHC
- Figure 3-2b: beta-BHC Concentrations by Sample Location in the OU-2 SLERA Area
- Figure 3-3: Endrin aldehyde
- Figure 3-4: Calculated DDx
- Figure 3-5: Mammal Dioxin/Furan TEQ
- Figure 3-6: Bird Dioxin/Furan TEQ
- Figure 3-7: bis(2-Ethylhexyl)phthalate
- Figure 3-8: Di-n-butylphthalate

- Figure 3-9: Acetone
- Figure 3-10: Lead
- Figure 3-11: Bromine
- Figure 3-12: Cadmium
- Figure 3-13: Oil Range Organics

Of these twelve chemicals, perchlorate, beta-BHC, bis(2-ethylhexyl)phthalate, and dioxins/furans, had among the highest screening HQs reported. These four chemicals, and the other eight chemicals with maximum HQs greater than 1, are discussed below.

3.3.1.1 Perchlorate

Spatial plots for perchlorate in surface soils are provided in Figures 3-1a and 3-1b relative to the lowest ESV for perchlorate. The perchlorate HQ using maximum surface soil concentrations (screening HQ) was 200, and that HQ was based on the highest concentration detected at location SA26 (Figure 3-1a provides the screening HQs, Figure 3-1b shows the concentrations detected, and Figures 2-4, 2-5, and 2-6 provide sample locations). SA-26 is located east of Parcel B within a highly developed industrial area that is now surfaced with asphalt or some other impermeable barrier (Figure 2-4). As can be seen in Figure 3-1a and Figure 3-1b, only two locations exceed the conservative ESV by a factor of 100 or more and both locations are in an industrial area. As indicated in Figure 3-1b, perchlorate concentrations consistently exceed the LANL minimum no observed adverse effects level (NOAEL) TRV of 0.12 milligrams per kilogram (mg/kg); however, most of these locations are in industrial areas where wildlife have limited access, if any, as shown in Figure 3-1a. As a conservative measure, perchlorate is retained for further consideration in this OU-2 Refined SLERA.

3.3.1.2 Pesticides

Two pesticides had HQs exceeding 1 in the OU-2 Refined SLERA Area: beta-BHC and endrin aldehyde (Figures 3-2a and 3-3, respectively). Although the calculated DDx sum had a maximum screening HQ of 1 and would typically screen out of further evaluation based on USEPA and NDEP guidance documents (USEPA 1997, NDEP 2006), it was retained for further consideration given its bioaccumulative nature as a conservative measure (Figure 3-4).

- Beta-BHC: Beta-BHC reflects the highest HQs of the pesticides, with HQs of 200 using the maximum exposure point concentration (EPC) at location TSB-BR-03. The USEPA Region 4 ESV for soil invertebrates (0.0003 mg/kg) is based on predicted toxicity from an ecological structure-activity relationship soil model which is a threshold for no adverse effects. Given the low threshold, locations are above this ESV by factors between 10 and 100 (Figure 3-2a). Figure 3-2a provides the screening HQs, and Figure 3-2b shows the concentrations detected.
- Endrin aldehyde: Endrin aldehyde only had one detection (Figure 3-3), which had a maximum screening HQ of 3, at TSB-AR-12. TSB-AR-12 is located in Parcel A in an area that has been remediated since sampling occurred.

- Calculated DDx: Out of 35 samples, only 13 samples were detected, and none of these samples have concentrations that result in HQs greater than 1 (Figure 3-4). The samples where DDx was detected are located in Parcel A and Parcel B in areas that are now developed or remediated (Figure 3-4 and Figure 2-3).
- Each of these three pesticides are considered further in the OU-2 Refined SLERA.

3.3.1.3 Dioxin/Furans

Location-specific dioxin/furan concentrations within the OU-2 Refined SLERA Area are illustrated in Figures 3-5 and 3-6 for mammal and bird TEQs, respectively. Maximum HQs are 70 and 30 for mammal and birds, respectively, at location SA-25, which is located at the southwestern corner of Parcel A. As illustrated in Figures 3-5 and 3-6, Parcel B appears to have consistently higher HQs than Parcel A. Dioxin/furan TEQs are considered further in the OU-2 Refined SLERA.

3.3.1.4 SVOCs

Two VOCs had HQs exceeding 1 in the OU-2 Refined SLERA Area: bis(2-ethylhexyl)phthalate and di-n-butylphthalate (Figures 3-7 and 3-8).

- Bis(2-ethylhexyl)phthalate: Out of 35 samples, only three locations had detected concentrations of this chemical (Table 3-1). The maximum HQ (50) was at location PC-70 (collected in 1999) in the northern portion of OU-2 (Figure 2-4). The other two detections exceeded the conservative ESV by a factor of 10 but are located along the southern boundary of OU-2 (Figure 3-7 and Figure 2-4) in areas that have been developed or remediated.
- Di-n-butylphthalate: Out of 35 samples, there was only one detected concentration of di-n-butylphthalate at location TSB-BR-03 (Table 3-1 and Figure 3-8). This location had a maximum screening HQ of 5 and is located in an area that has been remediated (Figure 2-4).

These SVOCs with concentrations exceeding their conservative ESVs are considered further in the OU-2 Refined SLERA.

3.3.1.5 VOCs

Acetone is the only detected VOC with an HQ above 1 with a maximum screening HQ of 10, located at PC-70 located in the northern portion of OU-2 (Figure 2-4). This sample was collected in 1999 (Figure 2-4). Acetone concentrations for other samples collected in OU-2 are below the conservative ESV of 0.004 mg/kg, as illustrated in Figure 3-9. Acetone is evaluated further in the OU-2 Refined SLERA.

3.3.1.6 Metals and General Chemistry

The spatial plots provided in this section are for those metals or non-metal chemicals with HQs greater than 1 (Figures 3-10, 3-11, and 3-12): lead, cadmium, and bromine.

- Lead: The maximum HQ for lead was 10 at TSB-BR-03, located along the southern boundary of Parcel B (Figure 2-3). As illustrated in Figure 3-10, only 2 locations exceed the conservative ESV by a factor of 10 and are located along the southern

boundary of Parcel B adjacent to the north of a highway in an area that has undergone remediation (Figure 2-3).

- Bromine: The maximum HQ for bromine was 2 at TSB-AR-06 located along the western portion of Parcel A beneath infrastructure in a developed area (Figure 2-3). As illustrated in Figure 3-11, only nine samples from seven locations were detected and only one sample exceeded the USEPA Region 4 ESV of 10 mg/kg based on toxicity to plants. Each of the samples detected are located in Parcel A, which is currently a developed industrial complex (Google; Figure 2-3).
- Cadmium: The maximum HQ for cadmium was 2 at TSB-BJ-02 located in an unpaved area outside the fenced perimeter of an electrical substation along the northern boundary of Parcel B in an area that has undergone remediation (Figure 2-3). As illustrated in Figure 3-12, concentrations of cadmium are only slightly above the conservative ESV of 0.3 mg/kg and appear to be evenly distributed across the OU-2 Refined SLERA Area.

Lead, cadmium, and bromine are retained for further evaluation in Section 4.

3.3.1.7 Petroleum Hydrocarbons

Figure 3-13 provides the spatial plot for ORO. As shown, most locations have ORO concentrations below the detection limit. Only 3 locations have concentrations above the detection limit with, location SA-26 having a maximum HQ of 2. ORO is evaluated further in Section 4.

3.4 SMDP for the OU-2 Refined SLERA

Consistent with USEPA (1997) guidance, the screening provided in Steps 1 and 2 demonstrate that many chemicals do not pose unacceptable risks and do not require further consideration. Each of the constituents listed in Section 3.3.1 are further evaluated in the refined screening provided in Section 4 of this report (i.e., Step 3a of the USEPA Eight-Step ERA Process; Figure 1-4). The spatial plots for these constituents with maximum HQs greater than 1 do not suggest a localized release or specific areas of concern within the OU-2 Refined SLERA Area. Constituents that were detected but lacking ESVs as well as constituents that were detected but have SQLs that exceed ESVs are further discussed in the uncertainty assessment (Section 4.7). The summary of constituents to be carried forward into Step 3a for OU-2 is provided in Table 3-2.

4. STEP 3A: REFINED SCREENING

The screening refinement is designed to refine the list of COPECs identified following the initial screening in Section 3.3 and to more realistically identify the nature and extent of ecological risks in order to support informed environmental management decisions (USEPA 1997). This is in contrast to the screening steps, which are designed to conservatively rule out further evaluation of chemicals and media that clearly do not pose significant ecological risk.

The refined SLERA methodology presented in this section is consistent with the following guidance:

- Ecological Risk Assessment Guidance for Superfund (USEPA 1997).
- Guidelines for Ecological Risk Assessment (USEPA 1998).
- ECO-Update: Role of Screening-Level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments (USEPA 2001).
- NDEP SLERA Guidelines for the BMI Complex, Henderson, Nevada (NDEP 2006).

COPECs identified in the OU-2 Refined SLERA are evaluated further in the OU-2 Refined SLERA problem formulation using refined estimates of exposure and effects. The refinements provide a more realistic understanding of exposures and potential ecological risks to help inform further assessment or management decisions. Risks are recalculated using the refined assumptions in an iterative process that determines the constituents, media, and pathways that are of primary concern within the OU-2 Refined SLERA Area. The refinement of the COPECs identified in the OU-2 Refined SLERA is necessary to help focus the risk assessment on chemicals that may truly contribute to risk. The remainder of this section is organized as follows:

- Section 4.1 provides the refined EPC used in Step 3a.
- Section 4.2 summarizes the chemicals retained for further evaluation.
- Section 4.3 summarizes the assessment endpoints considered in the OU-2 Refined SLERA.
- Section 4.4 identifies the measurement endpoints used to refine COPECs.
- Section 4.5 describes the refinement of COPECs for direct contact pathways.
- Section 4.6 describes the evaluation of food web pathways and the results of the refinements (the risk characterization).
- Section 4.7 provides a characterization of uncertainties in the OU-2 Refined SLERA evaluation.

4.1 Refined Exposure Point Concentrations

The use of maximum concentrations in the screening-level evaluation are not necessarily indicative of true exposures (e.g., receptors are unlikely to be exposed to the highest levels of all COPECs at all times). Therefore, 95% UCL soil concentrations are also considered as a refinement of the EPCs for the evaluation of potential risks to ecological receptors.

The 95% UCLs were calculated for compounds that exceeded conservative ESVs using R Code provided by Neptune¹⁵, with non-detected results included as one-half of the SQL. The higher UCL value generated between the bias-corrected accelerated bootstrap method (BCA UCL) and the Student's t-test method was selected. In instances where the selected UCL was higher than the maximum detected concentration for a chemical, the maximum detected concentration was used as a surrogate in the screening process. The R Code output identifying all 95% UCL calculations is provided in Appendix E. Results from the screening using the 95% UCLs are summarized in Table 4-1.

4.2 Chemicals Retained for Further Evaluation

The chemicals retained from Tier 1 screening were screened again using 95% UCL concentrations instead of maximum concentrations. The results of the Tier 2 screening sorted the chemicals into four groups.

- Detected chemicals where the 95% UCL HQ was less than or equal to 1 were removed from the risk assessment process.
- Detected chemicals where the 95% UCL HQ was greater than 1 were subject to further analysis by either food web evaluation, evaluation of direct toxicity to plants and/or invertebrates (or both), or analysis in the uncertainty assessment.
- Detected chemicals with no ESVs were subject to further analysis by an evaluation of direct toxicity to plants and invertebrates and an analysis in the uncertainty assessment. None of the chemicals with no ESVs are considered bioaccumulative according to USEPA 2000a and 2007a guidance and, therefore, they were not evaluated in the food web model.
- Non-detected chemicals where the max SQL was greater than the ESV were subject to further analysis in the uncertainty assessment (Section 4.7).

The number of chemicals retained or eliminated from further analysis is provided in Exhibit 4-1.

¹⁵ The higher UCL value generated between the bias-corrected accelerated bootstrap method (BCA UCL) and the test method was selected. Neptune provided Ramboll with a copy of the R codes used for the UCL calculation on May 18, 2020.

Exhibit 4-1. Number of Chemicals (or Groups of Chemicals) Retained for Further Evaluation	
# Chemicals Retained from Tier 1 Screening	47
# Chemicals removed from screening because 95% UCL HQ ≤ 1	4
# Chemicals Retained for Further Analysis	43
Reasons for Retention	
Food web, direct contact, or frequency analysis because 95% UCL HQ > 1	8 (a)
Uncertainty assessment (Max SQL HQ > 1)	23
Uncertainty analysis (Detected, No ESV)	12
Highest 95% UCL HQ (among detected chemicals)	40

(a) DDx is carried through the risk assessment for thoroughness despite a UCL HQ of 0.3 in the screening due to the highly bioaccumulative nature of this constituent group

- DDx sum of combined DDT and isomer exposures
- ESV ecological screening value
- HQ hazard quotient
- SQL sample quantitation limit
- UCL upper confidence limit on the mean

Of the 47 chemicals evaluated in the Tier 2 screening evaluation, 43 chemicals were not screened out and therefore advance to Step 3a of USEPA Eight-Step ERA Process.

Constituents with 95% UCL HQs greater than 1 are carried forward into a risk characterization for plants, soil invertebrates, and wildlife where the assumptions responsible for these HQs were re-evaluated. Chemicals that, at this point in the process, lack a reliable and appropriate ESV are also carried forward into Step 3a. Chemicals carried forward for evaluation of direct contact pathways for plants and soil invertebrates and/or the food web model for birds, mammals, and reptiles are provided in Table 4-2. Chemicals that were not detected but where their maximum SQL is greater than their respective ESV are also summarized in Table 4-2 and carried forward and discussed in the uncertainty section (Section 4.7).

The detected constituents listed below do not have ESVs from the hierarchy of available USEPA ESV sources identified in this OU-2 Refined SLERA report. These chemicals are not considered bioaccumulative, so uptake via the wildlife food web is considered unlikely.

These chemicals are discussed further as an uncertainty in Section 4.7 of this report.

- Bromide
- Chlorate
- Chloric acid
- Chlorine
- Nitrate (as N)
- Ortho-Phosphate
- Sulfate
- Sulfur
- 2,4-DB
- Dicamba
- MCPA (2-Methyl-4-chlorophenoxy acetic acid)
- Organic halides

The chemicals and their respective EPCs retained for additional evaluation using a direct contact pathway for plants and soil invertebrates and a food web model for wildlife is presented in Table 4-3. These constituents are discussed further in this section through consideration of potential exposures and risks to plants and soil invertebrates, via uptake to birds, mammals, and reptiles through the food web, or both.

4.3 Assessment Endpoints Considered for the Screening Refinement

The assessment endpoints identified in Section 2.1.8 are those considered in this refined screening. However, whereas the screening uses the most conservative ESV regardless of ecological receptor group to eliminate or retain COPECs, this refinement allows for the evaluation of each receptor group shown below separately in order to focus risk management decision-making on those chemicals, if any, that may truly pose a risk. The assessment endpoints, grouped by receptor considered in the refinement, are listed below.

Ecological Receptor	Assessment Endpoints
Terrestrial plant community	Survival, growth, and function
Terrestrial invertebrate community	
Terrestrial bird populations	Survival, growth, and reproductive ability
Terrestrial mammal populations	
Reptile populations	

4.4 Measurement Endpoints Used to Refine COPECs

The refined screening of COPECs is based on the quantitative measurement endpoints described below.

Potential risks to plants and soil invertebrates exposed to the constituents in OU-2 Refined SLERA Area soils were evaluated. For this evaluation of plants and soil invertebrates:

- The maximum and central tendency exposure concentrations of constituents detected in OU-2 soil were compared to ESVs that are specifically focused on plants and soil invertebrates. For these terrestrial communities, refined ecological benchmarks relevant for these receptor groups were used instead of the generic screening values used in the OU-2 Refined SLERA which may be based on receptors irrelevant to the OU-2 Refined SLERA Area. The receptor specific ESVs and refined screening values (RSVs) are provided in Table 4-4.
- HQs for plants and soil invertebrates are calculated using maximum and central tendency (95% UCL) soil concentrations.
- As necessary to illustrate exposure and potential impacts (if any), the full data distributions for some constituents are discussed as they relate to the plant and soil invertebrate ESVs.
- Potential risks to bird, mammal, and reptile populations exposed to the constituents in OU-2 Refined SLERA Area soils is evaluated as follows:
 - Food web modeling is performed for bioaccumulative constituents using maximum and central tendency exposure concentrations for four bird species and five mammal species that may live and forage in the OU-2 Refined SLERA Area. These species are identified and discussed in Section 4.6. The species selected for the food web model represent herbivorous, omnivorous, insectivorous, and carnivorous feeding (trophic) guilds within the food web (Figure 2-10).
 - The food web model is performed using NOAEL and lowest observable adverse effect level (LOAEL) TRVs for birds and mammals.
 - The food web model evaluation considers conservative, protective assumptions. The food web model results are presented in two ways:
 - Birds and mammals live and forage only in the OU-2 Refined SLERA Area (AUF=1)
 - Species-specific AUFs are applied for birds and mammals with larger home ranges.
 - There are no specific ESVs for reptiles, but the evaluations for plants, soil invertebrates, birds, and mammals inform an understanding of potential risks for reptiles.

4.5 Risk Characterization to Plants and Soil Invertebrates via Direct Contact Pathways

The refinement of COPECs for direct contact pathways is discussed in terms of the following assessment endpoints:

- Terrestrial plant community diversity, structure, and function; and
- Terrestrial invertebrate community diversity, structure, and function.

The constituents in soil that were retained in Section 4.2 and summarized in Table 4-2 were evaluated for this direct contact pathway refinement specific to plants and invertebrates, to the extent that plant and terrestrial invertebrate specific ecological benchmarks were

available for consideration of these receptor groups. The discussion below describes the refined exposure and effects assessment as well as the refined risk characterization for the terrestrial plant and invertebrate community.

Efforts were made to identify ESVs specific to plants and invertebrates. As noted above, there are not ESVs for plants and invertebrates for all constituents detected. For those chemicals without a plant- or invertebrate-specific ESV, the chemical was evaluated qualitatively in the uncertainty section.

For some chemicals like dioxins and furans, numerous studies have documented that invertebrates are not sensitive to dioxins and furans because they lack the aryl hydrocarbon receptor (AhR) upon which toxicity is exerted (Borgman et al. 1990, Hahn et al. 1994, and West et al. 1997). West et al. notes that the ability of invertebrates to accumulate relatively high concentrations of dioxins and furans in the absence of toxic effects may be relevant to the transfer of these chemicals through the food web. Therefore, although the uptake of dioxins and furans through invertebrates is not considered in the invertebrate-specific screening, the uptake of dioxins and furans through invertebrates is considered in the food web evaluation.

4.5.1 Refined Risk Calculations for Plants and Soil Invertebrates via Direct Contact Pathways

The refined screening for direct contact pathways provides the evaluation for the terrestrial plant and invertebrate communities. The refined screening for each of these evaluations was performed for the OU-2 Refined SLERA for the COPECs identified in Table 4-2 as follows:

$$HQ = \frac{\text{Maximum or 95\% UCL, Concentration}}{\text{Refined Plant and Soil Invertebrate Effects Data}}$$

Similar to the screening evaluation, HQs less than or equal to the threshold value of 1 indicate that the constituents do not pose an unacceptable risk. HQs that exceed the threshold value of 1 indicate a potentially unacceptable risk, although closer consideration may be warranted to understand whether this is the case (e.g., the magnitude of the HQ and the spatial distribution of elevated HQs), including the basis of the ecological benchmark and other considerations, such as qualitative observations in areas where samples were collected.

4.5.2 Refined Risk Results for Plants via Direct Contact Pathways

HQs for plants are provided in Table 4-5 for the OU-2 Refined SLERA Area. The results are described below.

- As shown in Table 4-5, 19 COPECs were evaluated for plant-specific risks. Five of the 19 COPECs were eliminated from further evaluation because maximum and/or 95% UCL concentrations of these COPECs were equal to or less than plant specific ESVs. These include perchlorate, lead, beta-BHC, calculated DDx (sum of DDT and metabolites), and di-n-butylphthalate. The remaining 14 chemicals lack plant specific ESVs. These are discussed as an uncertainty in Section 4.7.

- Overall, based on the uncertainty evaluation for those COPECs that lack ESVs, and the HQs for those COPECs with plant ESVs, OU-2 Refined SLERA Area soils do not pose unacceptable risks to plants, including special status plants, if they are present in the OU-2 Refined SLERA Area in the future.

4.5.3 Refined Risk Results for Invertebrates via Direct Contact Pathways

HQs for invertebrates within the OU-2 Refined SLERA Area are provided in Table 4-6. The results are described below.

Chemicals with a HQ greater than 1 (Identified in Table 4-6)			
Potential Risks to Terrestrial Invertebrates from Soil			
Chemical Name	Invertebrate ESV/RSV	95% UCL	MAX
		HQ	HQ
Perchlorate	LANL NOAEL	1	6
	LANL LOAEL	0.1	0.6
beta-BHC	USEPA Region R4 ESV	40	200
	Novais et al. (2010) RSV	0.002	0.01
Calculated DDX	Eco-SSL ESV	0.05	0.2
	Eco-SSL RSV	0.005	0.02
Acetone	USEPA Region R4 ESV	2	10

DDx sum of combined DDT and isomer exposures

Eco-SSL Ecological soil screening level

ESV ecological screening value

HQ Hazard Quotient

LANL Los Alamos National Laboratory

LOAEL lowest observable adverse effect level

MAX maximum

NOAEL no observable adverse effect level

RSV refined screening value

UCL upper confidence level

DDx sum of combined DDT and isomer exposures

Legend:

0.5 HQ < 1

1 HQ = 1

10 1 < HQ ≤ 10

100 10 < HQ ≤ 100

1,000 100 < HQ

- Nineteen COPECs were evaluated for soil invertebrate-specific risks based on the screening results. Seven of the 19 COPECs were eliminated from further evaluation because maximum and/or 95% UCL concentrations of these COPECs were below invertebrate-specific RSVs (Table 4-6). These include perchlorate, lead, beta-BHC, calculated DDX (sum of DDT and metabolites), bis(2-Ethylhexyl)phthalate, and di-n-butylphthalate.

- As stated above, dioxins/furans are not included in the evaluation of soil invertebrates because studies have documented that invertebrates are not sensitive to dioxins and furans because they lack the AhR upon which toxicity is exerted (Borgman et al. 1990, Hahn et al. 1994, West et al. 1997).
- As can be seen in the excerpt of Table 4-6 above, there are two sets of HQs for perchlorate, beta-BHC and DDx.
 - For perchlorate, the ESV is a NOAEL taken from the LANL database for earthworms resulting in a maximum HQ of 6 and a 95% UCL HQ of 1. Using a LOAEL value as an RSV, also from the LANL database, the maximum HQ was 0.6 and the 95% UCL HQ was 0.1 for OU-2. Perchlorate data distributions are provided in Figure 3-1a and 3-1b.
 - Beta-BHC reflects the highest HQs, with HQs of 200 using the maximum EPC and 40 using the 95% UCL EPC. The 95% UCL BHC soil concentration is 0.0112 mg/kg. The USEPA Region 4 ESV for soil invertebrates (0.0003 mg/kg) is not directly based on a study of toxicity for soil invertebrates. Rather, it is based on predicted toxicity from an ecological structure-activity relationship soil model which is a threshold for no adverse effects. USEPA Region 4 (2018) guidance identifies ESVs and RSVs for many constituents but does not provide an RSV for beta-BHC specific to soil invertebrates. Therefore, a literature review was conducted to find toxicity studies other than the conservative ESV reported by USEPA Region 4. A broad search resulted in 1,380 results but virtually all of the papers were prepared from the years 1950 to 1970 when this pesticide was actually in use. As such, the research is dated and may not reflect acceptable laboratory practices. In a review paper prepared by Edwards and Bohlen (1992), the authors reviewed the effects of BHC on earthworms at concentrations of 0.075 to 800 mg/kg. The authors reported low toxicity of BHC to invertebrates (Gunthart 1947; Morrison 1950; Prisznyuk 1950; Polivka 1951; Grigoreva 1952; Richter 1953; Weber 1953; Lipa 1958; Ghilarov and Byzova 1961) except at the highest concentrations. A study by Novais et al. (2010) exposed soil invertebrates (potworm) to BHC over a 42-day exposure period and reported no reproductive impairments at 18 mg/kg and no mortality at 5.6 mg/kg. Using the Novais et al. (2010) study as an RSV for the OU-2 Refined SLERA, the detected concentrations of beta-BHC at OU-2 are well below the soil invertebrate RSV of 5.6 mg/kg, and the RSV 95% UCL HQ is well below 1 as shown in Table 4-6 and illustrated in Figure 3-2a and Figure 3-2b.
 - An ESV of 0.15 mg/kg derived from data in USEPA's "Eco-SSLs for DDT and Metabolites" (USEPA 2007b) was used as the DDT and DDx ESV. Of the 174 papers reviewed by USEPA to derive an Eco-SSL for DDT, 11 records from two papers by Harris (1964 and 1966) were included in USEPA (2007) Table 4.1. According to USEPA, none of the studies were adequate to generate an invertebrate Eco-SSL for DDT but the 11 records included in Table 4-1 had the highest scores of the 174 papers evaluated by USEPA. In the absence of higher quality data, these data were used to estimate the ESV for DDT and DDx. The data provided in Harris (1966) includes LC50s for the common cricket after exposure to DDT in moist soils and dry soils with varying levels of organic matter. The percent organic carbon in OU-2 Study Area soils is very low (<1%).

Therefore, the four records with the lowest percent organic matter from Harris 1996 and one record from Harris 1994 were used to estimate an LC50 for soil invertebrates. The geometric mean of the LC50s in these five studies is 1.5 mg/kg DDT in soil which was used to generate the ESV for DDT and DDx in this refined SLERA. As the LC50s reported in Harris (1964 and 1966) are acute toxicity values, a factor of ten was applied to the 1.5 mg/kg LC50 value to generate an ESV for DDT of 0.15 mg/kg soil as shown below and in Table 4-4 and 4-6.

Only the LC50s generated from exposure of crickets to moist soils were included in USEPA (2007) but soils in the OU-1 and OU-2 Study Areas are very dry. Therefore, as a method of deriving a more realistic screening level (the RSV), the results in Harris (1994 and 1966) from exposure of crickets to DDT in dry soils was used to derive an RSV. Like the derivation of the ESV, the geometric mean of the five data records with the lowest percent organic carbon were used resulting in an estimated LC50 of 15.2 mg/kg soil. Applying a factor of ten to the acute toxicity value of 15.2 mg/kg results in an RSV of 1.5 mg/kg DDT in soil (Table 4-4 and 4-6). This value was used as the RSV for DDx. The data from USEPA (2007) and Harris (1964 and 1966) used to derive the DDx RSV are provided below.

Results from Harris (1966 and 1964) used in USEPA (2007) Eco-SSLs for DDT and Metabolites

Invertebrate Receptor	Soil Type	% Organic Carbon	LC50 Tox Value (Soil Conc. in mg/kg dw)	
			Moist Soil	Dry Soil
Common Cricket	Quartz sand	0	0.08	0.25
	Plainfield sand	0.5	1.75	17.32
	Beverly fine sandy loam	1.4	3.07	47.19
	Brookston silt loam	1.98	4.12	61.88
	Beverly fine sandy loam (a)	1.4	4.3	64.5
Geomean			1.50	15.22

(a) Because the LC50 from Harris 1994 was only calculated using moist soils, a multiplier of 15x, consistent with the results from moist to dry soils in Harris (1966) was applied to the record from Harris 1964.

- Considering RSVs (when available) and ESVs, the only COPEC which may pose a risk to invertebrates in OU-2 is acetone. Acetone has a maximum HQ of 10, and a 95% UCL HQ of 2. The maximum acetone concentration is 0.56 mg/kg and the 95% UCL acetone soil concentration is 0.0831 mg/kg. The location with the maximum concentration (PC-70) was the only location where acetone soil concentrations exceeded the USEPA Region 4 ESV (0.04 mg/kg). This sample was collected in 1999. Acetone is a highly volatile chemical that is used as an inert ingredient, a solvent/cosolvent, in a variety of pesticide products. It is used in the manufacture of other chemicals and in a variety of consumer products. In addition, it is a metabolic

product in living organisms including terrestrial invertebrates (USEPA 2005a). The volatility rate of acetone from soil depends on the soil characteristics (moisture content, soil porosity, organic carbon content, temperature, etc.) with high volatility rates for dry soil (ATSDR 2022), such as is present in the OU-2 Refined SLERA Area. A screening assessment performed by Environment Canada (2014) summarized several toxicity investigations of acetone to soil invertebrates and determined that it had low ecotoxicity. Based on the low UCL HQ of 2, the high volatilization rate of acetone in dry soil, and the predicted low ecotoxicity of acetone, acetone is not considered to pose an unacceptable risk to soil invertebrates.

There are 12 COPECs with no ESVs. These COPECs are evaluated further in the uncertainty section (Section 4.7). However, overall, and based on the uncertainty evaluation for those COPECs that lack ESVs, the results provided in Tables 4-6 demonstrate that OU-2 soils do not pose an unacceptable risk to soil invertebrates when both the ESVs and RSVs are considered.

4.6 Risk Characterization for Birds, Mammals, and Reptiles via Food Web Pathways

Food web pathways were considered for COPECs identified in the OU-2 Refined SLERA Area as being potentially bioaccumulative. Table 4-2 provides a list of COPECs for consideration in the food web model for OU-2, and indicates which chemicals are considered to be bioaccumulative based on USEPA 2000a and 2007a guidance documents. Although DDX had an UCL HQ of less than 1, it was retained in the food web model to confirm that there is no potential risk from DDX due to its highly bioaccumulative nature. Perchlorate, which is not considered bioaccumulative, was also retained for further evaluation in the food web model due to it being a primary chemical of concern from OU-1 historical operations. This section discusses the following elements of the evaluation of food web pathways:

- Wildlife Receptors for Food Web Pathways (Section 4.6.1)
- Exposure Assessment for Food Web Pathways (Section 4.6.2)
- Effects Assessment for the Food Web Pathways (Section 4.6.3)
- Risk Characterization for the Food Web Pathways (Sections 4.6.4 and 4.6.5)

4.6.1 Wildlife Receptors of Interest

Most healthy ecosystems support many individual species representing a variety of feeding guilds. However, it is not feasible to complete risk calculations for all potentially exposed species. Moreover, such an effort would be duplicative because of the similarity of exposure patterns among closely related species and among those with similar feeding guilds. For these reasons, surrogate receptors of interest are selected to represent the different feeding guilds. The following mammal and bird receptors were identified consistent with the receptors selected for the OU-1 Refined SLERA:

Representative Wildlife Species Selected for Evaluation in the OU-2 Refined SLERA	
Carnivore	Cooper’s Hawk
	Kit Fox
	Western Burrowing Owl
Omnivore	Raccoon
Herbivore	Mourning Dove
	Great Basin / Desert Pocket Mouse
Insectivore	American Robin
	Fringed Myotis (Bat)
	Desert Shrew

These species are both known to be susceptible to food web exposures or are representative prey of organisms that are susceptible to food web exposures (USEPA 1993). They reflect a range of trophic levels (e.g., carnivorous mammal as compared to an omnivorous mammal), and thus dietary exposure. Furthermore, dietary and toxicological information is available for these species, making them good candidate species for food web modeling (e.g., USEPA 1993, Sample et al. 1996). As such, the selected species can be used as surrogate species to represent the types of exposures and potential impacts that could occur to other wildlife species within the OU-2 Refined SLERA Area. These animals selected for the food web model are commonly found in southern Nevada. Reptiles are evaluated qualitatively in Section 4.6.5.1

4.6.2 Exposure Assessment for Food Web Pathways

As with plants and invertebrates, the food web evaluation considers two exposure scenarios with EPCs identified in Table 4-3. These include the maximum (worst case) and a central tendency estimate, characterized by the 95% UCL when available (or the maximum when the UCL exceeds the maximum).

- **Worst Case:** This scenario uses maximum media concentrations to give upper-bound estimates of exposures within the OU-2 Refined SLERA Area because wildlife does not remain fixed around a single point in space.
- **Central Tendency Case (95% UCL):** This scenario uses average media concentrations that more realistically estimate the types of exposures that are likely to occur as animals move around the OU-2 Refined SLERA Area and beyond. The 95% UCL is the upper estimate of the average concentration.

4.6.2.1 Total Daily Dose

The exposure assessment yields estimates of total daily dose (TDD) of COPECs for the birds and mammals considered in the food web model via diet and incidental ingestion of soil while foraging or preening/grooming. Incidental ingestion of water was not considered

because there are no natural waterbodies within the OU-2 Refined SLERA Area and soil is the only media examined in the OU-2 Refined SLERA, as described in the OU-2 SLERA Work Plan (Ramboll 2018). TDDs were calculated based on the methodology described by USEPA (1993). The TDD is estimated as a function of an EPC, food ingestion rate, composition of diet, body weight, and area use factor (AUF).

Dietary intakes are calculated for each upper trophic level receptor species using the following equation (USEPA 1993, ORNL 1994):

$$TDD = \frac{([IR_{FOOD} \times C_{FOOD}] + [IR_{SOIL} \times C_{SOIL}] + [IR_{WATER} \times C_{WATER}]) \times AUF \times AF}{BW}$$

Where:

- TDD = Total daily dose (mg COPEC/kg wet weight [ww]-day)
- IR_{FOOD} = Ingestion rate of food (kg/day)
- C_{FOOD} = Concentration of the COPEC in food (mg/kg)
- IR_{SOIL} = Ingestion rate of soil (kg/day)
- C_{SOIL} = Concentration of COPEC in soil (mg/kg)
- IR_{WATER} = Ingestion rate of water (liter [L]/day)
- C_{WATER} = Concentration of COPEC in water (milligrams per liter [mg/L])
- AUF = Area use factor (unitless)
- AF = Absorption factor (unitless)
- BW = Body weight (kg ww)

and:

$$C_{FOOD} = \sum ((C_{FOOD1} + P_{FOOD1}) + (C_{FOOD2} + P_{FOOD2}) + (C_{FOOD i} + P_{FOOD i}))$$

Where:

- C_{FOOD} = Concentration of COPEC in food (mg/kg)
- C_{FOOD1} = C_{MEDIUM} × BAF_{FOOD1} (mg/kg)
- P_{FOOD1} = Proportion of diet composed of food item 1 (unitless)
- C_{FOOD2} = C_{MEDIUM} × BAF_{FOOD2} (mg/kg)
- P_{FOOD2} = Proportion of diet composed of food item 2 (unitless)
- C_{FOOD i} = C_{MEDIUM} × BAF_{FOOD i} (mg/kg)
- P_{FOOD i} = Proportion of diet composed of the ith food item (unitless)
- C_{MEDIUM} = Concentration in the medium of interest, such as soil or plants
- BAF_{FOOD1} = Bioaccumulation factor for first food item (unitless)
- BAF_{FOOD2} = Bioaccumulation factor for second food item (unitless)
- BAF_{FOOD i} = Bioaccumulation factor for the ith food item (unitless)

Dietary dose for soil is estimated by multiplying the amount of soil that is ingested by the chemical concentration in the soil. As surface water is not considered a pathway in the OU-2

Refined SLERA Area, the dietary dose by this pathway is 0. Dietary dose for food is obtained by summing the proportion of each dietary component multiplied by the concentration in each dietary component and multiplying that by the food ingestion rate. The concentration of chemicals in food and prey items (plants, invertebrates, small mammals) are estimated using COPEC concentrations in the OU-2 Refined SLERA Area soil and literature-derived bioaccumulation factors (BAFs). If a receptor does not consume a given prey item, the fraction of the diet for that item is 0. Likewise, if a receptor does not consume a given medium, the amount of that medium consumed is 0. The food web model uptake approach for the dietary items (terrestrial plants, terrestrial invertebrates, and prey mammals) are presented in Appendix F.

Absorption factors (AFs) are also a component of the TDD. A conservative default value of 1 is used as the AF (i.e., the fraction of chemical ingested that is absorbed into the system). This assumption likely overestimates the TDDs, as laboratory toxicity tests often use highly available forms of the test chemical, whereas actual bioavailability under natural conditions is considerably lower.

The two EPC scenarios described in Section 4.6.2 are used to perform a series of calculations that represent the TDD estimates for each bird and mammal receptor.

4.6.2.2 Bioaccumulation and Bioconcentration Factors

The processes of bioaccumulation and bioconcentration are important to ERAs because they provide a basis for prediction and discussion regarding the potential chemical uptake into flora and fauna. Chemicals in tissues of organisms of the food web are likely to be ingested by the species that feed on them (i.e., those occupying higher trophic levels), the result of which may be the expression of toxicological effects by the higher trophic level species. Bioaccumulation differs from bioconcentration based on the mechanism of chemical uptake, although distinguishing between the two is sometimes highly artificial (Streit 1992). Bioconcentration describes the accumulation of a water-borne chemical by an aquatic organism, whereas bioaccumulation covers the uptake from all environmental sources (e.g., water, food, and sediment). While chemicals with low bioaccumulation potential can pose a risk to wildlife at high enough soil concentrations via incidental ingestion of soil, the exposure does not occur through the food web. Therefore, only bioaccumulative chemicals were evaluated in the food web model. The list of bioaccumulative compounds included in USEPA (2000a and 2007a) was consulted to identify the bioaccumulative compounds within the OU-2 Refined SLERA Area that require evaluation in the food web model. These include the following:

- Perchlorate
- Lead
- Mammal TEQ
- Bird TEQ
- Beta-BHC
- DDx

BAFs and bioconcentration factors (BCFs) used for the food web modeling were obtained from literature sources such as Sample et al. (1997), Baes et al. (1984), Travis and Arms (1988), Belfroid et al. (1994), Belfroid et al. (1995), Beyer (1990), Beyer et al. (1996), and other related literature. The specific sources of BAFs and BCFs are provided in Appendix F – Tables F-1a, F-1b, and F-1c for plants, invertebrates, and mammals, respectively.

Bioaccumulation and Bioconcentration Factors for TEQ

The USEPA's Eco-SSL guidance document (USEPA 2007a) develops a mathematical approximation for uptake factors of non-ionic organic constituents from soil into earthworms based on a series of equations that consider the octanol-water partitioning coefficient (K_{ow}), the lipid fraction of the earthworms, the organic carbon content of the soil (f_{oc}), and the soil organic carbon to water partitioning coefficient (K_{oc}). This means that the uptake of hydrophobic persistent organic pollutants such as dioxins and furans is governed by the balance between the organic carbon in the soil and the lipids of the receptor mediated by the amount of the constituent that can be dissolved in soil porewater.

The USEPA (2007b) states:

$$C_{worm} = K_{ww} \times C_w \quad (\text{Equation 1})$$

Where:

- C_{worm} = concentration in worm (mg/kg ww)
- K_{ww} = biota to soil water partitioning coefficient (L soil pore water/kg ww tissue)
- C_w = concentration in soil pore water (mg/L)

and K_{ww} is calculated from the following equation:

$$\text{Log}(K_{ww}) = 0.87 \times \text{Log}(K_{ow}) - 2 \quad (\text{Equation 2})$$

- K_{ww} = biota to soil water partitioning coefficient (L soil pore water/kg ww tissue)
- K_{ow} = octanol-water partitioning coefficient

The concentration of the constituent in soil pore water is calculated as:

$$C_w = C_{SOIL} / K_d \quad (\text{Equation 3})$$

Where:

- C_{SOIL} = concentration in soil (mg/kg soil)
- K_d = soil to water partitioning coefficient (L soil pore water/kg dry weight [dw] soil)

and:

$$K_d = f_{oc} \times K_{oc} \quad (\text{Equation 4})$$

Where:

- f_{oc} = fraction of organic carbon in soil (kg organic carbon/kg soil)

K_{oc} = soil organic carbon to water partitioning coefficient (L soil pore water/kg organic carbon)

Equations 1, 3, and 4 can be combined as:

$$C_{worm} = \frac{K_{ww} \times C_{soil}}{f_{oc} \times K_{oc}} \quad (\text{Equation 5})$$

Equation 5 can be rearranged to isolate concentration in soil (C_{soil}) so that the latter half of the equation functions as a BAF.

$$C_{worm} = C_{soil} \times \left(\frac{K_{ww}}{f_{oc} \times K_{oc}} \right) \quad (\text{Equation 6})$$

Equation 2 can then be rearranged to solve for K_{ww} :

$$K_{ww} = 10^{(0.87 \times \text{Log}(K_{ow}) - 2)} \quad (\text{Equation 7})$$

The $\text{log}(K_{ow})$ for 2,3,7,8-tetrachlorodibenzo-p-dioxin (TCDD) is 6.8 (USEPA 2000b), so K_{ww} from Equation 7 can be calculated as follows:

$$K_{ww} = 10^{(0.87 \times 6.8 - 2)}$$

$$K_{ww} = 8,242$$

The soils within the NERT Site average 0.5287% organic carbon, or a f_{oc} of 0.00529.

The K_{oc} for TCDD is 3.98×10^6 (USEPA 2000b). Therefore, using Equation 4 and solving for K_d results in the following:

$$K_d = f_{oc} \times K_{oc}$$

$$K_d = 0.00529 \times (3.98 \times 10^6)$$

$$K_d = 21,042$$

Therefore, using Equation 6, and solving for C_{worm} :

$$C_{worm} = C_{soil} \times \left(\frac{K_{ww}}{f_{oc} \times K_{oc}} \right) \quad (\text{Equation 8})$$

$$C_{worm} = C_{soil} \times \left(\frac{8,242}{21,042} \right)$$

$$C_{worm} = C_{soil} \times 0.39$$

The OU-2 Refined SLERA Area BAF for earthworms for dioxin and furan TEQs (as TCDD) is 0.39, calculated using equations 1 to 8 as shown above with the average organic carbon content of 0.5%. The organic carbon for the OU-2 Refined SLERA Area ranges from 0.03% to 1.4%. BAFs derived using the average, 95th percentile, and 99th percentile of f_{oc} are summarized below:

Range of Estimated TCDD BAFs Based on OU-2 Organic Carbon				
	Avg	95th Percentile f_{oc}	99th Percentile f_{oc}	Maximum f_{oc}
f _{oc}	0.005287	0.01264	0.014128	0.0145
BAFs	0.39	0.16	0.15	0.14

BAF = bioaccumulation factor
 f_{oc} = fraction organic carbon

Literature studies were also considered as a basis of BAFs because Nevada is part of the American desert and "the distribution and presence of earthworms will be closely associated with habitats that remain moist and protected from extreme temperature changes" (Reynolds 2015). The soils in the OU-2 Refined SLERA Area are mostly sandy, dry, and compacted and provide little moisture and protection for earthworms (see photolog in Appendix B and description in Section 2.1.2). These soils have been described as "primarily Quaternary alluvial deposits that slope north toward the Wash. The alluvium consists of a reddish-brown, heterogeneous mixture of well-graded sand and gravel, with lesser amounts of silt, clay, and caliche" (Section 2.1.2). Sand and gravel are not the type of soil where earthworms can flourish. Uptake factors for earthworms, therefore, likely overestimate the likelihood of chemical exposures via the food web within the OU-2 Refined SLERA Area.

Studies of TCDD/TEQ uptake factors for terrestrial insects were also considered for the OU-2 Refined SLERA Area food web model and are described here. The uptake factors provided are derived from a field study where TCDD was measured in soil and in a variety of insects in Florida (Young et al. 1987). TCDD soil concentrations were measured in three areas. The TCDD uptake factors calculated from this study, assuming a TCDD soil concentration of approximately 325 nanograms per kilogram (ng/kg, or 0.000325 mg/kg), range from 0.06 to 0.73. TCDD uptake factors (BCFs) for crickets, insects, spiders, and grubs derived from this study are as follows:

BAFs Estimated from Young et al. (1987)	Estimated TCDD BAF
Grasshoppers	Not detected (BAF of 0)
Crickets (minimum)	0.06
Crickets (maximum)	0.08
Soil/Plant Insects	0.12
Burrow Spiders	0.35
Beetle Grubs	0.73

BAF = bioaccumulation factor

Kay et al. (2005) surveyed soil and wildlife concentrations of TCDD near the Tittabawassee River in Michigan. Their data includes co-located soil concentrations and invertebrate concentrations that allow for calculation of BCFs for the reference area and two study areas. The estimated BAFs from this study range from 0.0062 to 0.55 in areas with average soil concentrations of TCDD, ranging from 2.04 ppt for the reference area and approximately 2,500 ppt for Locations 1 and 2 (i.e., 0.0000204 and 0.0025 mg/kg). Estimated BAFs using the data from Kay et al. (2005) showed that higher TCDD concentrations yielded lower BAFs.

BAFs Estimated from Kay et al. (2005)	Estimated BAFs		
	Reference Area	Location 1 Mean	Location 2 Mean
Fresh earthworms	0.34	0.051	0.039
Terrestrial, non-earthworm invertebrates	0.55	0.0062	0.012

BAF = bioaccumulation factor

The concentration range using TEQ for the OU-2 Refined SLERA Area soil is approximately 0.068 ng/kg to approximately 400 ng/kg, with an average of approximately 62 ng/kg for mammal TEQ (0.00000062 mg/kg to 0.00040 mg/kg, with an average of 0.000062 mg/kg; Appendix C-3a), and 0.895 ng/kg to 925 ng/kg, with an average of approximately 140 ng/kg avian TEQ (0.000000895 mg/kg to 0.000925 mg/kg, with an average of 0.000141 mg/kg; Appendix C-3a). These concentrations are in the range of the Young et al. (1987) and the Kay et al. (2005) studies. Based on the available information, including the range of BAFs calculated using the USEPA Eco-SSL (USEPA 2007a) formulae and OU-2 Refined SLERA Area organic carbon data, the BAF used for OU-2 is 0.19. The uncertainty associated with the BAF is discussed in the uncertainty assessment.

4.6.2.3 Exposure Parameters

Exposure parameters include incidental soil ingestion rates, food ingestion rates, prey preferences (percent dietary composition), body weight, and foraging range. For terrestrial wildlife species, these parameters were generally obtained from the USEPA's Wildlife Exposure Factors Handbook (USEPA 1993) and ORNL's Estimating Exposure of Terrestrial Wildlife to Contaminants (ORNL 1994). Alternate sources were used if the standard sources did not provide sufficient information. The literature was reviewed for exposure factors specific to local or southwestern species where available. Food ingestion rates were based on the receptor's average body weight identified in the literature. Food items evaluated in the food web model include plants, soil invertebrates, and small mammals.

Receptor-specific food ingestion rates were used for each of the receptors listed in Section 4.6.1 (USEPA 1993, Sample et al. 1997, USACHPPM 2004). Guidance documents (USEPA 1993, Sample et al. 1997, USACHPPM 2004) did not have receptor-specific food ingestion rates for the burrowing owl, fringed myotis, raccoon, and great basin pocket mouse. For these receptors, food ingestion rates were calculated using an allometric equation for either

birds or mammals, as described in USEPA (1993), and converted from DW to WW as needed using the moisture content of the dietary items, which ranged from 10% to 75%. The exposure parameters or inputs for the receptor-specific dietary exposure models are identified by species in Appendix F-2. A summary of wildlife food web input variables and receptor parameters is provided in Table 4-7a based on the exposure parameters summarized in Appendix F for each bird and mammal receptor, as follows:

- Table F-2a: Cooper's Hawk Exposure Parameters
- Table F-2b: Kit Fox Exposure Parameters
- Table F-2c: Western Burrowing Owl Exposure Parameters
- Table F-2d: American Robin Exposure Parameters
- Table F-2e: Desert Shrew Exposure Parameters
- Table F-2f: Fringed Myotis Exposure Parameters
- Table F-2g: Raccoon Exposure Parameters
- Table F-2h: Mourning Dove Exposure Parameters
- Table F-2i: Great Basin Pocket Mouse Exposure Parameters

The AUFs account for site-specific exposure frequency and are applied when the foraging area of a wildlife receptor is larger than the area being assessed. AUFs account for mobile wildlife receptors obtaining at least a portion of their food outside the OU-2 Refined SLERA Area. An AUF of 1 indicates that a wildlife receptor would obtain 100% of their diet from an area. An AUF of less than 1 (e.g., 0.4) assumes that a wildlife receptor would obtain only a portion (e.g., 40% for a AUF of 0.4) of their diet from an area. Although the OU-2 Refined SLERA Area encompasses a relatively large area and might include the entire foraging area of some wildlife receptors, there are many wildlife receptors with AUFs substantially larger than the OU-2 Refined SLERA Area. The specific AUFs used for each of the bird and mammal wildlife receptors included in this OU-2 Refined SLERA are provided in Appendix F-2 and summarized in Table 4-7a. For example, the AUF for the kit fox, whose home range is approximately 1,220 hectares based on radiotelemetry data, is set to 0.24 to adjust for the fact that the foxes home range is larger than the OU-2 Refined SLERA Area (ORNL 1994). The basis of each AUF considered in this OU-2 Refined SLERA is described in Appendix F-2, as appropriate. Species such as mice, robins, and shrews do not have variable AUFs because their home ranges are small compared to the spatial scale of the area included in this OU-2 Refined SLERA.

4.6.2.4 Calculation of Potential Doses

Food web, ingestion-based modeling calculations were performed to characterize potential exposures to contaminants via the food web and to identify potential adverse effects for mammals and birds, as provided in Appendix G, using the dataset in Tables G-1 to G-9.

The following tables are provided in Appendix G for the food web evaluation:

- Cooper's Hawk (Table G-1)

- Kit Fox (Table G-2)
- Western Burrowing Owl (Table G-3)
- American Robin (Table G-4)
- Desert Shrew (Table G-5)
- Fringed Myotis (Table G-6)
- Raccoon (Table G-7)
- Mourning Dove (Table G-8)
- Great Basin Pocket Mouse (Table G-9)

Understanding potential effects to populations requires some consideration of the spatial scale of effects. The portion of the OU-2 Refined SLERA Area where constituent exposures may reasonably occur was conservatively estimated. Where birds and mammals have large home ranges, their exposure to constituents is lower than for birds and mammals with smaller home ranges.

Through food web modeling, COPECs were either retained or eliminated from further steps of the OU-2 Refined SLERA. As stated above, the food-web modeling starts from an initial set of extremely conservative assumptions (maximum EPC, 100% bioavailability, AUF of 1) and was used to identify chemicals that require further consideration. The food web model was refined to incorporate more realistic, site-specific assumptions to better understand both the conservative and realistic scenarios using refined exposure estimates.

4.6.3 Effects Assessment for Food Web Pathways

The effects assessment for wildlife is based on TRVs that relate ingested daily dose to ecotoxicological endpoints. TRVs for wildlife are literature-derived doses, below which adverse effects are unlikely. NOAEL TRVs are indicative of doses of constituents that have no deleterious effects on a given wildlife receptor. LOAEL TRVs are the minimum doses of constituents where deleterious effects are only just becoming apparent. Both NOAEL and LOAEL TRVs were used in the ERA because the NOAEL TRVs represent the reasonable worst-case measure of effect and the LOAEL TRVs provide a realistic measure of effect. This approach provides a basis for understanding potential effects to individual birds and mammals. The results for birds and mammals can also be used to estimate potential risk to reptiles, considering the lack of TRVs available in the literature specific to reptiles.

The following literature sources were reviewed for TRVs to be used in the ERA:

- USEPA. 2007c. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-5 Eco-SSL Standard Operating Procedure (SOP) #6: Derivation of Wildlife Toxicity Reference Value. OSWER Directive 9285.7-55. Revised June.
- USEPA Region 6. 1999. Screening-Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Region 6. Volume One (EPA530-D-99-001A). August.

- Sample, B. E., D.M. Opresko, G. W. Suter II. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision. Oak Ridge National Laboratory, Oak Ridge, TN. June 1996. ES/ER/TM-86/R3.
- United States Army Center for Health Promotion and Preventive Medicine. 2007. Wildlife Toxicity Assessment for Perchlorate (USACHPPM Document No. 87-MA02T6-05D). February.

The TRVs used in the food web model are provided in Table 4-7b. TRVs for dioxin and furan TRVs are based on bird and mammal TEQ, as described for birds and mammals.

Bird Dioxin/Furan TEQ TRVs

The dietary TRVs used for the food web modeling for birds in this OU-2 Refined SLERA were derived from the Nosek et al. (1992a) pheasant study, as shown in Table 4-7b. These NOAEL and LOAEL TRVs are considered appropriately protective for use in the OU-2 Refined SLERA because there is a scientific basis and a regulatory precedent for use of this study by USEPA. The scientific basis and USEPA precedents are described as follows: Nosek et al. (1992a), Nosek et al. (1992b), and Nosek et al. (1993), conducted several comprehensive toxicity studies of TCDD in the ring-necked pheasant. Nosek et al. (1992a) measured egg production and hatchability following weekly exposure of hens via injection of TCDD into the abdominal cavity, at 3 concentrations for 10 weeks that included reproduction. Hens were dosed once per week for 10 weeks, with 10, 100, 1,000 ng TCDD per kg adult body weight ($\text{kg adult body wt}^{-1}$) per week (wk^{-1}). During weeks 9 and 10, the hens were bred to unexposed roosters. Eggs were collected from each hen and reared through hatching. All hens receiving 10 doses of 1,000 ng TCDD/kg adult body $\text{wt}^{-1}\cdot\text{wk}^{-1}$ (a cumulative dose of 10,000 ng/kg adult body wt^{-1}) died by the end of 24 weeks. Body weight and egg production in the high dose group declined, whereas body weight and egg production increased in the other treatment groups. Embryo mortality was 100% in the eggs produced by hens in the high dose group and generally occurred within 72 hours of laying. Embryo mortality appeared to increase in a dose-dependent manner but was only significantly different from controls in the high dose group. The subacute NOAEL and LOAEL derived from this study were 100 and 1,000 ng TCDD $\cdot\text{kg adult body wt}^{-1}\cdot\text{wk}^{-1}$. Based on daily dietary exposure, the NOAEL and LOAEL are 14 and 140 ng TCDD $\cdot\text{kg adult body wt}^{-1}$ per day (d^{-1}) based on adult mortality, egg production, and embryo mortality.

- The results of the same Nosek et al. (1992a) study have been used to develop TRVs in other studies, and they are therefore considered applicable for the NERT OU-2 Refined SLERA. For example, Sample et al. (1996) used the NOAEL and LOAEL TRVs reported in Nosek et al. (1992a) as the basis for developing TCDD TRVs for numerous avian wildlife receptors. Sample et al. (1996) did not apply any uncertainty factors to the values reported by Nosek et al. (1992a) due to the sensitivity of measured endpoints and are therefore not applied in this OU-2 Refined SLERA. In addition, an interspecies uncertainty factor is not necessary because the pheasant is equally sensitive or more sensitive to TCDD induced effects than other avian species studied (e.g., Cohen-Barnhouse et al. 2011). The endpoints, egg laying and egg hatchability, measured in Nosek et al. (1992a) are of ecological relevance and likely the most sensitive endpoints for avian species; therefore, there is no endpoint extrapolation uncertainty factor.

- USEPA (1995) selected the values reported in Nosek et al. (1992a) to develop a chronic water quality value for avian wildlife exposed to TCDD. USEPA (2001, 2000b) used the Nosek et al. (1992a) pheasant study to develop dietary exposure TRVs for the kingfisher, great blue heron, mallard, and bald eagle. Uncertainty factors used in that assessment were the same as those described above for USEPA (1995), with final chronic NOAEL and LOAEL TRVs of 1.4 and 14 ng TCDD·kg adult body wt⁻¹·d⁻¹, respectively.

Mammal Dioxin/Furan TEQ TRVs

The protective mammalian TEQ TRVs for this OU-2 Refined SLERA shown in Table 4-7b are based on the scientific literature: Murray et al. 1979; Moore et al. 2011; and Zwiernik et al. 2009. Specifically, the Murray et al. (1979) rat study was used for the evaluation of exposures and risks for the pocket mouse in this OU-2 Refined SLERA. TRVs derived from studies on sensitive species, such as mink, were considered conservative and protective for the evaluation in this OU-2 Refined SLERA. While mink are not present in the OU-2 Refined SLERA Area due to the lack of available aquatic habitat, mink have been observed to be among the most sensitive mammalian species for which information on the effects of dioxins, furans, and related compounds is available. Therefore, use of mink TRVs for the shrew, raccoon, kit fox, and fringed bat is considered a conservative evaluation of potential risks for these receptors. The studies considered for OU-2 Refined SLERA TRVs are briefly described as follows:

- Murray et al. (1979) conducted a three-generation reproduction study in which Sprague-Dawley rats were exposed by diet to three doses of TCDD plus a control (0, 1, 10, and 100 ng/kg body wt⁻¹·d⁻¹) through a reproductive life stage. No adverse effects were observed at a dose level of 1 ng TCDD/kg body wt⁻¹·d⁻¹. At 10 ng TCDD/kg body wt⁻¹·d⁻¹, adverse effects were observed including a decrease in fertility, litter size, gestation survival, postnatal survival, and postnatal body weight. This was a multi-generational study that considered dietary exposure during reproduction, and the effect levels are lower than reproductive effect levels reported for other mammals. Hence, the 1 and 10 ng TCDD/kg body wt⁻¹·d⁻¹ doses were considered to be chronic NOAELs and LOAELs that are appropriately conservative for the range of sensitivity for mammals in terrestrial habitats.
- Blankenship (2008) identified dietary TRVs for mink exposed to TEQ that ranged from 12.1 to 56.6 ng TEQ/kilogram feed as wet weight (kg feed[ww]⁻¹) for the NOAEC and from 50.4 to 242 ng TEQ/kg feed(ww)⁻¹ for the LOAEC. The corresponding body weight normalized doses for the high end of each of these ranges are 7.2 ng TEQ/kg body wt⁻¹ d⁻¹ for NOAEL (Bursian et al. 2006) and 31 ng TEQ/kg body wt⁻¹ d⁻¹ for LOAEL (Zwiernik et al. 2009).
- The more recent and relevant laboratory feeding study conducted by Moore et al. (2011) evaluated reproductive and developmental effects of 2,3,7,8-TCDD, 2,3,7,8-tetrachlorodibenzofuran (TCDF) and 2,3,4,7,8-pentachlorodibenzo-p-furan (PeCDF). The design of the feeding study followed the WHO's recommendations for exposure studies investigating the relative potency of dioxin-like compounds (Van den Berg et al. 1998; Van den Berg et al. 2006). Mink exposure occurred over an entire reproductive cycle as part of the daily diet for 117 female mink and their offspring. The study included four doses each for three treatments: two individual furan

congener treatments (TCDF and PeCDF) and a single dioxin treatment (TCDD). The lower doses bracketed environmentally relevant concentrations, while the highest dose-level for each congener (TCDD=8.4 ng, PeCDF=15 ng, and TCDF=25 ng TEQ/kg body wt-1 d-1) was significantly greater than median predicted environmental exposures for dioxin-contaminated sites. Based on TEF-normalized PCB and PCB mixture feeding studies, this was expected to elicit complete reproductive failure. Measurement endpoints included adult survival, adult breeding success, whelping success, kit survival, nutritional status, feed consumption, gross morphology attributes including organ masses and physical abnormalities, induction, and activity of cytochrome P450 xenobiotic metabolizing enzymes (enzyme induction, protein concentrations, and gene expression related to cytochrome P450), liver and jaw histology, and kit health measurements including birth mass, survival, and growth. TCDD, PeCDF, or TCDF at the greatest doses employed did not result in complete reproductive failure. In fact, the greatest dose did not elicit a statistically significant response for any of the measurement endpoints associated with reproduction or survival. Therefore, congener-specific NOAELs derived from the Moore et al. (2011) study are applied as NOAELs in this OU-2 Refined SLERA (8.4 ng TCDD TEQ, 15 PeCDF ng TEQ, and 25 TCDF ng TEQ/kg body wt-1 d-1). The LOAEL of 31 ng TEQ/kg body wt⁻¹ d⁻¹ from Zwiernik et al. (2009) is also applied but considered conservative due to the presence of co-contaminants.

- There is a wide range of species sensitivities to PCDDs, PCDFs, and other AhR-active chemicals (Gasiewicz et al. 1991). Thus, the less related the test species is compared to the receptor of concern, the more uncertainty is associated with the TRV. Very few studies have evaluated ecologically relevant endpoints after chronic exposure of dioxins and furans to mammals. Given that limitation, studies that included ecologically relevant endpoints such as effects on reproductive and developmental toxicity as well as reduced survival were relied upon whenever possible.

4.6.4 Refined Risk Calculations for Food Web Pathways

Predictions of the likelihood for adverse effects, if any, for the food web modeling studies was based on HQs (USEPA 1997).

$$\text{FWM HQ} = \frac{\text{TDD}}{\text{TRV}}$$

Where:

FWM HQ = Food Web Model Hazard quotient
TDD = total daily dose
TRV = NOAEL and LOAEL TRVs

The food web model for the OU-2 Refined SLERA Area presents a matrix of risk assessment results (i.e., HQs) in terms of the NOAEL HQs and LOAEL HQs for each of the bird and mammal wildlife receptors as follows:

Birds and Mammals	Food Web Model Risk Estimates (HQs) for Birds and Mammals			
	NOAEL		LOAEL	
Bird and Mammals	Maximum	UCL	Maximum	UCL
Cooper's Hawk	✓	✓	✓	✓
Kit Fox	✓	✓	✓	✓
Burrowing Owl	✓	✓	✓	✓
American Robin	✓	✓	✓	✓
Desert Shrew	✓	✓	✓	✓
Fringed Bat	✓	✓	✓	✓
Raccoon	✓	✓	✓	✓
Mourning Dove	✓	✓	✓	✓
Pocket Mouse	✓	✓	✓	✓

HQ = Hazard Quotient
 NOAEL = No Observable Adverse Effect Level
 LOAEL = Lowest Observable Adverse Effect Level
 UCL = Upper Confidence Level of the Mean

Where:

- ✓ Reflects the most conservative of any risk estimate, likely not realistic because wildlife is not continuously exposed to maximum concentrations.
- ✓ Reflects varying degrees of conservative risk estimates depending on the exposure point concentration (maximum or central tendency), the dataset used (all data or the refined dataset excluding data points from soils under asphalt and pavement), and the toxicity reference value (reflecting "no observable adverse effect" or the "lowest observable adverse effect").
- ✓ Reflects the risk estimates (i.e., HQs) that are most informative as to whether or not potential "lowest observable adverse effects" are likely to be observed for one or more of the birds and mammals evaluated.

The ecological significance of risk must consider the available information, such as wildlife use of the environment, the spatial extent of the release, the persistence of the release (i.e., the temporal scale), and natural variability within the system (and whether impacts can be measured separate from natural variability). The spatial scale of the risk is considered relative to the extent of the actual wildlife populations, the number of organisms within the population that may be impacted, the correlation between stressor and response as indicated by the TRV, the scientific basis for judging environmental harm, the receptor specificity of available data and how that relates to the OU-2 Refined SLERA Area, and the representativeness of exposure and effects data sets (spatial, temporal, and quantitative) (Barntouse et al. 2008; USEPA 1997, 1994).

4.6.5 Risk Characterization for the Food Web Pathways

The risk characterization for the food web pathways involves the integration of the exposure assessment and effects assessment to evaluate the likelihood, severity, and spatial distribution of predicted or observed effects. For the food web pathways, this is an HQ that compares the TDD and TRV, where an HQ that is less than or equal to a threshold value of 1 indicates that adverse impacts to bird and mammal populations via the food web is unlikely.

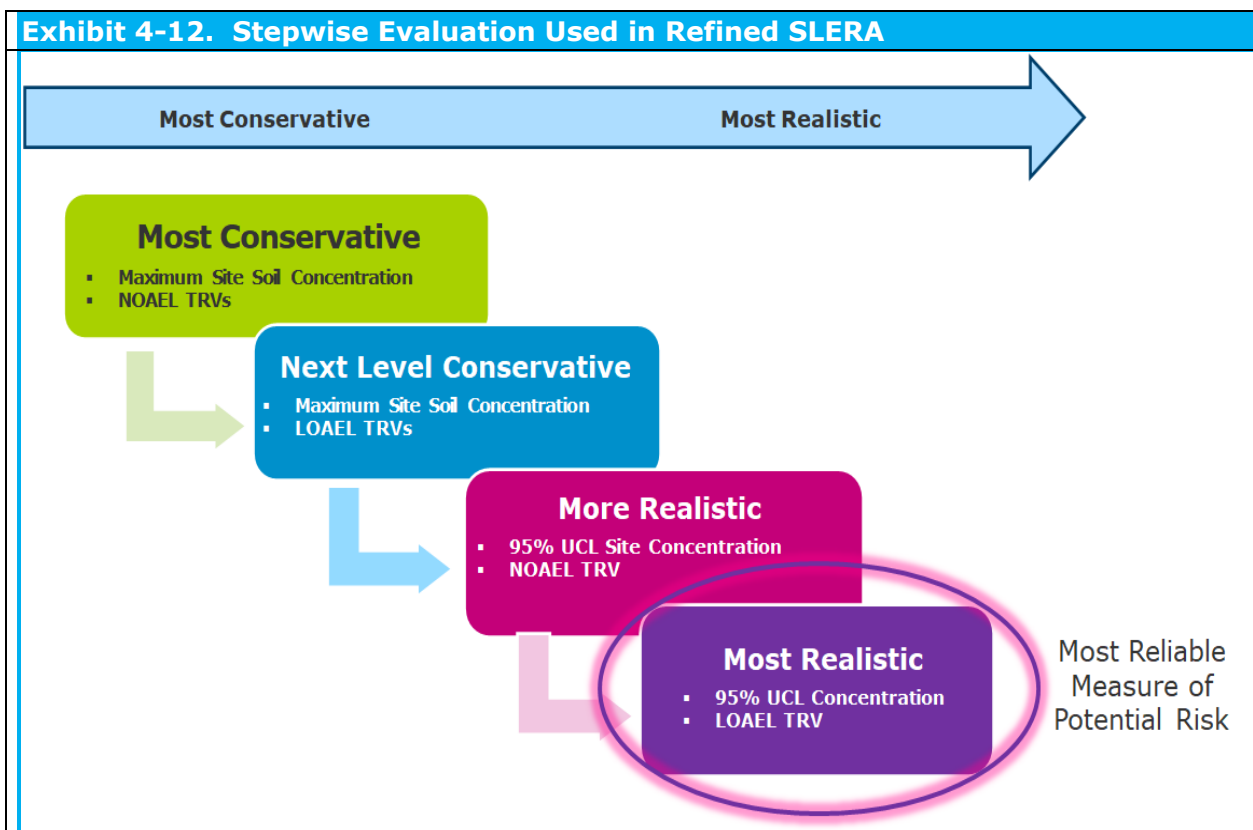
The food web model HQs for each of the representative species identified in Section 4.6.1 is provided in Appendix G, Tables G-1 through G-9, as follows:

- Table G-1 Potential Daily Dose and Hazard Quotients for Cooper's Hawk
- Table G-2 Potential Daily Dose and Hazard Quotients for Kit Fox
- Table G-3 Potential Daily Dose and Hazard Quotients for Western Burrowing Owl
- Table G-4 Potential Daily Dose and Hazard Quotients for American Robin
- Table G-5 Potential Daily Dose and Hazard Quotients for Desert Shrew
- Table G-6 Potential Daily Dose and Hazard Quotients for Fringed Myotis
- Table G-7 Potential Daily Dose and Hazard Quotients for Raccoon
- Table G-8 Potential Daily Dose and Hazard Quotients for Mourning Dove
- Table G-9 Potential Daily Dose and Hazard Quotients for Great Basin Pocket Mouse

The information provided in Appendix G is summarized into a series of tables that provide the wildlife food web model HQ for each of the birds and mammals, as follows:

- Food Web Model Maximum Hazard Quotient Summaries are provided on Table 4-8.
- Food Web Model 95% UCL Hazard Quotient Summaries are provided on Table 4-9.
- Food Web Model 95% UCL/LOAEL Hazard Quotient Summaries are provided on Table 4-10.

The refined SLERA is conducted in a stepwise fashion starting with the most conservative input values and proceeding to a realistic evaluation of potential risk as follows:



Notes: lowest observed adverse effect level (LOAEL); no observed adverse effect level (NOAEL); toxicity reference value (TRV); upper confidence level of the mean (UCL)

Each of these steps are summarized as follows:

- A. Most Conservative:** This is the first step in the evaluation of potential risk where the most conservative values are used to calculate HQs using the maximum soil concentrations (maximum EPCs) within the OU-2 Refined SLERA Area compared to highly conservative NOAEL TRVs. The most conservative step also assumes that wildlife spends 100% of their time within the OU-2 Refined SLERA Area which is indicated by an AUF set to 1.
- B. Next Level Conservative:** This is the next level of conservative evaluation of potential risk where HQs are calculated using the maximum soil concentrations compared to LOAEL TRVs. The results are presented considering AUFs equal to 1 and species-specific AUFs (AUFs less than or equal to 1 depending on the species).
- C. More Realistic:** This third level of evaluation represents a more realistic evaluation of potential risks to wildlife within the OU-2 Refined SLERA Area where HQs are calculated using the 95% UCL soil concentrations (95% UCL EPCs) compared to NOAEL TRVs and AUFs equal to 1.
- D. Most Realistic:** The final level of evaluation reports HQs using the most realistic values contained in the food web model. This includes the 95% UCL soil concentrations compared to LOAEL TRVs and species-specific AUFs.

Note that HQ calculations are provided for each species with an AUF of 1 (meaning the bird or mammal spends 100% of the lifetime within the OU-2 Refined SLERA Area) as noted in the tables and appendices referenced. For the summary of chemicals with HQs exceeding 1 discussed in the risk characterization and risk summary, the HQs reflect the more realistic AUFs for larger home range species (i.e., Cooper's hawk, kit fox, burrowing owl, fringed myotis, raccoon, and mourning dove).

Most Conservative: OU-2 HQs using Maximum EPCs, NOAEL TRVs, and AUFs equal to 1.

The food web model results for OU2 using the most conservative input values are provided in Table 4-8 (MAX/NOAEL column). A summary of the results indicate that the maximum EPC/NOAEL HQs exceed the threshold value of 1 for at least 1 receptor for 2 of the 5 chemicals, lead and dioxin/furan TEQs (mammal and avian), included in the food web model. HQs for perchlorate, beta-BHC, and DDX were below 1 for each species evaluated.

Next Level Conservative: OU-2 HQs using Maximum EPCs, LOAEL TRVs, with and without species specific AUFs.

The food web model results for OU-2 using the next level conservative input values are provided in Table 4-8 (MAX/LOAEL column). A summary of the results indicate that the maximum EPC/LOAEL HQs exceed the threshold value of 1 for 1 (lead) of the 5 chemicals included in the food web model. HQs for perchlorate, dioxin/furan TEQs (mammal and avian), beta BHC, and DDX were less than or equal to 1 for each species evaluated. Lead was the only chemical with a LOAEL HQ that exceeded the threshold value of 1. This result applies regardless of whether the species-specific AUF or the AUF of 1 is used.

More Realistic: OU-2 HQs are calculated using the 95% UCL EPCs, NOAEL TRVs, and AUFs equal to 1.

The food web model results for OU-2 using more realistic input values are provided in Table 4-9 (UCL/NOAEL column). A summary of the results indicate that the 95% UCL/NOAEL HQs do not exceed the threshold value of 1 for any of the 5 chemicals included in the food web model.

Most Realistic: OU-2 HQs are calculated using the 95% UCL EPCs, LOAEL TRVs, with and without species-specific AUFs.

The HQs for each COPEC are below the threshold value of 1 for all of the 95% UCL and LOAEL HQs, as summarized on Table 4-10, even when using the highly conservative assumption that wildlife spends 100% of their time within the OU-2 Refined SLERA Area.

Conclusions for Birds and Mammals via the Food Web Modeling Evaluation

Collectively, these findings support the conclusion that the constituents present in OU-2 Refined SLERA Area soils do not pose an unacceptable risk to wildlife via the food web.

4.6.5.1 Risk Characterization for Reptiles

Although populations of herpetofauna (reptiles and amphibians) are valued ecological entities, the current state of the art techniques for risk assessment are insufficient to adequately incorporate herpetofauna in risk analysis with acceptable levels of uncertainty

(Sparling et al. 2000). Therefore, generalizations are made regarding risk to reptiles using terrestrial invertebrates, mammals, and birds. Results indicate that there is little to no risk for terrestrial invertebrates, mammals, and birds in the OU-2 Refined SLERA Area; therefore, risks to reptiles and amphibians are likely to be minimal to non-existent. Furthermore, the OU-2 Refined SLERA Area habitat is predominantly developed and improved with buildings and roads, such that there is very limited natural habitat for reptiles and no known habitat for amphibians in this area.

4.7 Characterization of Uncertainties

The characterization of uncertainty is a component of the ERA process (USEPA 1997). The ERA process seeks to reduce uncertainty (when possible) using site-specific information. Uncertainties associated with the food web model attributes are considered and discussed below and detailed in Table 4-11.

Uncertainties are found in each stage of the ERA process including in the hazard identification, the use of chemical and biological data in the exposure assessment, in the effects assessment and in the risk characterization. Examples of key uncertainties in the ERA process include:

- Use of maximum concentrations to characterize potential risks, which reflects the maximum exposure potential and is unlikely because wildlife is not typically exposed to the maximum concentration of each chemical throughout the landscape.
- Use of the 95% UCL based on sampling intended to characterize the highest concentrations likely to be present at the Site because this sampling approach is intended to characterize impacted areas and not areas that have not been impacted.
- Use of ESVs from laboratory studies on sensitive organisms that may or may not reflect sensitivities of organisms at the Site.
- Uncertainties in evaluating risk of chemicals lacking ESVs (discussed further in Section 4.6.1 and Appendix H-1).
- Uncertainties in evaluating risk of non-detected chemicals with SQLs which exceed their respective ESVs (discussed further in Section 4.7 and Appendix H-2) and nondetected chemicals with no ESVs (discussed further in Section 4.7 and Appendix H-3).
- Uncertainties that exist in ecological food web modeling, such as the use of standardized receptor parameters, which are based on a single value which is generally conservative. Natural wildlife has a normal range of body weights and dietary intake. In addition, the dietary preferences for birds and mammals at the Site may vary from those parameters used in the food web model, which reflect typical food items.
- Uncertainties in the risk results stem from the significant variability inherent in the uptake values used in food web models. Specifically, the BAFs used in the food web model obtained from the literature can range over several orders of magnitude, as is discussed further in Appendix H-4. While this appendix was prepared specially for the

OU-1 Refined SLERA, the information pertains to this same uncertainty in the OU-2 Refined SLERA.

- AUFs may not reflect actual organism use of the Site, particularly given human disturbances at the Site.
- Conservative toxicological benchmarks are used to quantify the range of potential risks and generally consider the most sensitive organisms. Not all plants, soil invertebrates, reptiles, birds, and mammals are as sensitive to chemicals as the most sensitive organisms. So, it is possible that some risks may be overestimated. Also, toxicological benchmarks are based on species that can be tested in a laboratory environment and benchmarks are not available for all species likely to be present at the Site.
- HQs reflect potential risks to individual organisms and do not directly indicate population level impacts. The potential risks to populations must be inferred based on the magnitude of HQs. Also, the HQs provided in this OU-2 Refined SLERA include NOAEL concentrations and LOAEL concentrations to provide insight into potential population level impacts.
- There is limited toxicity information for reptiles and amphibians. The risk to these taxa can be qualitatively compared to birds and mammals and general statements about potential risks to reptiles and amphibians can be made but uncertainties in extrapolating between birds/mammals and reptiles exist as detailed in Section 4.7.7.
- Specific uncertainties that influenced the OU-2 Refined SLERA are briefly described in the following subsections.

4.7.1 Detected Chemicals Lacking ESVs

Some chemicals were detected in the OU-2 Refined SLERA Area that lack ESVs, as indicated in Table 3-2 and Table 4-12. Spatial plots for each detected constituent with no ESV are also provided in Appendix H-1. Those detected chemicals lacking ESVs are:

- General chemistry: bromide, chlorate, chloric acid, chlorine, nitrate, ortho-phosphate, and sulfate
- Metals: sulfur¹⁶
- Pesticides: 2,4-DB, Dicamba, and MCPA
- Total organic halides

A summary of the information available for these constituents lacking ESVs is provided in Table 4-12, including the frequency of detection, 95% UCL, and maximum concentrations. These constituents were initially considered in the screening provided in Section 3 of this report. Since there are no ESVs provided in the multiple sources considered, as described in this OU-2 Refined SLERA, the uncertainty assessment provided in Table 4-12 considered 95% UCL concentrations exceeding background concentrations and a frequency of detection exceeding 10%. The evaluation provided in Table 4-12 also considers soil half-lives, additional toxicity data, if available, and the bioaccumulation potential of the constituent.

¹⁶ While sulfur has similarities with other transition metals, it is a chalcogen and not a true metal.

Several of the constituents that lack an ESV likely do so because they are essential nutrients and are not considered toxic. These include sulfate, nitrate, and sulfur. In addition, there are several constituents detected only one time (total organic halides, MCPA, dicamba, and 2,4-DB). Orthophosphate and sulfur had a detection frequency of 10% or less. Risks to chemicals lacking ESVs cannot be definitively ruled out, but observations for each of these constituents are provided below.

4.7.1.1 General Chemistry

- **Bromide:** Bromide has a detection frequency of 26%. A spatial plot for bromide is provided in Appendix H-1 (Figure H-1a). USEPA conducted a risk assessment of bromide and found that bromide is “practically non-toxic to avian species” with lethal concentration to 50% of the test population (LC50) of > 5,600 mg/kg. USEPA reported LC50s based on oral toxicity to rats (as a surrogate for terrestrial mammals) as >3,900 mg/kg (USEPA 2005b). The maximum concentration of bromide within OU-2 is 7.6 mg/kg. As such, bromide is not expected to contribute to potential risk to reptiles, birds, and mammals that may visit the Site.
- **Chlorate:** Chlorate was only detected in two of the four sampling locations in areas that are currently under pavement or a building (Figure H-1b and Table 4-12). A spatial plot for chlorate is provided in Appendix H-1 (Figure H-1b). In the absence of an ESV, the leach-based soil criterion¹⁷ for chlorate was used in the spatial plot. Using sodium chlorite as a surrogate chemical for chlorate, USEPA 1992 reports an avian LC50 of 2,031 - 18,686 mg/kg and an avian NOEL of 417-10,000 mg/kg. The maximum concentration of chlorate within the OU-2 Refined SLERA Area is 6.3 mg/kg. Sodium chlorate was reported to persist in soil for periods of six months to five years depending on the rate applied, soil type, fertility, organic matter, moisture, and weather conditions (Klingman, 1975). Given the information available on chlorate or surrogate chemicals, chlorate concentrations in OU-2 soils are unlikely to pose a risk to ecological receptors within the OU-2 Refined SLERA Area.
- **Chloric acid and chlorine:** Chloric acid was only detected in 6 of 30 samples collected from the OU-2 Refined SLERA Area. Chlorine was detected in 93% of samples. Spatial plots for chloric acid and chlorine are provided in Appendix H-1 (Figure H-1c and Figure H-1d). The location with the highest concentrations of these constituents is TSB-AR-06. TSB-AR-06 is located in the western portion of Parcel A in an area that has since been remediated or covered in pavement or structures making the soil inaccessible to wildlife (Figure 2-3). Chlorine is not expected to be found in soil since it reacts and volatilizes rapidly. Chlorine is too reactive to be bioavailable from soil, water, or other environmental media (ATSDR 2021). Chloric acid quickly partitions from soil to air and water, with a half-life in the atmosphere of 11 days. Therefore, like chlorine, it is unlikely to be present in soil in significant concentrations even after days or weeks. Chlorine and chloric acid are therefore unlikely to present a risk to terrestrial receptors within the OU-2 Refined SLERA Area.

¹⁷ For detected chemicals lacking ESVs, leach-based soil values were used where these available. Leach-based soil values represent the concentrations of hazardous substances that can remain in the soil on a property such that leaching of hazardous substances into ground water above generic unrestricted potable use standards is prevented.

- Nitrate: A spatial plot for nitrate is provided in Appendix H-1 (Figure H-1e). In the absence of an ESV, the leach-based soil criterion¹⁸ for nitrate was used for comparison in the spatial plot. Nitrate was detected in all samples collected with similar concentrations with the exception of one sample with a maximum concentration of 229 mg/kg located at TSB-AR-11 (Figure 1-1e, Table 3-1). TSB-AR-11 is located in the eastern portion of Parcel A in an area that has since been remediated or covered in pavement or structures making the soil inaccessible to wildlife (Figure 2-3). The 95% UCL concentration is 32.1 mg/kg. Excluding the maximum concentration, the nitrate concentration ranged from 0.33 mg/kg to 36.6 mg/kg. Nitrate has a half-life of 30 days in soil (USEPA 2023) (Table 4-12). Given the time frame of the most recent sample collected (2007), nitrate concentrations are expected to be substantially reduced. In addition, nitrate is a part of the nitrogen cycle and is an essential element for the survival of plants (as well as animals) because of its use in the creation of amino acids, and therefore, the formation of proteins. This is very likely the reason there are no ESVs for nitrate as it is not an inherently toxic chemical. Given the above information, nitrates are not expected to be a risk to terrestrial receptors within the OU-2 Refined SLERA Area.
- Orthophosphate: A spatial plot for ortho-phosphate is provided in Appendix H-1 (Figure H-1f). The detection frequency of ortho-phosphate is 9% with a maximum detected concentration of 2 mg/kg at TSB-AR-11 (Table 3-1). TSB-AR-11 is located in the eastern portion of Parcel A in an area that has since been remediated (Figure 2-3). The 95% UCL concentration is 1.02 mg/kg. The half-life of ortho-phosphate in soil is approximately 30 days (USEPA 2023). The low frequency of ortho-phosphate indicates that this constituent is not ubiquitous throughout the Site and is not expected to contribute significantly to overall risk.
- Sulfate: A spatial plot for sulfate is provided in Appendix H-1 (Figure 1-1g). Sulfate was detected in all samples collected in OU-2 with a maximum concentration of 1,450 mg/kg at TSB-AR-06 (Table 3-1). TSB-AR-06 is located in the western portion of Parcel A in an area that has since been remediated (Figure 2-3). Sulfates have a half-life of approximately 30 days in soil (Table 4-12; USEPA 2023). Given the time frame of the most recent sample collected (2007), sulfate concentrations are expected to be substantially reduced. In addition, sulfate is an essential nutrient and is among the most important macronutrients in cells. Sulfate occurs naturally in soils, sediments, and rocks. Fertilizers are supplemented with sulfate to assist in crop yield. Given the above information, sulfates are not expected to be a risk to terrestrial receptors within the OU-2 Refined SLERA Area.

4.7.1.2 Metals

- Sulfur: The detection frequency of sulfur is 10% with a maximum detected concentration of 1,210 mg/kg. The 95% UCL concentration is 407 mg/kg. The low frequency of detection indicates that this constituent is not ubiquitous throughout the Site and is not expected to contribute significantly to overall risk. In addition, sulfur is an essential plant nutrient necessary for the growth and development of plants. A spatial plot for sulfur is provided in Appendix H-1 (Figure H-1h). As shown

in Table 4-12, the LC50 for birds exposed to sulfur reported by USEPA (1992) was 5,620 mg/kg diet; substantially higher than the maximum concentration reported within OU-2. Concentrations resulting in toxicity is lower for insects and plants but given the low frequency of detection, sulfur is not likely to pose a significant risk to wildlife within the OU-2 Refined SLERA Area.

4.7.1.3 Pesticides

- 2,4-DB, Dicamba, and MCPA: Spatial plots are provided for 2,4-DB, dicamba, and MCPA in Appendix H-1 (Figures 1-1i, 1-1j, and 1-1k, respectively). Each of these chemicals were only sampled once in 1999 at location PC-70, which is the northernmost location in the OU-2 Refined Area. The half-life for the 3 chemicals ranges from 24.5 to 58 days (Table 4-12). As such, the concentrations present during the most recent sampling (1999) are not expected to still be present. In addition, 2,4-DB is not expected to be bioaccumulative (USEPA 2005c). Given the similar chemical structures of dicamba and MCPA to 2,4-DB, they are also not expected to be bioaccumulative. As such, these pesticides are not expected to still be present within the OU-2 Refined SLERA Area.

4.7.1.4 Organic Halides

- Organic Halides: A spatial plot for organic halides is provided in Appendix H-1 (Figure 1-1l). Organic halides were only sampled once in 1999 at location PC-70, which is the northernmost location in the OU-2 Refined Area. A literature review was conducted for organic halides; however, information was unable to be located for this chemical. The chemical is not considered to be bioaccumulative (Figure 4-12). As such, this chemical is not expected to pose a risk to ecological receptors at OU-2.

4.7.2 Detected Chemicals Lacking Species-Specific ESVs

The plant and invertebrate evaluations identified several constituents that do not have ESVs. In addition to the constituents provided in Table 4-2, bis(2-Ethylhexyl) phthalate and acetone lack a plant-specific ESV, summarized below. There are no additional chemicals lacking an invertebrate specific ESV.

- Bis(2-ethylhexyl)phthalate had a detection frequency of 9%, a maximum concentration of 1.0 mg/kg, and a UCL concentration of 0.15 mg/kg. Information from European Chemicals Agency (ECHA 2023a) indicates that this chemical has a half-life of 10 months in soil, a Predicted No Effect Concentration (PNEC) of 13 mg/kg in soil, and a NOEC for terrestrial plants of 130 mg/kg. Both the PNEC and NOEC are at least a magnitude higher than the maximum concentration of bis(2-ethylhexyl)phthalate within OU-2. Given the low frequency and low concentrations of this COPEC, it is not likely to pose a risk to plants within the OU-2 Refined SLERA Area.
- Acetone had a detection frequency of 20%, a maximum concentration of 0.56 mg/kg, and a UCL concentration of 0.0831 mg/kg. Information from ECHA (ECHA 2023b) indicates that this chemical has a PNEC in soil of 29.5 mg/kg and a NOEC of 130 mg/kg, which is higher than the maximum concentration of 0.56 within OU-2 soils. Acetone is a highly volatile chemical that is used as an inert ingredient, a

solvent/cosolvent, in a variety of pesticide products. The volatility rate of acetone from soil depends on the soil characteristics (moisture content, soil porosity) with high volatility rates for dry soil (ATSDR 2022), such as is present in the OU-2 Refined SLERA Area. Acetone is also a metabolic product in living organisms, including terrestrial plants, and is not expected to bioaccumulate or be hazardous to terrestrial plants at low concentrations (Environment Canada 2014). Given the low concentrations of acetone within OU-2, acetone is not expected to pose a risk to terrestrial plants within the OU-2 Refined SLERA Area.

A review of the spatial plots for each of these detected constituents lacking ESVs does not indicate any localized release or specific areas of concern within the OU-2 Refined SLERA Area.

4.7.3 Evaluation of Chemicals with Low Detection Frequencies

All detected chemicals with HQs greater than 1 using maximum concentrations were retained for further evaluation in the OU-2 Refined SLERA regardless of detection frequency. Two chemicals (di-n-butylphthalate and endrin aldehyde) with detection frequencies less than or equal to 5% were retained because they had HQs greater than 1 using maximum soil concentrations. The HQ using the 95% UCL concentration for endrin aldehyde is less than 1, leaving di-n-butylphthalate retained for further evaluation. This chemical is not bioaccumulative; therefore, it is not evaluated in a food web model. The risk to plants and soil invertebrates due to di-n-butylphthalate in soil is evaluated using both the maximum and 95% UCL concentrations. HQs for both plants and invertebrates are below 1 applying the most conservative assumptions (maximum soil concentrations and plant- or invertebrate-specific ESVs versus generic ESVs; Table 4-5 and Table 4-6). Additionally, the spatial plots for these constituents do not suggest a localized release or specific areas of concern within the OU-2 Refined SLERA Area (See Figure 3-3 [endrin aldehyde] and Figure 3-8 [di-n-butylphthalate]). In fact, the location where di-n-butylphthalate exceeds the ESV was covered with pavement after the sample was collected. As such, no localized impacts are expected from these chemicals.

4.7.4 Uncertainties in the Background Evaluation

Appendix tables D-2b, D-2d, and D-2f include several p-values that are equal to 1. In a 1-sided test this implies a strong significant difference between background and Site data, where Site data are lower than background. There are a few locations within the OU-2 Refined SLERA Area where concentrations for some metals are less than the McCollough data from the BRC/TIMET Regional Background Dataset (2007) on which background comparisons are performed. Because these metals had concentrations below the regional background concentrations, they were eliminated from further evaluation. In principle, site concentrations should not be lower than concentrations in a background data set that is perfectly representative of natural site conditions. However, there are several possible explanations for this situation:

- Anthropological influence resulting in metals leaching from the soil matrix. These influences may include acid or solvent dumping during operational periods, or perhaps leaking pipes near the area (e.g., those that transport water back to Las

Vegas from Lake Mead). This has been a working hypothesis of NDEP since approximately 2010.

- Variability between geologic units being sampled (e.g., Site and background data sets from slightly different geological units) resulting in a background data set that approximates but is not perfectly representative of natural Site conditions.
- Natural variability within a single geologic unit resulting (as a result of geologic processes during deposition or reworking of surface soils by wind and water causing minor sorting of sediments) in a background data set that approximates but is not perfectly representative of natural Site conditions.
- Sampling bias, caused by a difference in the number of samples, depth, or distribution of samples, may result in a background data set that approximates, but is not perfectly representative of natural Site conditions.
- Analytical differences between the Site and background investigations may result in observed systematic differences between the data sets.

Despite the few instances where background concentrations in soil were greater than OU-2 soil concentrations, the McCullough data from the BRC/TIMET Regional Background Data Set (2007) approved by NDEP is suitable for use in this refined SLERA. Site concentrations lower than background concentrations are likely caused by combination of natural geologic variability, analytical factors, and sampling bias resulting in a background data set that approximates natural Site conditions but is not perfectly representative. With the natural variability of alluvial geology, even within a single geologic unit, and additional natural variability caused by wind and surface water, it is unlikely to obtain a perfect representation of local background for every relevant subset of data across this study area. Therefore, not every variance between Site and background data must be due to anthropological influence or analytical issues. Regardless of the reasoning, the fact that Site concentrations are lower than background is not a concern regarding remediation decisions. If the working hypothesis of NDEP in the first bullet point listed above is true, the anthropological influences could have implications for potential groundwater transport of chemicals. However, the geochemistry of the OU-1 groundwater is relatively consistent, generally exhibiting oxidizing conditions across the Site. The mechanism for releasing metals from the soil matrix is therefore not clear. Evaluation of deeper soil concentrations and groundwater concentrations is presented in the RI Report for OU-1 and OU-2 (Ramboll 2023) and is outside the scope of this OU-2 Refined SLERA.

As an additional means of confirming that the twelve constituents¹⁸ with background concentrations greater than Site concentrations are present at concentrations that do not pose a potential risk to ecological receptors within OU-2, a summary of risk information for these constituents is provided below in Exhibit 4-13.

Exhibit 4-13. Uncertainty Evaluation for 12 Constituents Detected Less than Background								
Analyte	Units	# Samples	# Detects	% Detects	Max	SLERA Criterion	Source	Max HQ
Arsenic	mg/kg	34	34	100	3.70	18	Eco-SSL Plants	0.2
Beryllium	mg/kg	34	34	100	0.57	21	Eco-SSL Mammal	0.03
Cobalt	mg/kg	34	34	100	7.50	13	Eco-SSL Plants	0.6
Magnesium	mg/kg	34	34	100	9790	NC	--	Det, No ESV
Phosphorous (as P)	mg/kg	30	30	100	1510	NC	--	Det, No ESV
Strontium	mg/kg	34	34	100	204	95	R4 Mammal	2
Zirconium	mg/kg	30	30	100	27	NC	--	Det, No ESV
Radium-226	pci/g	34	34	100	1.21	2	LANL Min NOAEL TRV	0.8
Radium-228	pci/g	34	34	100	2.13	1	LANL Min NOAEL TRV	2
Thorium-228	pci/g	31	30	97	2.17	43	LANL Min NOAEL TRV	0.05
Uranium-235	pci/g	31	8	26	0.02	440	LANL Min NOAEL TRV	0.00005
Uranium-238	pci/g	31	31	100	0.47	400	LANL Min NOAEL TRV	0.001

Notes: ESV Ecological Screening Value, HQ Hazard quotient; NC No criterion

As indicated in Exhibit 4-13:

- Of the twelve chemicals with background concentrations greater than Site concentration, seven of them have maximum HQs less than a value of 1, indicating that these constituents are present in OU-2 soils at concentrations below conservative and protective ESVs.
- One chemical, strontium, has a maximum HQ of 2 and a 95% UCL HQ of 1.6 which suggests that strontium is not a significant contributor to risk within OU-2. Radium-228 has a maximum HQ of 2, also not a significant contributor to risk within OU-2.
- The three remaining constituents do not have ESVs and are described separately below:

¹⁸ The twelve constitutions include: arsenic, beryllium, cobalt, magnesium, phosphorous, strontium, zirconium, radium-226, thorium-228, uranium-23, uranium-235, and uranium-238.

- Magnesium: Toxicity data for exposure of terrestrial receptors to magnesium is not available in the literature. According to the ECHA REACH Database, “magnesium would not be toxic to soil organisms and hence, short-term, and long-term toxicity tests to terrestrial organisms are scientifically unjustified” (ECHA 2023c).
- Zirconium: According to Lenntech (2023), zirconium is unlikely to present a hazard to the environment. While aquatic plants have a rapid uptake of soluble zirconium, land plants have little tendency to adsorb it, and 70% of plants that have been tested showed no zirconium to be present at all. Additionally, the chemical and physical properties of zirconium are similar to those of titanium (Lenntech 2023). Using the titanium ESV for zirconium results in a maximum HQ for zirconium well below a value of 1.
- Phosphorus: In a study on the impacts of nutrient enrichment on invertebrate populations, Nessel et al. (2021) reported that phosphorous enrichment in soil had no significant impact on terrestrial invertebrate abundance or diversity and the abundance of soil nematodes increased with the addition of phosphorus. Nessel et al. (2021) also reported that phosphorous enrichment caused significant increases in the abundance of terrestrial bacterivores and fungivores (Nessel et al. 2021). As such, the presence of phosphorous is not expected to pose a risk to soil microbes or soil invertebrates.

4.7.5 Uncertainties in the Evaluation of DDT and Metabolites

Organochlorine pesticides including DDT and the isomers of DDT, 2,2' and 2,4'-DDD, and 2,2' and 2,4'-DDE, are summed to a DDx value for the evaluation of potential risks related to the chemical mixture, as discussed in Section 2.1.5. Not all locations were analyzed for all isomers. As such, the DDx sums can be comprised of three to five isomers depending on the location. The sum of DDx values, and how they are calculated by location, is provided in Appendix C (Table C-3c). The 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT isomers were analyzed for all samples collected for DDT and metabolite analysis. 2,4'-DDE and 2,4'-DDD were only analyzed in the BEC dataset and were not analyzed in the ENSR 2007 and Kerr-McGee 1998 datasets. 2,4'-DDT was not analyzed at any locations within OU-2. The variability in the DDx isomers is related to the study designs that occurred over time. Because not all isomers are included in every sample, calculating the sum of DDT and metabolites is a potential underestimation of risk given the lack of isomers at any particular location.

4.7.6 Evaluation of Detection Limit Uncertainties

An evaluation of detection limits (i.e., SQLs) for constituents analyzed is also provided in Appendix H-2. Specifically, the ratio of SQLs to ESVs is provided. This ratio is similar to an HQ mathematically, but since the constituent was not actually detected, it is referred to as a ratio for this discussion. The constituents with quantitation limits that exceed ESVs are identified, with the ratios sorted from highest to lowest and showing the constituent detected, the location where it was detected, the SQL for the sample, and the ratio. Overall, the SQLs for constituents were suitable for this OU-2 Refined SLERA, as the ratios for SQLs and ESVs for most constituents not detected were less than 1. The list of constituents not detected with and without ESVs for OU-2 is provided in Appendix H-2 and H-3, respectively.

There are 23 chemicals that were not detected within the OU-2 Refined SLERA Area where their maximum SQL exceed their respective ESVs. Spatial plots are available in Appendix H-2 for those chemicals that were not detected but where the SQLs were greater than ESVs. The ESVs for all 23 chemicals are reported in USEPA Region 4 (2018) and the source of these ESVs are discussed in Section 4.7.6.1 and 4.7.6.2. A review of the spatial plots shows that the locations of these constituents with SQLs greater than ESVs are in Parcels A and B, where the soils have since been remediated and or covered by pavement or structures. As such, these locations are no longer considered to present a potential risk to ecological receptors that may traverse the area.

4.7.6.1 Uncertainties in the Evaluation of Criteria Based on ECOSAR

There are 23 chemicals that were not detected with SQLs that exceed the ESVs (Table 4-2). The ESVs for 22 of these 23 chemicals come from USEPA Region 4 (USEPA Region 4 2018). The basis of the Region 4 ESVs for these 22 chemicals is ecological structure activity relationship (ECOSAR) and the Region 4 soil model. ECOSAR (<https://www.epa.gov/tsca-screening-tools/ecological-structure-activity-relationships-ecosar-predictive-model>) is a model that estimates aquatic toxicity values (for green algae, daphnids, and fathead minnows) for chemicals with no or insufficient animal testing. The relationship of chemical structure to biological activity and toxicity is called a "structure-activity relationship" (SAR). The math applied in ECOSAR uses a Quantitative Structure-Activity Relationship (QSAR) which predicts quantitative toxicological endpoints for three freshwater organisms based solely on chemical structure and water solubility. The Region 4 soil model calculates a soil criterion based on the water quality benchmark from ECOSAR, the soil f_{oc} (assumes 1% soil organic carbon), chemical characteristics, and three soil variables (water content, aeration porosity, and soil bulk density).

There are many uncertainties in this process, which is discussed in Appendix H-5 and summarized below:

- Difference between whatever aquatic organism the QSAR was based on (Region 4 does not specify and has not released the ECOSAR information for the modelled chemicals) and soil invertebrates of interest for the OU-2 Refined SLERA.
- Uncertainties in the specificity and accuracy of the ECOSAR model itself.

While the ECOSAR toxicity values are a useful place to start an investigation of chemicals where there is limited or no toxicity testing data, in general, actual measured toxicity values are less uncertain than those modeled. ECOSAR was designed to process large numbers of chemicals in relatively short timespans to prioritize further testing (Cronin et al. 2003; Sanderson 2003; de Hass et al. 2011; Hulzebos and Posthumus 2003), not for creating environmental criteria. The reason why ECOSAR is not generally used for the creation of criteria is because of the uncertainties inherent in the model. For instance, some of the SARs are based on as few as four chemicals and have an r^2 (r^2 is an estimate of how well one variable predicts another variable, or how well ECOSAR estimated toxicity compared to measured toxicity) value of 0.7 (moderately correlated; Hulzebos and Posthumus, 2019). The USEPA (Office of Pollution Prevention and Toxics, Toxic Substances Control Act, Endocrine Disruptors Screening and Testing Advisory Committee) relies on ECOSAR to help screen chemicals to find those in need of the most urgent testing (Cronin et al. 2003), but

they are not used for the federally promulgated water quality criteria (which are based on extensive biological testing). While ECOSAR is a useful tool to inform subsequent investigations, it should not be relied upon in the absence of supplemental data.

The ECOSAR model has been in a state of continuous improvement for the better part of 25 years. Through the years, many studies have striven to evaluate its usefulness (Kaiser et al. 1999). The initial analysis by Kaiser et al. (1999) was as follows:

"Our concerns with ECOSAR are threefold:

(i) most of the linear correlations developed from the empirical toxicity data are statistically insignificant as they are derived from too few measured data - obvious from correlation coefficients near or at 1.0;

(ii) the statistics stated for many of the equations are highly inflated by including several measurements for the same compound as independent variables within one class of compounds - up to three times the actual number of compounds; and

(iii) the classification of compounds is inconsistent and contains elements of both a chemical nature and the compounds' use - the latter is subject to interpretation and change."

These concerns have not changed in the decades of scientific literature following the Kaiser et al. (1999) analysis, though the underlying data has improved (Hulzebos and Posthumus 2003; Sanderson et al. 2003; Bermúdez-Saldaña et al. 2005; Tunkel et al. 2005; Reuschenbach et al. 2008; Dom et al. 2010; de Hass et al. 2011; Barron et al. 2012; Melnikov et al. 2016; He et al. 2019; Khan et al. 2019, Massarsky et al. 2022—see Appendix H-5 for more details on these studies).

The continuous improvement of ECOSAR is still in progress (Wang et al. 2022; Xu et al. 2022; Shavaliyeva et al. 2022—see Appendix H-5 for more details on these studies). The USEPA Region 4 does not provide their ECOSAR output for external review for the chemicals in their soil criteria based on ECOSAR output. The strength of the toxicity values that depend on that output is unknown and should be treated as a substantial uncertainty.

4.7.6.2 Uncertainty in the USEPA Region 5 ESV

2,4-Dinitrophenol was the only chemical out of 23 chemicals whose ESV was not based on ECOSAR. Although the source of the ESV is from USEPA Region 4 (2018), the USEPA Region 4 guidance document cites EPA Region 5 ESVs from 2003. This guidance document has been archived and is no longer in use.

4.7.7 Uncertainties in the Evaluation of Risk to Reptiles

Potential ecotoxicological risk to reptiles is an emerging concern (Campbell and Campbell 2000; Campbell and Campbell 2002; Doering et al. 2022; Mingo et al. 2016; Sparling et al. 2010; Suter and Maciorowski 2010; Wagner et al. 2015; Weir et al. 2010; Weir et al. 2015; Weir et al. 2016). The current state of the science is limited and uncertain, as stated by the following researchers:

- “The toxicity of most chemicals to reptiles in drylands is virtually unknown.” (Campbell and Campbell 2000)
- “While assessment methods are well developed for some taxa and assemblages such as fish and benthic invertebrates, there are few data and no assessment guidance for others such as amphibians, reptiles, and mollusks.” (Suter and Maciorowski 2010 regarding the future of risk assessment at the USEPA)
- “Toxicity data concerning squamates [scaled reptiles] is scarce and data on effects of pesticides in species’ natural habitats even more so.” (Mingo et al. 2016)
- “Reptiles represent the least-studied group of vertebrates with regards to toxicology” (Doering et al. 2022).

This is due in part to the fact that the United States and European Union do not require reptile testing under current laws (Doering et al, 2022; Suter and Maciorowski 2010; Wagner et al. 2015; Weir et al. 2010). While there has been uptick in reptile ecotoxicological research in the past two decades, the number of high-quality studies are still limited (Kapustka 2008).

In the absence of adequate toxicology information for reptiles, some risk assessments have used bird TRVs. However, birds are warm-blooded animals with faster metabolisms than cold-blooded reptiles (Nagy et al. 1999). This means that per kg BW, birds require more food intake and therefore have higher exposure to constituents of concern. Additionally, many key enzyme systems in reptiles are markedly different than birds and chemicals may react with them differently. Finally, the detoxification process may occur much more slowly in reptiles, which could change or increase toxicity.

Recent literature (Ortiz-Santaliestra et al. 2018; Weir et al. 2010; Weir et al. 2015) indicates that using bird or mammal toxicity information as surrogates for reptiles is not adequately protective of reptiles. Ortiz-Santaliestra et al. (2018) undertook a systematic review of scientific literature to compare pesticide toxicity among mammals, birds, and fish to see which organisms (if any) would serve as valid surrogates for reptiles and amphibians. They filtered the literature to find studies that used the same endpoint, exposure route, length of exposure, and type of ecotoxicological response. They found no statistically significant correlations between bird or mammal and reptile lethal dose for 50% of population (LD50s) for a variety of constituents (n=11-19 constituents, depending on which subset of the data they chose). They also found that reptiles were more sensitive than birds (had lower LD50s) for 5 of 15 constituents. Even applying a 10x uncertainty factor would not have made the LD50s comparable in 4 out of 15 cases. Reptile sensitivity also varied between chemical classes (pyrethroids, organophosphate insecticides, explosives) that was somewhat related to the K_{ow} of the chemical. The authors concluded that “data from terrestrial organisms provide little evidence that surrogates can effectively reflect toxicity in reptiles” (Ortiz-Santaliestra et al. 2018).

Weir et al. (2010, 2015, 2016) has extensively studied ERA of reptiles. They found (Weir et al. 2010) that out of 15 chemicals that had comparable avian and reptile data, the reptiles were more sensitive to 5 of the chemicals. They suspected (Weir et al. 2015 and 2016) that

this was due to reptile dermal uptake, which was likely to be a far greater contributor to exposure in reptiles than in birds.

Given the sparsity of data; lack of adequate standardized toxicity testing protocols; the metabolic differences between birds and reptiles; and extensive literature reviews that indicate that birds (and mammals) are a poor surrogate for reptiles; the science to assess ecotoxicological risks to reptiles is not yet developed enough to draw conclusions regarding the potential risks to reptiles that may be exposed to chemicals within the OU-2 Refined SLERA Area.

4.7.8 Uncertainty Assessment Conclusions

The potential cumulative impacts from the presence of chemicals that were detected at low frequency, in addition to chemicals lacking ESVs (those detected and not detected), were considered when they were present at the same location as other detected COPECs. No specific areas of elevated chemical concentrations were found, suggesting the chemicals detected at low frequency, and the chemicals that lack ESVs, do not present a specific risk to wildlife beyond those possibilities already discussed.

Otherwise, the uncertainties in this OU-2 Refined SLERA are similar to those observed in a typical ERA. There are uncertainties in all ERAs and, when possible, the uncertainties include protective considerations. For most of the uncertainties described in this section, the measures overestimate versus underestimate risk. As such, the uncertainty evaluation conducted as part of this OU-2 Refined SLERA demonstrates that the data are adequate and appropriately support the conclusions drawn in Section 5.

5. OU-2 REFINED SLERA CONCLUSIONS

The objective of this OU-2 Refined SLERA was to determine which one of the following is applicable:

- The available data are adequate to conclude that constituents present from historical manufacturing activities do not pose an unacceptable risk to ecological receptors in the OU-2 Refined SLERA Area, and, therefore, there is no need for additional ERA (i.e., adequate information to conclude that the ecological risks are negligible, and no additional investigation of ecological risk is recommended).
- Estimated ecological risks are not negligible, but the information is insufficient to indicate that adverse ecological effects are occurring. This may require a BERA.
- Constituents associated with historical manufacturing activities within OU-1 that may have migrated to OU-2 have the potential to pose unacceptable risks to ecological resources within the OU-2 Refined SLERA Area (i.e., there are sufficient lines of evidence to document potential or actual adverse ecological effects; recommendations may involve further investigation and/or interim action).
- There is not adequate information to make a risk management decision due to high levels of uncertainty or incomplete information, whereupon the ERA process should continue beyond this screening-level evaluation and a plan to collect additional data should be guided by the OU-2 Refined SLERA.

This OU-2 Refined SLERA was performed in a manner consistent with the approved Work Plan and both USEPA and NDEP guidance. Step 3a of USEPA's Eight Step ERA Process was added to the OU-2 SLERA after it was determined that there were several chemicals that could not be ruled out as potentially contributing to risk and required further evaluation.

A tiered approach was used in this OU-2 Refined SLERA that includes "screening" and "refined" scenarios to evaluate the range of potential risks. The screening steps are conservative analyses designed to examine potential risks in an overly protective fashion. A refined SLERA allows for the refinement of the highly conservative assumptions using available, and often more realistic, toxicological information and parameters. It is conducted in a stepwise fashion starting with the "most conservative" input values and proceeding to the "most realistic" evaluation, as described in Section 4.6.5. The most realistic scenario reports HQs using the most realistic values contained in the food web model. This includes the 95% UCL soil concentrations compared to LOAEL TRVs and species-specific AUFs. The results from the most realistic evaluation should be used to make remedial decisions within the OU-2 Refined SLERA Area because these are the results that most accurately identify potential areas of risk, both spatially and by receptor.

The screening steps in this OU-2 Refined SLERA compared maximum detected concentrations in soil to highly conservative screening criteria and considered background concentrations, where applicable, as well as the frequency of detection, to focus subsequent risk analyses on only the chemicals that require further evaluation. The initial screening evaluation (Tier 1) included 290 chemicals. 209 chemicals were not detected; 79 chemicals had SQLs at or below applicable ESVs and were therefore excluded from further evaluation;

23 chemicals had SQLs above their applicable ESV and were evaluated further; and 107 chemicals had no ESVs and were therefore evaluated as uncertainties. Twenty of the remaining detected chemicals were removed from further evaluation because the maximum HQs for these constituents were less than or equal to 1. Forty-seven chemicals were retained for further evaluation in the Tier 2 screening. Only bioaccumulative chemicals were included in the food web model, with the exception of perchlorate which was also included in the model as a conservative measure, for a total of 5 chemicals.

The information developed during the screening step was not adequate to make a risk assessment for some chemicals in soil. Therefore, the risk evaluation continued to refine the COPECs identified by using more realistic estimates of exposure and considered current land use that would prohibit ecological exposure within the OU-2 Refined SLERA Area. This refined step evaluated risks for the following assessment endpoints:

- Terrestrial plant and terrestrial invertebrate community diversity, structure, and function.
- Mammal and bird population survival and reproductive ability.

5.1 Results for the Assessment of the Plant and Soil Invertebrate Community

The findings from the plant and invertebrate-specific evaluation within the OU-2 Refined SLERA Area are summarized as follows:

- **Plants:** Overall, based on the uncertainty evaluation for those COPECs that lack ESVs, and the HQs for those COPECs with plant ESVs, OU-2 Refined SLERA Area soils do not pose an unacceptable risk to plants, including special status plants, if they are present in the OU-2 Refined SLERA Area in the future. The 95% UCL HQs for all constituents with ESVs are equal to or less than a value of 1.
- **Invertebrates:** Overall, based on the uncertainty evaluation for those COPECs that lack ESVs, and the HQs for those COPECs with invertebrate ESVs, OU-2 soils do not pose an unacceptable risk to soil invertebrates when both the ESVs and RSVs are considered. The only constituent with a 95% UCL HQ greater than 1 is acetone. However, based on the high volatilization rate and low predicted ecotoxicity of acetone described in Section 4.5.3, acetone is not considered to pose an unacceptable risk to soil invertebrates.

5.2 Results for the Assessment of the Bird, Mammal and Reptile Populations

The findings from the food web model for the evaluation of wildlife that may be exposed to chemical constituents within the OU-2 Refined SLERA Area are summarized as follows:

- Chemicals detected in soil are not present at concentrations that pose an unacceptable risk to bird and mammal populations. Using maximum soil concentrations, HQs exceed a value of 1 for lead and dioxins/furans for several insect-eating wildlife. Using 95% UCL soil concentrations, HQs for all chemicals evaluated are less than 1.

- The receptors at greatest risk are insect-eating birds and mammals, reflected by food web modeling for the burrowing owl, American robin, and desert shrew. Maximum NOAEL HQs for these receptors range from 2 to 4. Using the 95% UCL LOAEL HQ (most realistic scenario), the potential risk to all receptors included in the food web model is below 1.
- Overall, soils within the OU-2 Refined SLERA Area do not pose an unacceptable risk to wildlife (birds, mammals, and reptiles) that may be present at the Site.

5.3 OU-2 Refined SLERA Conclusions

Consistent with the first bullet in Section 5, the available data are adequate to conclude that constituents present from historical manufacturing activities (including constituents not linked to historical activities at the NERT Site based on the screening for OU-1-specific constituents of potential concern) do not pose an unacceptable risk to ecological receptors in the OU-2 Refined SLERA Area, and, therefore, there is no need for additional investigation.

Constituents detected in the OU-2 Refined SLERA Area soils do not pose unacceptable risks for:

- The plant and soil invertebrate community;
- Birds and mammals that inhabit or forage in OU-2; and
- Reptiles.

While there are uncertainties in all ERAs, the uncertainties identified for this OU-2 Refined SLERA are not significant and do not lead to data gaps or uncertainties that prevent conclusions from being drawn at this time. The uncertainty evaluation for the OU-2 Refined SLERA Area demonstrates that there are no unacceptable ecological risks related to constituents in OU-2 Refined SLERA Area soils. Therefore, and in accordance with NDEP and USEPA guidance, the available OU-2 Refined SLERA results and data are adequate to inform risk management decisions as part of the Feasibility Study for OU-2. Further ecological risk analysis is unlikely to provide additional and/or differing information that would otherwise alter this conclusion.

6. REFERENCES

- ATSDR (Agency for Toxic Substances and Disease Registry). 2021. Toxicological Profiles Database. <http://www.atsdr.cdc.gov/toxpro2.html>. Accessed May 2021.
- ATSDR. 2022. Toxicological Profile for Acetone. Atlanta, Georgia: United States Department of Health and Human Services, ATSDR. June.
- Baes, C.F., III, R.D. Sharp, A.L. Sjoreen, and R.W. Shor. 1984. A Review and Analysis of Parameters for Assessing Transport of Environmentally Released Radionuclides through Agriculture. Oak Ridge National Laboratory Publication No. 5786.
- Barnhouse, L.W., W.R. Munns, Jr., and M.T. Sorensen (eds). 2008. Population-Level Ecological Risk Assessment. Boca Raton, Florida: SETAC Press/Taylor and Francis.
- Barron, M.G., C.R. Jackson, and J.A. Awkerman. 2012. Evaluation of in silico Development of Aquatic Toxicity Species Sensitivity Distributions. *Aquatic Toxicology* 116–117: 1–7. <https://doi.org/10.1016/j.aquatox.2012.02.006>
- BEC (Basic Environmental Company). 2007a. Phase 2 Sampling and Analysis Plan to Conduct Soil Characterization, Tronox Parcels "A" and "B" Site, Henderson, Nevada (Revision 1). August.
- BEC. 2007b. Technical Memorandum – Data Review for 2007 Tronox Parcels A/B Investigation, BMI Industrial Complex, Clark County, Nevada. December.
- Belfroid, A., J. Meiling, D. Sijm, J. Hermens, W. Seinen, and K. van Gestel. 1994. Uptake of Hydrophobic Halogenated Aromatic Hydrocarbons from Food by Earthworms (*Eisenia andrei*). *Archives of Environmental Contamination Technology* 27: 260–265.
- Belfroid A., W. Scinen, K. van Gestel, J. Hermens, and K. van Leeuwen. 1995. Modeling the Accumulation of Hydrophobic Organic Chemicals in Earthworms. *Environmental Science and Pollution Research* 2(1): 5–15.
- Bermúdez-Saldaña, J. M., L. Escuder-Gilabert, M.J. Medina-Hernández, R.M. Villanueva-Camañas, and S. Sagrado. 2005. Chromatographic Evaluation of the Toxicity in Fish of Pesticides. *Journal of Chromatography B* 814(1): 115–125. <https://doi.org/10.1016/j.jchromb.2004.10.007>
- Beyer, W.N. 1990. Evaluating Soil Contamination (Biological Report 90[2]). Washington, D.C.: United States Department of the Interior, Fish and Wildlife Service.
- Beyer, W.N., G.H. Heinz, and A.W. Redmon-Norwood (eds). 1996. Environmental Contaminants in Wildlife: Interpreting Tissue Concentrations. Boca Raton, Florida: Lewis Publishers.
- Blankenship, A.L., D. Kay, M. Zwiernik, R. Holem, J. Newsted, and M. Hecker. 2008. Toxicity Reference Values for Mink exposed to 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) Equivalents (TEQs). *Ecotoxicology and Environmental Safety* 69: 325–349.
- Borgmann, U., W.P. Norwood, and K.M. Ralph. 1990. Chronic Toxicity and Bioaccumulation of 2,5,2',5' and 3,4,3',4'-Tetrachlorobiphenyl and Aroclor 1242 in the Amphipod (*Hyalella azteca*). *Archives of Environmental Contamination and Toxicology* 19: 558–564.

- BRC/TIMET (Basic Remediation Company and Titanium Metals Corporation). 2007. Background Shallow Soil Summary Report, BMI Complex and Common Areas Vicinity. March 16. NDEP commented May 31, 2007 requested errata pages; Errata submitted June 28, 2007; NDEP approved July 3, 2007; Addendum submitted July 22, 2007. Approved by NDEP on July 26, 2007.
- Bursian, S.J., K.J. Beckett, B. Yamini, P.A. Martin, K. Kannan, K.L. Shields, and F.C. Mohr. 2006. Assessment of Effects in Mink Caused by Consumption of Carp Collected from the Saginaw River, Michigan, USA. *Archives of Environmental Contamination and Toxicology* 50: 614-23.
- Campbell, K.R. and T.S. Campbell. 2000. Lizard Contaminant Data for Ecological Risk Assessment. In G. W. Ware (Ed.), *Reviews of Environmental Contamination and Toxicology* (Vol. 165, pp. 39–116). Springer, New York. https://doi.org/10.1007/978-1-4612-1172-3_2
- Campbell, K.R. and T.S. Campbell. 2002. A Logical Starting Point for Developing Priorities for Lizard and Snake Ecotoxicology: A Review of Available Data. *Environmental Toxicology and Chemistry* 21(5): 894–898. <https://doi.org/10.1002/etc.5620210502>
- CCDCP (Clark County Department of Comprehensive Planning). 2000. Clark County Multiple Species Habitat Conservation Plan and Environmental Impact Statement for Issuance of a Permit to Allow Incidental Take of 79 Species in Clark County, Nevada. September 2000. Appendix A: Ecosystem Analyses.
- CCDCP. 2003. Species Account Manual. Clark County Comprehensive Planning. http://www.clarkcountynv.gov/Depts/dcp/Documents/Library/dcp%20reports/2003/20031100_MSHCPSpeciesAcctManual.pdf.
- Cohen-Barnhouse. A.M., M.J. Zwiernik, J.E. Link, S.D. Fitzgerald, S.W. Kennedy, J.P. Giesy, S. Wiseman, P.D. Jones, J.L. Newsted, D. Kay, and S.J. Bursian. 2011. Developmental and Posthatch Effects of In Ovo Exposure to 2,3,7,8-TCDD, 2,3,4,7,8-PECDF, and 2,3,7,8-TCDF in Japanese Quail (*Coturnix japonica*), Common Pheasant (*Phasianus colchicus*), and White Leghorn Chicken (*Gallus domesticus*) Embryos. *Environmental Toxicology and Chemistry*. 30(7): 1659-1668.
- Cronin, M.T.D., J.D. Walker, J.S. Jaworska, M.H.I. Comber, C.D. Watts, and A.P. Worth. 2003. Use of QSARs in International Decision-Making Frameworks to Predict Ecologic Effects and Environmental Fate of Chemical Substances. *Environmental Health Perspectives* 111(10): 1376–1390. <https://doi.org/10.1289/ehp.5759>
- De Haas, E. M., T. Eikelboom, and T. Bouwman. 2011. Internal and External Validation of the Long-Term QSARs for Neutral Organics to Fish from ECOSARTM. *SAR and QSAR in Environmental Research*, 22(5–6), 545–559. <https://doi.org/10.1080/1062936X.2011.569949>
- Doering, J.A., M. Brinkmann, M. Lucio, S. Stoeck, A. Vien, S. Petersen, T. Rhen, P.D. Jones, M. Hecker, and A. Schroeder, A. 2022. Sensitivity of a Model Reptile, the Common Snapping Turtle (*Chelydra serpentina*), to In Ovo Exposure to 2,3,7,8-Tetrachlorodibenzo- p -Dioxin and Other Dioxin-Like Chemicals. *Environmental Toxicology and Chemistry* 41(1): 175–183. <https://doi.org/10.1002/etc.5252>

- Dom, N., D. Knapen, D. Benoot, I. Nobels, and R. Blust. 2010. Aquatic Multi-Species Acute Toxicity of (Chlorinated) Anilines: Experimental Versus Predicted Data. *Chemosphere* 81(2): 177–186. <https://doi.org/10.1016/j.chemosphere.2010.06.059>
- Ecology & Environmental. 1982. Summary and Interpretation of Environmental Quality Data, BMI Industrial Complex, Henderson Nevada. November.
- Edwards, C.A. and P.J. Bohlen. 1992. The Effects of Toxic Chemicals on Earthworms. *Reviews of Environmental Contamination and Toxicology* 125: 23-9.
- Efroymson, R.A., G.W. Suter II, B.E. Sample, and D.S. Jones. 1997a. Preliminary Remediation Goals for Ecological Endpoints (ES/ER/TM-162/R2).
- Efroymson, R.A., M.E. Will, and G.W. Suter II. 1997b. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision (ES/ER/TM-126/R2).
- Efroymson, R.A., M.E. Will, G.W. Suter II, and A. C. Wooten. 1997c. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Terrestrial Plants: 1997 Revision (ES/ER/TM-85/R2).
- ENSR (ENSR International Corporation). 2005. Conceptual Site Model, Kerr-McGee Facility, Henderson, Nevada, ENSR, Camarillo, California, 04020-023-130. February and August 2005.
- ENSR. 2007. Phase A Source Area Investigation Report, Tronox LLC Facility, Henderson, Nevada. May 1.
- Environment Canada. 2014. Screening Assessment Acetone Chemical Abstracts Service Registry Number 67-64-1 (En14-196/2014E-PDF). September.
- ECHA (European Chemicals Agency). 2023a. "Bis(2-ethylhexyl)phthalate". <https://echa.europa.eu/brief-profile/-/briefprofile/100.003.829>. Accessed February 2023.
- ECHA. 2023b. "Acetone". <https://echa.europa.eu/brief-profile/-/briefprofile/100.000.602>. Accessed February 2023.
- ECHA. 2023c. ECHA REACH database: <http://echa.europa.eu/information-on-chemicals/registeredsubstance>. Accessed August 2023.
- Gasiewicz, T.A., C.J. Elferink, and E.C. Henry. 1991. Characterization of Multiple Forms of the Ah Receptor: Recognition of a Dioxin-Responsive Enhancer Involves Heteromer Formation. *Biochemistry* 30: 2909-16.
- Ghilarov, M.S. and J.B. Byzova. 1961. Influence of chemical forest treatments on soil fauna. *Forest Management*. 10: 58:91.
- Grigoreva, T.G. 1952. The Action of Hexachlorane Introduced into the Soil-on-Soil Fauna. *Dokl Usesoyuz Akad Sel-khoz Nauk Lenina* 17: 16-20.
- Gunthart, E. 1947. The fight against the angels with hexachlorocyclohexane preparation. *Communications of the Swiss Entomological Society* 20: 409-450.

- Hahn, M.E., A. Poland, E. Glover, and J.J. Stegeman. 1994. Photoaffinity Labeling of the Ah Receptor: Phylogenetic Survey of Diverse Vertebrate and Invertebrate species. *Archives of Biochemistry and Biophysics* 310: 218-228.
- He, L., K. Xiao, C. Zhou, G. Li, H. Yang, Z. Li, and J. Cheng. 2019. Insights into Pesticide Toxicity against Aquatic Organism: QSTR models on *Daphnia magna*. *Ecotoxicology and Environmental Safety* 173: 285-292. <https://doi.org/10.1016/j.ecoenv.2019.02.014>
- Hulzebos, E.M. and R. Posthumus. 2003. (Q)SAR: Gatekeepers Against Risk on Chemicals? SAR and QSAR in Environmental Research 14(4): 285-316. <https://doi.org/10.1080/1062936032000101510>
- Kaiser, K.L.E., J.C. Dearden, W. Klein, and T.W. Schultz. 1999. Short Communication: A Note of Caution to Users of ECOSAR. *Water Quality Research Journal* 34(1): 179-182. <https://doi.org/10.2166/wqrj.1999.006>
- Kapustka, L. 2008. Limitations of the Current Practices Used to Perform Ecological Risk Assessment. *Integrated Environmental Assessment and Management* 4(3): 290-98.
- Kay, D., A. Blankenship, M. Zwiernik, J.L. Newsted, P.D. Jones, and J.P. Giesy. 2005. PCDDs and PCDFs in Aquatic and Terrestrial Food Webs of the Tittabawassee River, Michigan, USA. *Organohalogen Compounds* 67: 2130-2133.
- Kerr-McGee (Kerr-McGee Chemical Corporation). 1998. Preliminary Report on a Hydrologic Investigation of Channel-Fill Alluvium at the Pittman Lateral, Henderson, Nevada. October 19.
- Khan, K., D. Baderna, C. Cappelli, C. Toma, A. Lombardo, K. Roy, and E. Benfenati. 2019. Ecotoxicological QSAR Modeling of Organic Compounds Against Fish: Application of Fragment Based Descriptors in Feature Analysis. *Aquatic Toxicology* 212: 162-174. <https://doi.org/10.1016/j.aquatox.2019.05.011>
- Klingman, G.C. and F.M. Ashton. 1975. *Weed Science: Principles and Practices*. p. 274-277. John Wiley and Sons, NY.
- Lipa, J.J. 1958. Effect on Earthworm and Diptera Populations of BHC Dust Applied to Soil. *Nature London* 181:863.
- LANL (Los Alamos National Laboratory). 2020. N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020). <https://www.intellusnm.com/documents/documentlibrary>.
- Lenntech. 2023. Zirconium (Zr) - Chemical properties, Health and Environmental effects (lenntech.com)
- Massarsky, A., M.T. Donnell, E. de Gandiaga, J.S. Kozal, L. Garnick, J.A. Kubitz, S.M. Bartell, and A.D. Monnot. 2022. Critical Evaluation of ECOSAR and E-FAST Platforms to Predict Ecological Risks of PFAS. *Environmental Advances* 8: 100221. <https://doi.org/10.1016/j.envadv.2022.100221>
- Melnikov, F., J. Kostal, A. Voutchkova-Kostal, J.B. Zimmerman, and P. Anastas. 2016. Assessment of Predictive Models for Estimating the Acute Aquatic Toxicity of Organic Chemicals. *Green Chemistry* 18(16): 4432-4445. <https://doi.org/10.1039/C6GC00720A>

- Mingo, V., S. Lötters, and N. Wagner. 2016. Risk of Pesticide Exposure for Reptile Species in the European Union. *Environmental Pollution* 215: 164–169.
<https://doi.org/10.1016/j.envpol.2016.05.011>
- Moore, J.N., M.J. Zwiernik, J.L. Newsted, S.D. Fitzgerald, J.E. Link, P.W. Bradley, D.P. Kay, R.A. Budinsky, J.P. Giesy, and S.J. Bursian. 2011. Effects of Dietary Exposure of Mink (*Mustela vison*) to 2,3,7,8-Tetrachlorodibenzo-P-Dioxin, 2,3,4,7,8-Pentachlorodibenzofuran, and 2,3,7,8-Tetrachlorodibenzofuran on Reproduction and Offspring Viability and Growth. *Environmental Toxicology and Chemistry* 31(2): 360-369.
- Morrison, F.O. 1950. The Toxicity of Hexachlorocyclohexane to Certain Microorganisms, Earthworms and Arthropods. *Ontario Entomological Society Annual Report* 80: 50-57.
- Murray, F.J., F.A. Smith, K.D. Nitschke, C.G. Humiston, R.J. Kociba, and B.A. Schwetz. 1979. Three-Generation Reproduction Study of Rats Given 2,3,7,8-Tetrachlorodibenzo-P-Dioxin (TCDD) in the Diet. *Toxicology and Applied Pharmacology* 50: 241-52.
- Nagy, K. A., I.A. Girard, and T.K. Brown. 1999. Energetics of Free-Ranging Mammals, Reptiles, and Birds. *Annual Review of Nutrition* 19: 247–277.
<https://doi.org/10.1146/annurev.nutr.19.1.247>
- Nessel, Mark P., Theresa Konnovitch, Gustavo, Q. Romero, and Angélica L. González. 2021. Nitrogen and phosphorus enrichment cause declines in invertebrate populations: a global meta-analysis. *Biol Rev Camb Philos Soc.* 2021 Dec;96(6):2617-2637. NDEP (Nevada Division of Environmental Protection). 2006. Screening-Level Ecological Risk Assessment Guidelines for the BMI Complex, Henderson, Nevada. Nevada Division of Environmental Protection Bureau of Corrective Actions. September 28.
- NDEP. 2008a. BMI Plant Sites and Common Areas Projects, Henderson, Nevada: Statistical Analysis Recommendations for Field Duplicates and Field Splits. November 14. NDEP.
- 2008b. Guidance on the Development of Summary Statistics Tables, BMI Complex and Common Areas Projects, Henderson, Nevada. December 10.
- NDEP. 2009a. BMI Plant Sites and Common Areas Project, Henderson, Nevada: Hydrogeologic and Lithologic Nomenclature Unification. January 6.
- NDEP. 2009b. Guidance for Evaluating Radionuclide Data for the BMI Plant Sites and Common Areas Projects, Henderson, Nevada. February 6. NDEP.
- 2009c. Significance Levels for the Gilbert Toolbox of Background Comparison Tests, BMI Plant Sites and Common Areas Projects, Henderson, Nevada. July. (Prepared for NDEP by Neptune and Company).
- NDEP. 2010. Supplemental Guidance for Assessing Data Usability for Environmental Investigations at the BMI Complex and Common Areas in Henderson, Nevada. September.
- NDEP. 2011a. No Further Action Determination – Mohawk Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, Portions of APN Nos. 179-05-501-002, 179-05-301-004 and 179-05-502-001, NDEP Facility ID: H-000688. March 8.
- NDEP. 2011b. Action Memorandum: Removal Actions; Nevada Environmental Response Trust Site; Clark County, Nevada. July 21.

- NDEP. 2013a. No Further Action Determination – Galleria North of ROW Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, APNs 179-05-301-005, and 179-06-301-004, NDEP Facility ID: H-000688. March 11.
- NDEP. 2013b. No Further Action Determination – Phase I Development Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, Portions of APNs 179-05-301-004, 179-05-401-001, 179-06-301-004, and 179-07-501-009, NDEP Facility ID: H-000688. March 27.
- NDEP. 2013c. No Further Action Determination – Galleria Drive Right of Way, BMI Common Areas (Eastside Site), Clark County, Nevada, Portions of APNs 179-05-301-004, 179-05-301-004, 179-05-401-001, 179-06-301-004, and 179-07-501-009, NDEP Facility ID: H-000688. July 31.
- NDEP. 2013d. No Further Action Determination – NERT Parcels A and B, Tronox LLC (TRX) Facility, Nevada Environmental Response Trust (Trust) Property, Clark County, Nevada, Portion of APNs 1781415001, 17812110004, NDEP Facility ID #H-000539. November 26. NDEP. 2013e. No Further Action Determination – Southern RIBS Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, Portions of APNs 160-31-401-003, 160-31-801-003, 160-31-801-002, 179-05-301-004, NDEP Facility ID: H-000688. December 9.
- NDEP. 2015a. No Further Action Determination – Eastside Main Sub-Area. BMI Common Areas (Eastside Site), Clark County, Nevada, APNs 179-06-501-003, 179-06-301-004, 179-07-501-012, 160-31-401-005. NDEP Facility ID: H-000688. January 22.
- NDEP. 2015b. No Further Action Determination – APN 178-11-501-007, BMI Common Areas, Clark County, Nevada, APN #178-11-501-007, NDEP Facility ID: H-000688. July 22.
- NDEP. 2015c. Response to: Refined Screening Level Ecological Risk Assessment Work Plan Revision 2. Nevada Environmental Response Trust Site, Henderson, Nevada. August 14.
- NDEP. 2015d. No Further Action Determination – Western Hook-Development Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, APNs 161-36-201-005, 161-36-101-002, 161-36-301-001, 161-36-301-003, NDEP Facility ID: H-000688. September 28.
- NDEP. 2015e. No Further Action Determination – Parcel 9 South Commercial Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, APNs 178-12-601-010, NDEP Facility ID: H-000688. September 29.
- NDEP. 2015f. No Further Action Determination – Triangle Commercial Sub-Area, BMI Common Areas (Eastside Site), Clark County, Nevada, APNs 179-07-201-006, 179-07-101-005, 179-07-299-002, 179-07-199-001, Portions of APNs 179-06-501-003, 179-07-201-008, NDEP Facility ID: H-000688. September 29.
- NDEP. 2018. Nevada Division of Environmental Protection (NDEP) Response to: Screening-Level Ecological Risk Assessment Work Plan for Operable Unit 2 Revision 1. October 30.
- Neptune and Company. 2017. History of soil background datasets at BMI Complex and Common Areas. December 23.

- NOAA (National Oceanic and Atmospheric Administration). 2008. Screening Quick Reference Tables (SQuiRT). June 2019.
http://response.restoration.noaa.gov/book_shelf/122_NEW-SQuiRTs.pdf.
- NOAA. 2018. Climate Data Online: Las Vegas Weather Station #USW00023169. Data from January 1980 to December 2016. <https://www.ncdc.noaa.gov/cdo-web/>. Accessed April 26, 2018.
- Northgate (Northgate Environmental Management, Inc.). 2014. Post-remediation Screening Health Risk Assessment Report for Parcels C, D, F, G, and H, Revision 3, Henderson, Nevada. June 19. NDEP responded May 6, 2015.
- Nosek, J.A., S.R. Craven, J.R. Sullivan, S.S. Hurley, and R.E. Peterson. 1992a. Toxicity and Reproductive Effects of 2,3,7,8-Tetrachlorodibenzo-P-Dioxin in Ring-Necked Pheasant Hens. *Journal of Toxicology and Environmental Health* 35:187-98.
- Nosek, J.A., S.R. Craven, J.R. Sullivan, J.R. Olson, and R.E. Peterson. 1992b. Metabolism and Disposition of 2,3,7,8-Tetrachlorodibenzo-P-Dioxin in Ring-Necked Pheasant Hens, Chicks, and Eggs. *Journal of Toxicology and Environmental Health* 35:153-64.
- Nosek, J.A., J.R. Sullivan, S.R. Craven, A. Gendron-Fitzpatrick, and R.E. Peterson. 1993. Embryotoxicity of 2,3,7,8-Tetrachlorodibenzo-P-Dioxin in the Ring-Necked Pheasant. *Environmental Toxicology and Chemistry* 12: 1215-22.
- Novais, S.C., A.M.V.M. Soares, and M.J.B. Amorim. 2010. Can Avoidance in *Enchytraeus albidus* be used as a Screening Parameter for Pesticides Testing? *Chemosphere* 79(2): 233-237.
- ORNL (Oak Ridge National Laboratory). 1994. Estimating Exposure of Terrestrial Wildlife to Contaminants (ES/ER/TM-125). Oak Ridge, Tennessee: ORNL, Environmental Sciences Division. <https://rais.ornl.gov/documents/tm125.pdf>
- ORNL. 2009. ORNL Risk Assessment Information System (RAIS) database. March 2012
http://rais.ornl.gov/tox/tox_values.shtml.
- Ortiz-Santaliestra, M.E., J.P. Maia, A. Egea-Serrano, and I. Lopes. 2018. Validity of Fish, Birds and Mammals as Surrogates for Amphibians and Reptiles in Pesticide Toxicity Assessment. *Ecotoxicology* 27(7): 819–833. <https://doi.org/10.1007/s10646-018-1911-y>
- Peterson, R.T. and M. DiGiorgio. 2010. Peterson Field Guide to Birds of Western North America.
- Polivka, J.B. 1951. Effect of Insecticides upon Earthworm Populations. *Ohio Journal of Science* 51: 195-196.
- Prisyaznyuk, A.A. 1950. Use of 666 for the Control of Chafer Grubs. *Agrobiologia* 5: 141-142.
- R Core Team. 2019. R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>
- Ramboll Environ (Ramboll Environ US Corporation). 2015. OU-1 Refined Screening-Level Ecological Risk Assessment (SLERA) Work Plan, Revision 2; Nevada Environmental

Response Trust Site, Henderson, Nevada. July 6. Approved by NDEP on August 15, 2015.

Ramboll Environ. 2016. Technical Memorandum: Remedial Investigation Data Evaluation, Nevada Environmental Response Trust Site, Henderson, Nevada. May 2. Initial NDEP comment letter issued on July 13, 2016. Ramboll Environ provided a response to comments (RTC) letter on August 12, 2016. Approved by NDEP on August 23, 2016.

Ramboll (Ramboll US Corporation). 2018. Screening-Level Ecological Risk Assessment Work Plan for Operable Unit 2, Nevada Environmental Response Trust Site, Henderson, Nevada, Revision 1. September 28. Approved by NDEP on October 30, 2018.

Ramboll (Ramboll US Consulting Inc.). 2023. Remedial Investigation Report for OU-1 and OU-2, Revision 1; Nevada Environmental Response Trust Site, Henderson, Nevada. August 15. Under NDEP review.

Reuschenbach, P., M. Silvani, M. Dammann, D. Warnecke, and T. Knacker. 2008. ECOSAR Model Performance with a Large Test Set of Industrial Chemicals. *Chemosphere* 71(10): 1986–1995. <https://doi.org/10.1016/j.chemosphere.2007.12.006>

Reynolds, John. 2015. Reynolds, J.W. 2015. A checklist by counties of earthworms (Oligochaeta: Lumbricidae) in Nevada, USA. *Megadrilogica*. 17. 105-112.

Richter G. 1953. Die Auswirkung von Insektiziden auf die terricole Makrofauna. *Nachrbl deut Pflanzenschutzdienst Berlin* 7: 61-72.

Sample, B.E., D.M. Opresko, and G.W. Suter II. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision (ES/ER/TM-86/R3). Oak Ridge, Tennessee: Risk Assessment Program, Health Sciences Research Division. June.

Sample, B.E., M.S. Aplin, R.A. Efroymsen, G.W. Suter II, and C.J.E. Welsh. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife Contaminants (ORNL/TM-13391). Oak Ridge, Tennessee: ORNL, Environmental Sciences Division. October.

Sanderson, H. 2003. Probabilistic Hazard Assessment of Environmentally Occurring Pharmaceuticals Toxicity to Fish, Daphnids and Algae by ECOSAR screening. *Toxicology Letters* 144(3): 383–395. [https://doi.org/10.1016/S0378-4274\(03\)00257-1](https://doi.org/10.1016/S0378-4274(03)00257-1)

Shavaliyeva, G., S. Papadokonstantakis, and G. Peters. 2022. Prior Knowledge for Predictive Modeling: The Case of Acute Aquatic Toxicity. *Journal of Chemical Information and Modeling* 62(17): 4018–4031. <https://doi.org/10.1021/acs.jcim.1c01079>

Shevenell, L., C.D. Henry, and L. Christensen. 1996. Assessing the relative potential of abandoned mine sites in Clark County, Nevada to degrade water quality: Geographic Information Systems in Environmental Resource Management, Proceedings of a Specialty Conference Sponsored by the Air and Waste Management Association, Reno, Nevada, March 13-15, 1996. pgs 267-278.

Sparling, D.W., G. Linder, and C.A. Bishop. 2000. *Ecotoxicology of Amphibians and Reptiles* (SETAC Technical Publication Series).

Streit, B. 1992. Bioaccumulation processes in ecosystems. *Experientia*, 48(10), 955–970.

- Suter, G.W. and C.L. Tsao. 1996. Toxicological Benchmarks for Screening Potential Contaminants of Concern for Effects on Aquatic Biota: 1996 Revision (ES/ER/TM-96/R2). Oak Ridge, Tennessee: ORNL.
- Suter, G.W. and A.F. Maciorowski. 2010. The Future of Ecological Assessment at the U.S. Environmental Protection Agency. *Human and Ecological Risk Assessment: An International Journal*, 16(6), 1221-1226.
<https://doi.org/10.1080/10807039.2010.526461>
- Travis, C.C. and A.D. Arms. 1988. Bioconcentration of Organics in Beef, Milk, and Vegetation. *Environmental Science and Technology*. 22(3):271-274.
- Tunkel, J., K. Mayo, C. Austin, A. Hickerson, and P. Howard. 2005. Practical Considerations on the Use of Predictive Models for Regulatory Purposes. *Environmental Science & Technology* 39(7): 2188-2199. <https://doi.org/10.1021/es049220t>
- USACHPPM (United States Army Center for Health Promotion and Preventive Medicine). 2004. Development of Terrestrial Exposure and Bioaccumulation Information for the Army Risk Assessment Modeling System. Contract No. DAAD050-00-P-8365.
- USACHPPM. 2007. Wildlife Toxicity Assessment for Perchlorate (USACHPPM Document No. 87-MA02T6-05D). February.
- USEPA (United States Environmental Protection Agency). 1989. Risk Assessment Methodology Environmental Impact Statement for NESHAPS Radionuclides Volume 1. Background Information Document (EPA 520/1-89-005). September.
- USEPA. 1992a. Guidance for Data Usability in Risk Assessment (Part A), Final. Office of Emergency and Remedial Response. April.
<http://www.epa.gov/oswer/riskassessment/datause/parta.htm>.
- USEPA. 1992b. Guidance for Data Usability in Risk Assessment (Part B), Final. Office of Emergency and Remedial Response. April.
<http://www.epa.gov/oswer/riskassessment/datause/partb.htm>
- USEPA. 1992c. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database [EEDB]). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.
- USEPA. 1993. Wildlife Exposure Factors Handbook (EPA/600/R-93/187). Washington, D.C.: USEPA, Office of Research and Development. December.
- USEPA. 1994. Eco-Update: Selecting and Using Reference Information in Superfund Ecological Risk Assessments (EPA 540-F-94-050 PB94-963319). *Intermittent Bulletin* 2(4). September.
- USEPA. 1995. Great Lakes Water Quality Initiative Criteria Documents for the Protection of Wildlife: DDT; Mercury; 2,3,7,8-TCDD; PCBs (EPA/820/B-95/008). Washington, D.C.: USEPA, Office of Water. March.
- USEPA. 1997. Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments. Interim Final (EPA 540-R-97-006). Edison, New Jersey: USEPA, Solid Waste and Emergency Response. June.

- USEPA. 1998. Guidelines for Ecological Assessment. Office of Research and Development (EPA/630/R-95/002FA). April.
- USEPA. 1999. Ecological Risk Assessment and Management Principles for Superfund Sites. <https://www.epa.gov/risk/ecological-risk-assessment-and-risk-management-principles-superfund-sites-october-1999>
- USEPA 2000a. Bioaccumulation Testing and Interpretation for The Purpose of Sediment Quality Assessment Status and Needs (EPA-823-R-00-001). February.
- USEPA. 2000b. Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds: Science Advisory Board (EPA/600/P-00/001(ab-ad,be,ag)). Washington, D.C.: USEPA.
- USEPA. 2001. ECO-Update: Role of Screening-level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments. <http://www.epa.gov/oswer/riskassessment/ecoup/pdf/slera0601.pdf>.
- USEPA. 2002. Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites (EPA 540-R-01-003). Washington, D.C.: USEPA, Office of Emergency and Remedial Response. September.
- USEPA. 2003. Generic Ecological Assessment Endpoints (GEAEs) for Ecological Risk Assessment. EPA/630/P-02/004F. <http://cfpub2.epa.gov/ncea/cfm/recordisplay.cfm?deid=55131>.
- USEPA. 2004. Risk Assessment Principles and Practices. EPA/100/B-04/001. March.
- USEPA. 2005a. Reassessment of One Exemption from the Requirement of Tolerance for Acetone. Action Memorandum. June 13.
- USEPA. 2005b. Ecological Hazard and Environmental Risk Assessment of Bromine and Sodium Bromide for the Registration Eligibility Decision (RED) Document.
- USEPA. 2005c. EPA R.E.D. Facts - 2,4-DB (EPA-738-F-05-001). March 2005. https://www3.epa.gov/pesticides/chem_search/reg_actions/reregistration/fs_PC-030801_1-Mar-05.pdf.
- USEPA. 2007a. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-1 Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. Revised April 2007.
- USEPA. 2007b. Ecological Soil Screening Levels. Last accessed August 2023. [Interim Ecological Soil Screening Level Documents | US EPA](#)
- USEPA. 2007c. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-5 Eco-SSL Standard Operating Procedure #6: Derivation of Wildlife Toxicity Reference Value. OSWER Directive 9285.7-55. Revised June 2007.
- USEPA. 2008. ECO Update/Ground Water Forum Issue Paper, Evaluating Ground-Water/Surface-Water Transition Zones in Ecological Risk Assessments (EPA-540-R-06-07). USEPA, Office of Solid Waste and Emergency Response. July.
- USEPA. 2015. Determination of the Biologically Relevant Sampling Depth for Terrestrial and Aquatic Ecological Risk Assessments (EPA/600/R-15/176). Cincinnati, Ohio: USEPA,

- Office of Research and Development, National Center for Environmental Assessment. Ecological Risk Assessment Support Center. October.
- USEPA. 2016. Weight of Evidence in Ecological Risk Assessment (EPA/100/R-16/001). USEPA, Washington, D.C.: USEPA, Risk Assessment Forum. December.
- USEPA. 2022. ECOTOX Database. <http://cfpub.epa.gov/ecotox/>. Last updated: December 15, 2022.
- USEPA. 2023. Estimation Programs Interface Suite™ for Microsoft® Windows. Washington, DC: United States Environmental Protection Agency.
- USEPA Region 4. 2018. Region ERA Supplemental Guidance. March 2018 Update. Scientific Support Section Superfund Division. https://www.epa.gov/sites/production/files/2015-09/documents/r4_era_guidance_document_draft_final_8-25-2015.pdf
- USEPA Region 6. 1999. Screening-Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities (EPA530-D-99-001A). USEPA, Office of Solid Waste and Emergency Response. August.
- USFWS (United States Fish and Wildlife Service). 2014. Endangered Species. October. <http://www.fws.gov/endangered/what-we-do/critical-habitats-faq.html>.
- Van den Berg, M., L.S. Birnbaum, B.T.C. Bosveld, B. Brunström, P. Cook, M. Feeley, J.P. Giesy, A. Hanberg, R. Hasegawa, S.W. Kennedy, T. Kubiak, J.C. Larsen, F.X.R. van Leeuwen, A.K.D. Liem, C. Nolt, R.E. Peterson, L. Poellinger, S. Safe, D. Schrenk, D. Tillitt, M. Tysklind, M. Younes, F. Waern, and T. Zacharewski. 1998. Toxic Equivalency Factors (TEFs) for PCBs, PCDDs, PCDFs for humans and wildlife. *Environmental Health Perspective* 106(12): 775-792.
- Van den Berg, M., L.S. Birnbaum, M. Denison, M. DeVito, W. Farland, M. Feeley, H. Fiedler, H. Hakansson, A. Hanberg, L. Haws, M. Rose, S. Safe, D. Schrenk, C. Tohyama, A. Tritscher, J. Tuomisto, M. Tysklind, N. Walker, and R.E. Peterson. 2006. The 2005 World Health Organization re-evaluation of human and mammalian toxic equivalency factors for dioxins and dioxin-like compounds. *Toxicological Sciences* 93(2): 223-241.
- Wagner, N., V. Mingo, U. Schulte, and S. Lötters. 2015. Risk Evaluation of Pesticide Use to Protected European Reptile Species. *Biological Conservation* 191: 667-673. <https://doi.org/10.1016/j.biocon.2015.08.002>
- Wang, X., F. Li, J. Chen, Y. Teng, C. Ji, and H. Wu. 2022. Critical Features Identification for Chemical Chronic Toxicity based on Mechanistic Forecast Models. *Environmental Pollution* 307: 119584. <https://doi.org/10.1016/j.envpol.2022.119584>
- Weber, G. 1953. The macrofauna of light and heavy airable soil and their influence by pesticides. *Z Pflanzennahr Dung* 61: 107-118.
- Weir, S.M., J.G. Suski, and C.J. Salice. 2010. Ecological Risk of Anthropogenic Pollutants to Reptiles: Evaluating Assumptions of Sensitivity and Exposure. *Environmental Pollution* 158(12): 3596-3606. <https://doi.org/10.1016/j.envpol.2010.08.011>
- Weir, S.M., L.G. Talent, T.A. Anderson, and C.J. Salice. 2016. Insights into Reptile Dermal Contaminant Exposure: Reptile Skin Permeability to Pesticides. *Chemosphere* 154: 17-22. <https://doi.org/10.1016/j.chemosphere.2016.03.084>

- Weir, S. M., S. Yu, L.G. Talent, J.D. Maul, T.A. Anderson, and C.J. Salice. 2015. Improving Reptile Ecological Risk Assessment: Oral and Dermal Toxicity of Pesticides to a Common Lizard Species (*Sceloporus occidentalis*). *Environmental Toxicology and Chemistry* 34(8): 1778–1786. <https://doi.org/10.1002/etc.2975>
- West, C., G. Ankley, J. Nichols, G. Elonen, and D. Nessa. 1997. Toxicity and Bioaccumulation of 2,3,7,8-Tetrachlorodibenzo-p-dioxin in Long-Term Tests with the Freshwater Benthic Invertebrates *Chironomus tentans* and *Lumbriculus variegatus*. *Environmental Toxicology and Chemistry* 16: 1287-1294.
- Xu, M., H. Yang, G. Liu, Y. Tang, and W. Li. 2022. In Silico Prediction of Chemical Aquatic Toxicity by Multiple Machine Learning and Deep Learning Approaches. *Journal of Applied Toxicology* 42(11): 1766–1776. <https://doi.org/10.1002/jat.4354>
- Young, A.L., L.G. Cockerham, and C.E. Thalken. 1987. A Long-Term Study of Ecosystem Contamination with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Chemosphere* 16(8-9): 1791–1815.
- Zwiernik, M.J., K.J. Beckett, S.J. Bursian, D.P. Kay, R.R. Holem, J.N. Moore, B. Yamini, and J.P. Giesy. 2009. Chronic Effects of Polychlorinated Dibenzofurans on Mink in Laboratory and Field Environments. *Integrated Environmental Assessment and Management* 5: 291-301.

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
Nevada Environmental Response Trust Site
Henderson, Nevada

TABLES

**TABLE 2-1. Threatened and Endangered Species for Clark County, Nevada
Nevada Environmental Response Trust Site
Henderson, Nevada**

Organism Group	Listing Category	Species Common Name	Scientific Name
Amphibian			
	C	Relict leopard frog	<i>Rana onca</i>
Birds			
	E	Southwestern willow flycatcher ●	<i>Empidonax traillii extimus</i>
	PT	Yellow-billed cuckoo (Western U.S. Distinct Population Segment)	<i>Coccyzus americanus</i>
	E	Yuma clapper rail	<i>Rallus longirostris yumanensis</i>
Invertebrate			
	E	Mt. Charleston blue butterfly	<i>Icaricia shasta charlestonensis</i>
Fishes			
	E	Bonytail chub ●	<i>Gila elegans</i>
	E	Colorado pikeminnow *	<i>Ptychocheilus lucius</i>
	E	Humpback chub *	<i>Gila cypha</i>
	T	Lahontan cutthroat trout	<i>Oncorhynchus clarkii henshawi</i>
	E	Moapa dace	<i>Moapa coriacea</i>
	E	Pahrump poolfish	<i>Empetrichthys latos</i>
	E	Razorback sucker ●	<i>Xyrauchen texanus</i>
	E	Virgin River chub + ●	<i>Gila seminuda</i>
	E	Woundfin ●	<i>Plagopterus argentissimus</i>
Plant			
	C	Las Vegas Buckwheat	<i>Eriogonum corymbosum var. nilsil</i>
Reptile			
	T	Desert tortoise (Mojave population) ●	<i>Gopherus agassizii</i>

Notes:

- = Designated Critical Habitat in Clark County
- * = Believed extirpated from Nevada
- + = Endangered only in the Virgin River; Muddy River population is a sensitive species.
- C = Candidate
- E = Endangered
- P = Proposed listing
- T = Threatened

References:

Nevada Fish & Wildlife Office. 2016. Nevada's Protected Species by County.
http://www.fws.gov/nevada/protected_species/species_by_county.html (Last updated June 29, 2016; Accessed April 20, 2018).

**TABLE 2-2. Chemical Classes Analyzed in Soil in the OU-2 Refined SLERA Area
Nevada Environmental Response Trust Site
Henderson, Nevada**

Groups
Dioxins/Furans
Explosives
Metals
Organic Halides
Organochlorine Pesticides
Organophosphates Pesticides
Other
Polychlorinated Biphenyls
Polycyclic Aromatic Hydrocarbons
Radium Compounds
Semivolatile Organic Compounds
Total Petroleum Hydrocarbons
Volatile Organic Compounds

Notes:

Any chemical where a chemical group could not be decided was assigned "Other" as a group.

OU-2 = Operable Unit 2

SLERA = Screening level ecological risk assessment

TABLE 2-3. List of Chemicals for which Names and/or CASRN Numbers were Standardized for Use in the ERA Process Nevada Environmental Response Trust Site Henderson, Nevada

ORIGINAL			STANDARDIZED			
CASRN	CHEMICAL NAME		CASRN	CHEMICAL NAME	CHEM GROUP	CHANGE TYPE
OCDD	Octachlorodibenzodioxin	3268-87-9	1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	Dioxins	CASRN edited to be numeric, and chemical name standardized	
OCDF	Octachlorodibenzofuran	39001-02-0	1,2,3,4,5,6,7,8-Octachlorodibenzofuran	Dioxins	CASRN edited to be numeric, and chemical name standardized	
ALK	Alkalinity	ALKA	Alkalinity (as CaCO3)	General Chemistry	CASRN and name standardized	
7664-41-7[0]	Ammonia (as N)	7664-41-7	Ammonia (as N)	General Chemistry	CASRN Changed	
7790-93-4	Chlorate	7790-93-4	Chloric acid	General Chemistry	CASRN from original data is for chloric acid; therefore, chemical name was changed to chloric acid	
%MOISTURE	Percent Moisture	MOIST	Moisture	General Chemistry	CASRN and Name Standardized	
14797-55-8	Nitrate (as N)	14797-55-8_N	Nitrate (as N)	General Chemistry	CASRN edited for consistency with database (Added "_N" to end of number).	
14797-65-0	Nitrite	14797-65-0	Nitrite (as N)	General Chemistry	Chemical name standardized	
O-PO4	Orthophosphate as P	11-36-9	ortho-Phosphate	General Chemistry	CASRN edited to be numeric, and chemical name standardized	
18540-29-9	Chromium (VI)	18540-29-9	Chromium VI	Metals	Chemical name standardized	
7723-14-0	Phosphorus (as P)	7723-14-0	Phosphorous (as P)	Metals	Chemical name standardized	
U-Total	Uranium (total)	7440-61-1	Uranium	Metals	CASRN edited to be numeric, and chemical name standardized	
72-54-8	4,4-DDD	72-54-8	4,4'-DDD	OCPs	Chemical name standardized	
72-55-9	4,4-DDE	72-55-9	4,4'-DDE	OCPs	Chemical name standardized	
50-29-3	4,4-DDT	50-29-3	4,4'-DDT	OCPs	Chemical name standardized	
57-74-9	Chlordane	57-74-9	Chlordane (total)	OCPs	Chemical name standardized	
58-89-9	Lindane	58-89-9	gamma-BHC	OCPs	Chemical name standardized	
53-70-3	Dibenzo(a,h)anthracene	53-70-3	Dibenz(a,h)anthracene	PAHs	Chemical name standardized	
U-234	URANIUM-233/234	U-234	Uranium-234	RAD	Chemical name standardized	
U-234	URANIUM-233/234	U-234	Uranium-234	RAD	Chemical name standardized	
U-235	URANIUM-235/236	U-235	Uranium-235	RAD	Chemical name standardized	
U-235	URANIUM-235/236	U-235	Uranium-235	RAD	Chemical name standardized	
101-55-3	4-Bromophenyl phenyl ether	101-55-3	4-Bromophenyl-phenyl ether	SVOCs	Chemical name standardized	
7005-72-3	4-Chlorophenyl phenyl ether	7005-72-3	4-Chlorophenyl-phenyl ether	SVOCs	Chemical name standardized	
85-68-7	Benzyl butyl phthalate	85-68-7	Butylbenzylphthalate	SVOCs	Chemical name standardized	
111-91-1	bis(2-Chloroethoxy) methane	111-91-1	bis(2-Chloroethoxy)methane	SVOCs	Chemical name standardized	
108-60-1	bis(2-Chloroisopropyl) ether	108-60-1	bis(2-Chloro-1-methylethyl) ether	SVOCs	Chemical name standardized	
117-81-7	bis(2-Ethylhexyl) phthalate	117-81-7	bis(2-Ethylhexyl)phthalate	SVOCs	Chemical name standardized	
84-74-2	Dibutyl phthalate	84-74-2	Di-n-butylphthalate	SVOCs	Chemical name standardized	
84-66-2	Diethyl phthalate	84-66-2	Diethylphthalate	SVOCs	Chemical name standardized	
131-11-3	Dimethyl phthalate	131-11-3	Dimethylphthalate	SVOCs	Chemical name standardized	
117-84-0	Di-n-octyl phthalate	117-84-0	Di-n-octylphthalate	SVOCs	Chemical name standardized	
87-68-3	Hexachloro-1,3-butadiene	87-68-3	Hexachlorobutadiene	SVOCs	Chemical name standardized	

**TABLE 2-3. List of Chemicals for which Names and/or CASRN Numbers were Standardized for Use in the ERA Process
Nevada Environmental Response Trust Site
Henderson, Nevada**

ORIGINAL			STANDARDIZED			
CASRN	CHEMICAL NAME		CASRN	CHEMICAL NAME	CHEM GROUP	CHANGE TYPE
621-64-7	N-nitrosodi-n-propylamine	621-64-7	n-Nitroso-di-n-propylamine	SVOCs	Chemical name standardized	
95-48-7	o-Cresol	95-48-7	2-Methylphenol	SVOCs	Chemical name standardized	
106-47-8	p-Chloroaniline	106-47-8	4-Chloroaniline	SVOCs	Chemical name standardized	
100-01-6	p-Nitroaniline	100-01-6	4-Nitroaniline	SVOCs	Chemical name standardized	
Q796	Gasoline Range Organics	TPH-gasoline	Total petroleum hydrocarbon-gasoline	TPH	Text CASRN was standardized, and chemical name was standardized	
Q937	HEM Oil/Grease	TPH-MOTOR	Oil Range Organics	TPH	Text CASRN was standardized, and chemical name was standardized	
Q1250	n-Hexane Extractable Material, Silica Gel Treated	TPH-MOTOR	Oil Range Organics	TPH	Text CASRN was standardized, and chemical name was standardized	
Q797	TPH (as Diesel)	TPH-diesel	Total petroleum hydrocarbon-diesel	TPH	Text CASRN was standardized, and chemical name was standardized	
75-35-4	1,1-Dichloroethylene	75-35-4	1,1-Dichloroethene	VOCs	Chemical name standardized	
96-12-8	1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	1,2-Dibromo-3-chloropropane	VOCs	Chemical name standardized	
108-70-3	1,3,5- Trichlorobenzene	108-70-3	1,3,5-Trichlorobenzene	VOCs	Chemical name standardized	
135-98-8	2-Phenylbutane	135-98-8	sec-Butylbenzene	VOCs	Chemical name standardized	
75-69-4	CFC-11	75-69-4	Trichlorofluoromethane	VOCs	Chemical name standardized	
75-71-8	CFC-12	75-71-8	Dichlorodifluoromethane	VOCs	Chemical name standardized	
74-97-5	Chlorobromomethane	74-97-5	Bromochloromethane	VOCs	Chemical name standardized	
124-48-1	Chlorodibromomethane	124-48-1	Dibromochloromethane	VOCs	Chemical name standardized	
156-59-2	cis-1,2-Dichloroethylene	156-59-2	cis-1,2-Dichloroethene	VOCs	Chemical name standardized	
10061-01-5	cis-1,3-Dichloropropylene	10061-01-5	cis-1,3-Dichloropropene	VOCs	Chemical name standardized	
99-87-6	Cymene	99-87-6	p-Cymene	VOCs	Chemical name standardized	
75-09-2	Dichloromethane	75-09-2	Methylene Chloride	VOCs	Chemical name standardized	
100-41-4	Ethylbenzene	100-41-4	Ethyl benzene	VOCs	Chemical name standardized	
591-76-4	Hexane, 2-methyl-	591-76-4	2-Methyl-Hexane	VOCs	Chemical name standardized	
98-82-8	Isopropylbenzene	98-82-8	Cumene	VOCs	Chemical name standardized	
78-93-3	Methyl ethyl ketone	78-93-3	2-Butanone	VOCs	Chemical name standardized	
108-10-1	Methyl isobutyl ketone	108-10-1	4-Methyl-2-pentanone	VOCs	Chemical name standardized	
591-78-6	Methyl n-butyl ketone	591-78-6	2-Hexanone	VOCs	Chemical name standardized	
1634-04-4	MTBE (Methyl tert-butyl ether)	1634-04-4	Methyl tert-butyl ether	VOCs	Chemical name standardized	
104-51-8	n-Butyl benzene	104-51-8	n-Butylbenzene	VOCs	Chemical name standardized	
103-65-1	n-Propyl benzene	103-65-1	n-Propylbenzene	VOCs	Chemical name standardized	
100-42-5	Styrene (monomer)	100-42-5	Styrene	VOCs	Chemical name standardized	
98-06-6	tert-Butyl benzene	98-06-6	tert-Butylbenzene	VOCs	Chemical name standardized	
127-18-4	Tetrachloroethylene	127-18-4	Tetrachloroethene	VOCs	Chemical name standardized	
156-60-5	trans-1,2-Dichloroethylene	156-60-5	trans-1,2-Dichloroethene	VOCs	Chemical name standardized	
10061-02-6	trans-1,3-Dichloropropylene	10061-02-6	trans-1,3-Dichloropropene	VOCs	Chemical name standardized	
75-25-2	Tribromomethane	75-25-2	Bromoform	VOCs	Chemical name standardized	
79-01-6	Trichloroethylene	79-01-6	Trichloroethene	VOCs	Chemical name standardized	

**TABLE 2-3. List of Chemicals for which Names and/or CASRN Numbers were Standardized for Use in the ERA Process
Nevada Environmental Response Trust Site
Henderson, Nevada**

Notes:

BHC = Hexachlorocyclohexane

CaCO₃ = Calcium carbonate

CASRN = Chemical Abstract Service Registration Number

DDD = Dichlorodiphenyldichloroethane

DDE = Dichlorodiphenyldichloroethylene

DDT = Dichlorodiphenyltrichloroethane

ERA = Ecological risk assessment

N = Nitrogen

OCPs = Organochlorine pesticides

P = Phosphorous

PAHs = Polycyclic aromatic hydrocarbons

RAD = Radionuclide compounds

SVOCs = Semivolatile organic compounds

TPH = Total petroleum hydrocarbons

VOCs = Volatile organic compounds

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earthworms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
General Chemistry	Ammonia	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Bromide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Bromine	10	R4 Plants	NC	NC	NC	NC	NC	--	10	R4 Plants	10	NC	NC	NC	NC	NC	NC	--	NC	NC	10	10	ORNL Plants	NC	--
General Chemistry	Chlorate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Chloric Acid	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Chlorine	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Cyanide (total)	0.098	R4 Avian	NC	NC	NC	NC	NC	--	0.098	R4 Avian	NC	NC	330	0.098	NC	NC	NC	--	NC	NC	NC	NC	--	0.098	LANL Bird
General Chemistry	Fluoride (3)	120	R4 Avian	NC	NC	NC	NC	NC	--	120	R4 Avian	NC	NC	870	120	NC	NC	NC	--	NC	NC	NC	NC	--	0.098	LANL Bird
General Chemistry	Nitrate (as N)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Nitrite (as N)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Perchlorate	0.12	LANL Bird	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.12	LANL Bird
General Chemistry	ortho-Phosphate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
General Chemistry	Sulfate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Aluminum	5	R6 Plants	NC	NC	NC	NC	NC	--	Narrative	--	Narrative	Narrative	NC	NC	NC	5	5	R6 Plants	NC	600	50	50	ORNL Plants	NC	--
Metals	Antimony	0.27	Eco-SSL Mammal	NC	78	0.27	NC	0.27	Eco-SSL Mammal	0.27	R4 Mammal	5	78	0.27	NC	NC	0.5	0.5	R6 Plants	NC	NC	5	5	ORNL Plants	2.3	LANL Mammal
Metals	Arsenic	18	Eco-SSL Plants	43	NC	46	18	18	Eco-SSL Plants	6.8	R4 Inverts	18	6.8	46	43	0.25	1	0.25	R6 Earthworms	60	100	10	10	ORNL Plants	6.8	LANL Invertebrate
Metals	Barium	330	Eco-SSL Inverts	NC	330	2000	NC	330	Eco-SSL Inverts	110	R4 Plants	110	330	2000	820	NC	5	5	R6 Plants	NC	3000	500	500	ORNL Plants	110	LANL Plant
Metals	Beryllium	21	Eco-SSL Mammal	NC	40	21	NC	21	Eco-SSL Mammal	2.5	R4 Plants	2.5	40	21	NC	NC	0.1	0.1	R6 Plants	NC	NC	10	10	ORNL Plants	2.5	LANL Plant
Metals	Boron	2	R4 Avian	NC	NC	NC	NC	NC	--	2	R4 Avian	36	NC	55	2	NC	NC	NC	--	NC	20	0.5	0.5	ORNL Plants	2	LANL Bird
Metals	Cadmium	0.36	Eco-SSL Mammal	0.77	140	0.36	32	0.36	Eco-SSL Mammal	0.36	R4 Mammal	32	140	0.36	0.77	10	0.2	0.2	R6 Plants	20	20	4	4	ORNL Plants	0.27	LANL Mammal
Metals	Chromium (total)	26	Eco-SSL Avian	26	NC	34	NC	26	Eco-SSL Avian	23	R4 Avian	NC	NC	63	23	NC	NC	NC	--	0.4	10	1	0.4	ORNL Inverts	23	LANL Bird
Metals	Chromium VI	130	Eco-SSL Mammal	NC	NC	130	NC	130	Eco-SSL Mammal	0.34	R4 Inverts	0.35	0.34	130	140	0.2	0.018	0.018	R6 Plants	NC	NC	NC	NC	--	0.34	LANL Invertebrate
Metals	Cobalt	13	Eco-SSL Plants	120	NC	230	13	13	Eco-SSL Plants	13	R4 Plants	13	NC	230	120	NC	NC	NC	--	NC	1000	20	20	ORNL Plants	13	LANL Plant
Metals	Copper	28	Eco-SSL Avian	28	80	49	70	28	Eco-SSL Avian	28	R4 Avian	70	80	49	28	32	1	1	R6 Plants	50	100	100	50	ORNL Inverts	14	LANL Bird
Metals	Iron	200	ORNL Microbes	NC	NC	NC	NC	NC	--	Narrative	--	NC	Narrative	NC	NC	NC	NC	NC	--	NC	200	NC	200	ORNL Microbes	NC	--
Metals	Lead	11	Eco-SSL Avian	11	1700	56	120	11	Eco-SSL Avian	11	R4 Avian	120	1700	56	11	100	4.6	4.6	R6 Plants	500	900	50	50	ORNL Plants	11	LANL Bird
Metals	Lithium	2	R4 Plants	NC	NC	NC	NC	NC	--	2	R4 Plants	2	NC	75	NC	NC	NC	NC	--	NC	10	2	2	ORNL Plants	75	LANL Mammal
Metals	Magnesium	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Manganese	220	Eco-SSL Plants	4300	450	4000	220	220	Eco-SSL Plants	220	R4 Plants	220	450	4000	4300	NC	NC	NC	--	NC	100	500	100	ORNL Microbes	220	LANL Plant
Metals	Mercury	0.013	R4 Avian	NC	NC	NC	NC	NC	--	0.013	R4 Avian	0.3	0.05	1.7	0.013	2.5	0.349	0.349	R6 Plants	0.1	30	0.3	0.1	ORNL Inverts	0.013	LANL Bird
Metals	Molybdenum	2	R4 Plants	NC	NC	NC	NC	NC	--	2	R4 Plants	2	NC	4.8	15	NC	NC	NC	--	NC	200	2	2	ORNL Plants	15	LANL Bird
Metals	Nickel	38	Eco-SSL Plants	210	280	130	38	38	Eco-SSL Plants	38	R4 Plants	38	280	130	210	100	25	25	R6 Plants	200	90	30	30	ORNL Plants	10	LANL Mammal
Metals	Niobium	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earth-worms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
Metals	Palladium	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Phosphorous (as P)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Platinum	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Selenium	0.52	Eco-SSL Plants	1.2	4.1	0.63	0.52	0.52	Eco-SSL Plants	0.52	R4 Plants	0.52	4.1	0.63	1.2	7.7	0.05	0.05	R6 Plants	70	100	1	1	ORNL Plants	0.52	LANL Plant
Metals	Silicon	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Silver	4.2	Eco-SSL Avian	4.2	NC	14	560	4.2	Eco-SSL Avian	4.2	R4 Avian	560	NC	14	4.2	NC	0.02	0.02	R6 Plants	NC	50	2	2	ORNL Plants	2.6	LANL Bird
Metals	Strontium	95	R4 Mammal	NC	NC	NC	NC	NC	--	95	R4 Mammal	NC	NC	95	NC	NC	NC	NC	--	NC	NC	NC	NC	--	95	LANL Mammal
Metals	Sulfur	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Metals	Thallium	0.05	R4 Plants	NC	NC	NC	NC	NC	--	0.05	R4 Plants	0.05	NC	0.42	4.5	NC	0.01	0.01	R6 Plants	NC	NC	1	1	ORNL Plants	0.05	LANL Plant
Metals	Tin	7.62	R4 Mammal	NC	NC	NC	NC	NC	--	7.62	R4 Mammal	50	NC	7.62	NC	NC	NC	NC	--	NC	2000	50	50	ORNL Plants	NC	--
Metals	Titanium	1000	ORNL Microbes	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	1000	NC	1000	ORNL Microbes	77	LANL Mammal
Metals	Tungsten	400	ORNL Microbes	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	400	NC	400	ORNL Microbes	NC	--
Metals	Uranium	25	R4 Plants	NC	NC	NC	NC	NC	--	25	R4 Plants	25	NC	480	1100	NC	NC	NC	--	NC	NC	5	5	ORNL Plants	25	--
Metals	Vanadium	7.8	Eco-SSL Avian	7.8	NC	280	NC	7.8	Eco-SSL Avian	7.8	R4 Avian	60	NC	280	7.8	NC	NC	NC	--	NC	20	2	2	ORNL Plants	4.7	LANL Bird
Metals	Zinc	46	Eco-SSL Avian	46	120	79	160	46	Eco-SSL Avian	46	R4 Avian	160	120	79	46	199	0.9	0.9	R6 Plants	200	100	50	50	ORNL Plants	47	LANL Bird
Metals	Zirconium	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	3.15E-06	R4 Mammal	NC	NC	NC	NC	NC	--	3.15E-06	R4 Mammal	NC	5	0.00000315	0.000016	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.60E-05	R4 Avian	NC	NC	NC	NC	NC	--	1.60E-05	R4 Avian	NC	5	0.00000315	0.000016	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Aldrin	0.03	R4 Inverts	NC	NC	NC	NC	NC	--	0.03	R4 Inverts	NC	0.03	0.037	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.037	LANL Mammal
OCPs	alpha-BHC	0.0003	R4 Inverts	NC	NC	NC	NC	NC	--	0.0003	R4 Inverts	NC	0.0003	59	NC	NC	NC	NC	--	NC	NC	NC	NC	--	59	LANL Mammal
OCPs	beta-BHC	0.0003	R4 Inverts	NC	NC	NC	NC	NC	--	0.0003	R4 Inverts	NC	0.0003	0.27	14	NC	NC	NC	--	NC	NC	NC	NC	--	0.27	LANL Mammal
OCPs	delta-BHC	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	gamma-BHC	0.0031	R4 Inverts	NC	NC	NC	NC	NC	--	0.0031	R4 Inverts	0.1	0.0031	0.0095	0.21	NC	NC	NC	--	NC	NC	NC	NC	--	0.0095	LANL Mammal
OCPs	Chlordane (total)	0.0029	R4 alpha-chlordane used as a surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	alpha-Chlordane	0.0029	R4 Inverts	NC	NC	NC	NC	NC	--	0.0029	R4 Inverts	2.2	0.0029	0.27	0.27	NC	NC	NC	--	NC	NC	NC	NC	--	0.27	LANL Bird
OCPs	gamma-Chlordane	0.02	R4 Inverts	NC	NC	NC	NC	NC	--	0.02	R4 Inverts	2.2	0.02	2.3	2.2	NC	NC	NC	--	NC	NC	NC	NC	--	2.2	LANL Bird
OCPs	2,4-D	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Dalapon	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	2,4-DB	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	2,4-DDD	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	4,4'-DDD	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	0.021	R4 Mammal	NC	NC	0.021	0.093	NC	NC	NC	--	NC	NC	NC	NC	--	0.0063	LANL Bird
OCPs	2,4-DDE	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	4,4'-DDE	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	0.021	R4 Mammal	NC	NC	0.021	0.093	NC	NC	NC	--	NC	NC	NC	NC	--	0.11	LANL Bird
OCPs	4,4'-DDT	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	0.021	R4 Mammal	NC	NC	0.021	0.093	NC	NC	NC	--	NC	NC	NC	NC	--	0.044	LANL Mammal
OCPs	Calculated DDx (ND=0.5DL)	0.021	Eco-SSL Mammal	0.093	NC	0.021	NC	0.021	Eco-SSL Mammal	0.021	R4 Mammal	NC	NC	0.021	0.093	NC	NC	NC	--	NC	NC	NC	NC	--	0.044	LANL Mammal (DDT as surrogate)
OCPs	Dicamba	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Dichloroprop	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Dieldrin	0.0049	Eco-SSL Mammal	0.022	NC	0.0049	NC	0.0049	Eco-SSL Mammal	0.0029	R4 Inverts	10	0.0029	0.0049	0.022	NC	NC	NC	--	NC	NC	NC	NC	--	0.0045	LANL Mammal
OCPs	Dinoseb	0.015	R4 Inverts	NC	NC	NC	NC	NC	--	0.015	R4 Inverts	NC	0.015	0.022	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Endosulfan I	0.0009	R4 Inverts	NC	NC	NC	NC	NC	--	0.0009	R4 Inverts	NC	0.0009	0.119	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Endosulfan II	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Endosulfan sulfate	0.0007	R4 Inverts	NC	NC	NC	NC	NC	--	0.0007	R4 Inverts	NC	0.0007	0.036	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Endrin	0.0014	R4 Avian	NC	NC	NC	NC	NC	--	0.0014	R4 Avian	0.0034	0.0019	0.023	0.0014	NC	NC	NC	--	NC	NC	NC	NC	--	0.0014	LANL Bird
OCPs	Endrin aldehyde	0.0014	R4 Endrin used as surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Endrin ketone	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Heptachlor	0.0016	R4 Inverts	NC	NC	NC	NC	NC	--	0.0016	R4 Inverts	0.4	0.0016	0.059	0.3	NC	1	1	R6 Plants	NC	NC	NC	NC	--	0.059	LANL Mammal
OCPs	Heptachlor epoxide	0.00015	R4 Inverts	NC	NC	NC	NC	NC	--	0.00015	R4 Inverts	NC	0.00015	0.152	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earthworms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Mecoprop	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Methoxychlor	0.0021	R4 Inverts	NC	NC	NC	NC	NC	--	0.0021	R4 Inverts	NC	0.0021	5.1	18	NC	NC	NC	--	NC	NC	NC	NC	--	5.1	LANL Mammal
OCPs	2,4,5-T	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OCPs	Toxaphene	0.00015	R4 Inverts	NC	NC	NC	NC	NC	--	0.00015	R4 Inverts	NC	0.00015	5.9	4.1	NC	NC	NC	--	NC	NC	NC	NC	--	4.1	LANL Bird
OCPs	2,4,5-TP	0.055	R4 Inverts	NC	NC	NC	NC	NC	--	0.055	R4 Inverts	NC	0.055	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Chlorpyrifos	0.003	R4 Inverts	NC	NC	NC	NC	NC	--	0.003	R4 Inverts	NC	0.003	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Coumaphos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Dasanit	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Demeton-O	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Demeton-S	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Diazinon	0.0037	R4 Inverts	NC	NC	NC	NC	NC	--	0.0037	R4 Inverts	NC	0.0037	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Dichlorovos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Dimethoate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Disulfoton	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	EPN	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Ethoprop	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Famphur	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Fenthion	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Guthion	0.00006	R4 Inverts	NC	NC	NC	NC	NC	--	0.00006	R4 Inverts	NC	0.00006	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Malathion	0.00004	R4 Inverts	NC	NC	NC	NC	NC	--	0.00004	R4 Inverts	NC	0.00004	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Merphos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Methyl parathion	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Mevinphos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Naled	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Parathion	0.00019	R4 Inverts	NC	NC	NC	NC	NC	--	0.00019	R4 Inverts	NC	0.00019	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Phorate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Prothiophos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Ronnel	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Stirophos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Sulfotepp	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Sulprofos	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Thionazin	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
OPPs	Trichloronate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
PAHs	Ramboll calculated HMW PAHs	1.1	Eco-SSL Mammal	NC	18	1.1	NC	1.1	Eco-SSL Mammal	1.1	R4 Mammal	NC	18	1.1	NC	25	1.2	1.2	R6 Plants	NC	NC	NC	NC	--	NC	--
PAHs	Ramboll calculated LMW PAHs	29	Eco-SSL Inverts	NC	29	100	NC	29	Eco-SSL Inverts	29	R4 Inverts	NC	29	100	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
PAHs	Ramboll Calculated Total PAHs	1.1	HMW PAH as surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Aniline	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Benzenethiol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Benzoic acid	0.01	R4 Inverts	NC	NC	NC	NC	NC	--	0.01	R4 Inverts	NC	0.01	1	NC	NC	NC	NC	--	NC	NC	NC	NC	--	1	LANL Mammal
SVOCs	Benzyl alcohol	0.002	R4 Inverts	NC	NC	NC	NC	NC	--	0.002	R4 Inverts	NC	0.002	120	NC	NC	NC	NC	--	NC	NC	NC	NC	--	120	LANL Mammal
SVOCs	bis(2-Chloro-1-methylethyl) ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	bis(2-Chloroethoxy)methane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	bis(2-Chloroethyl) ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	bis(2-Ethylhexyl)phthalate	0.02	R4 Avian	NC	NC	NC	NC	NC	--	0.02	R4 Avian	NC	8.4	0.6	0.02	NC	NC	NC	--	NC	NC	NC	NC	--	0.02	LANL Bird
SVOCs	4-Bromophenyl-phenyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Butylbenzylphthalate	0.59	R4 Inverts	NC	NC	NC	NC	NC	--	0.59	R4 Inverts	NC	0.59	90	NC	NC	NC	NC	--	NC	NC	NC	NC	--	90	LANL Mammal
SVOCs	Carbazole	0.07	R4 Inverts	NC	NC	NC	NC	NC	--	0.07	R4 Inverts	NC	0.07	79	NC	NC	NC	NC	--	NC	NC	NC	NC	--	79	LANL Mammal
SVOCs	4-Chloroaniline	1	R4 Plants	NC	NC	NC	NC	NC	--	1	R4 Plants	1	1.8	1.1	NC	NC	NC	NC	--	NC	NC	NC	NC	--	1	LANL Plant
SVOCs	2-Chloronaphthalene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	2-Chlorophenol	0.06	R4 Inverts	NC	NC	NC	NC	NC	--	0.06	R4 Inverts	NC	0.06	0.54	0.39	NC	NC	NC	--	NC	NC	NC	NC	--	0.39	LANL Bird

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earthworms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
SVOCs	4-Chlorophenyl-phenyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Dibenzofuran	0.15	R4 Inverts	NC	NC	NC	NC	NC	--	0.15	R4 Inverts	6.1	0.15	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	6.1	LANL Plant
SVOCs	3,3'-Dichlorobenzidine	0.03	R4 Inverts	NC	NC	NC	NC	NC	--	0.03	R4 Inverts	NC	0.03	0.646	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	2,4-Dichlorophenol	0.05	R4 Inverts	NC	NC	NC	NC	NC	--	0.05	R4 Inverts	NC	0.05	87.5	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Diethylphthalate	0.25	R4 Inverts	NC	NC	NC	NC	NC	--	0.25	R4 Inverts	100	0.25	3600	NC	NC	NC	NC	--	NC	NC	100	100	ORNL Plants	100	LANL Plant
SVOCs	2,4-Dimethylphenol	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Dimethylphthalate	10	R4 Inverts	NC	NC	NC	NC	NC	--	10	R4 Inverts	NC	10	38	NC	NC	NC	NC	--	200	NC	NC	200	ORNL Inverts	10	LANL Invertebrate
SVOCs	Di-n-butylphthalate	0.011	R4 Avian	NC	NC	NC	NC	NC	--	0.011	R4 Avian	160	0.22	180	0.011	NC	NC	NC	--	NC	NC	200	200	ORNL Plants	0.011	LANL Bird
SVOCs	2,4-Dinitrophenol	0.061	R4 Mammal	NC	NC	NC	NC	NC	--	0.061	R4 Mammal	20	0.15	0.061	NC	NC	NC	NC	--	NC	NC	20	20	ORNL Plants	NC	--
SVOCs	2,4-Dinitrotoluene	6	R4 Plants	NC	NC	NC	NC	NC	--	6	R4 Plants	6	18	14	NC	NC	NC	NC	--	NC	NC	NC	NC	--	6	LANL Plant
SVOCs	2,6-Dinitrotoluene	4	R4 Mammal	NC	NC	NC	NC	NC	--	4	R4 Mammal	NC	30	4	52	NC	NC	NC	--	NC	NC	NC	NC	--	4	LANL Mammal
SVOCs	Di-n-octylphthalate	0.91	R4 Mammal	NC	NC	NC	NC	NC	--	0.91	R4 Mammal	NC	303	0.91	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.91	LANL Mammal
SVOCs	1,4-Dioxane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Hexachlorobenzene	0.079	R4 Avian	NC	NC	NC	NC	NC	--	0.079	R4 Avian	10	10	0.2	0.079	NC	NC	NC	--	NC	1000	NC	1000	ORNL Microbes	0.079	LANL Bird
SVOCs	Hexachlorobutadiene	0.009	R4 Inverts	NC	NC	NC	NC	NC	--	0.009	R4 Inverts	NC	0.009	0.04	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Hexachlorocyclopentadiene	0.001	R4 Inverts	NC	NC	NC	NC	NC	--	0.001	R4 Inverts	10	0.001	0.755	NC	NC	0.1	0.1	R6 Plants	NC	NC	10	10	ORNL Plants	NC	--
SVOCs	Hexachloroethane	0.024	R4 Inverts	NC	NC	NC	NC	NC	--	0.024	R4 Inverts	NC	0.024	0.6	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Isophorone	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	2-Methylphenol	0.1	R4 Inverts	NC	NC	NC	NC	NC	--	0.1	R4 Inverts	0.67	0.1	580	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.67	LANL Plant
SVOCs	3-Methylphenol & 4-Methylphenol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	4-Methylphenol	0.08	R4 Inverts	NC	NC	NC	NC	NC	--	0.08	R4 Inverts	NC	0.08	163	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	4,6-Dinitro-2-methylphenol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	4-Chloro-3-methylphenol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	2-Nitroaniline	0.02	R4 Inverts	NC	NC	NC	NC	NC	--	0.02	R4 Inverts	NC	0.02	5.3	NC	NC	NC	NC	--	NC	NC	NC	NC	--	5.3	LANL Mammal
SVOCs	3-Nitroaniline	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	4-Nitroaniline	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Nitrobenzene	2.2	R4 Inverts	NC	NC	NC	NC	NC	--	2.2	R4 Inverts	NC	2.2	4.8	NC	2.26	NC	2.26	R6 Earthworms	40	1000	NC	40	ORNL Inverts	2.2	LANL Invertebrate
SVOCs	2-Nitrophenol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	4-Nitrophenol	5.12	R4 Mammal	NC	NC	NC	NC	NC	--	5.12	R4 Mammal	NC	7	5.12	NC	NC	NC	NC	--	7	NC	NC	7	ORNL Inverts	NC	--
SVOCs	n-Nitrosodiphenylamine	0.545	R4 Mammal	NC	NC	NC	NC	NC	--	0.545	R4 Mammal	NC	20	0.545	NC	NC	NC	NC	--	20	NC	NC	20	ORNL Inverts	NC	--
SVOCs	Octachlorostyrene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Pentachlorobenzene	0.5	R4 Mammal	NC	NC	NC	NC	NC	--	0.5	R4 Mammal	NC	20	0.5	NC	1.15	NC	1.15	R6 Earthworms	20	NC	NC	20	ORNL Inverts	NC	--
SVOCs	Pentachlorophenol	2.1	Eco-SSL Avian	2.1	31	2.8	5	2.1	Eco-SSL Avian	2.1	R4 Avian	5	31	2.8	2.1	10	1.73	1.73	R6 Plants	6	400	3	3	ORNL Plants	0.36	LANL Bird
SVOCs	Phenol	0.79	R4 Plants	NC	NC	NC	NC	NC	--	0.79	R4 Plants	0.79	1.8	37	NC	NC	NC	NC	--	30	1000	70	30	ORNL Inverts	0.79	LANL Plant
SVOCs	Phthalic acid	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	n-Nitroso-di-n-propylamine	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	Pyridine	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	1,2,4,5-Tetrachlorobenzene	0.18	R4 Inverts	NC	NC	NC	NC	NC	--	0.18	R4 Inverts	NC	0.18	2.02	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
SVOCs	2,4,5-Trichlorophenol	4	R4 Plants	NC	NC	NC	NC	NC	--	4	R4 Plants	4	9	14.1	NC	NC	NC	NC	--	9	NC	4	4	ORNL Plants	NC	--
SVOCs	2,4,6-Trichlorophenol	9.94	R4 Mammal	NC	NC	NC	NC	NC	--	9.94	R4 Mammal	NC	10	9.94	NC	NC	NC	NC	--	10	NC	NC	10	ORNL Inverts	NC	--
VOCs	Acetone	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	1.2	R4 Inverts	NC	0.04	1.2	7.5	NC	NC	NC	--	NC	NC	NC	NC	--	1.2	LANL Mammal
VOCs	Acetonitrile	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Acetophenone	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	t-Amyl methyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Azobenzene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Benzene	0.12	R4 Inverts	NC	NC	NC	NC	NC	--	0.12	R4 Inverts	NC	0.12	24	NC	NC	NC	NC	--	NC	NC	NC	NC	--	24	LANL Mammal
VOCs	Bromobenzene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Bromochloromethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Bromodichloromethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earth-worms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
VOCs	Bromoform	0.07	R4 Inverts	NC	NC	NC	NC	NC	--	0.07	R4 Inverts	NC	0.07	15.9	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Bromomethane	0.002	R4 Inverts	NC	NC	NC	NC	NC	--	0.002	R4 Inverts	NC	0.002	0.24	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2-Butanone	1	R4 Inverts	NC	NC	NC	NC	NC	--	1	R4 Inverts	NC	1	350	NC	NC	NC	NC	--	NC	NC	NC	NC	--	350	LANL Mammal
VOCs	n-Butylbenzene	10	R4 Dimethylphthalate used as a surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	sec-Butylbenzene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Carbon disulfide	0.005	R4 Inverts	NC	NC	NC	NC	NC	--	0.005	R4 Inverts	NC	0.005	0.81	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.81	LANL Mammal
VOCs	Carbon tetrachloride	0.05	R4 Inverts	NC	NC	NC	NC	NC	--	0.05	R4 Inverts	NC	0.05	NC	2.98	NC	NC	NC	--	NC	1000	NC	1000	ORNL Microbes	NC	--
VOCs	Chlorinated fluorocarbon (Freon 113)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Chlorobenzene	2.4	R4 Inverts	NC	NC	NC	NC	NC	--	2.4	R4 Inverts	NC	2.4	43	NC	NC	NC	NC	--	40	NC	NC	40	ORNL Inverts	2.4	LANL Invertebrate
VOCs	Chloroethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Chloroform	0.05	R4 Inverts	NC	NC	NC	NC	NC	--	0.05	R4 Inverts	NC	0.05	8	NC	NC	NC	NC	--	NC	NC	NC	NC	--	8	LANL Mammal
VOCs	Chloromethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2-Dibromo-3-chloropropane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2-Chlorotoluene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	4-Chlorotoluene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Cumene	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	p-Cymene	0.18	R4 Inverts	NC	NC	NC	NC	NC	--	0.18	R4 Inverts	NC	0.18	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Dibromochloromethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2-Dibromoethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Dibromomethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2-Dichlorobenzene	0.09	R4 Inverts	NC	NC	NC	NC	NC	--	0.09	R4 Inverts	NC	0.09	0.92	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.92	LANL Mammal
VOCs	1,3-Dichlorobenzene	0.08	R4 Inverts	NC	NC	NC	NC	NC	--	0.08	R4 Inverts	NC	0.08	0.74	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.74	LANL Mammal
VOCs	1,4-Dichlorobenzene	0.89	R4 Mammal	NC	NC	NC	NC	NC	--	0.89	R4 Mammal	NC	1.2	0.89	NC	NC	NC	NC	--	20	NC	NC	20	ORNL Inverts	0.89	LANL Mammal
VOCs	Dichlorodifluoromethane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,1-Dichloroethane	0.14	R4 Inverts	NC	NC	NC	NC	NC	--	0.14	R4 Inverts	NC	0.14	210	NC	NC	NC	NC	--	NC	NC	NC	NC	--	210	LANL Mammal
VOCs	1,2-Dichloroethane	0.4	R4 Inverts	NC	NC	NC	NC	NC	--	0.4	R4 Inverts	NC	0.4	27	0.85	NC	NC	NC	--	NC	NC	NC	NC	--	0.85	LANL Bird
VOCs	1,1-Dichloroethene	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	11	NC	NC	NC	NC	--	NC	NC	NC	NC	--	11	LANL Mammal
VOCs	cis-1,2-Dichloroethene	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	trans-1,2-Dichloroethene	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	0.784	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2-Dichloroethylene	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	24	NC	NC	NC	NC	--	NC	NC	NC	NC	--	24	LANL Mammal
VOCs	1,2-Dichloropropane	0.28	R4 Inverts	NC	NC	NC	NC	NC	--	0.28	R4 Inverts	NC	0.28	32.7	NC	NC	NC	NC	--	700	NC	NC	700	ORNL Inverts	NC	--
VOCs	1,3-Dichloropropane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2,2-Dichloropropane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,1-Dichloropropene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	cis-1,3-Dichloropropene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	trans-1,3-Dichloropropene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Diisopropyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2,2-Dimethylpentane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2,3-Dimethylpentane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2,4-Dimethylpentane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	3,3-Dimethylpentane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2-Diphenylhydrazine	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Ethanol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Ethyl benzene	0.27	R4 Inverts	NC	NC	NC	NC	NC	--	0.27	R4 Inverts	NC	0.27	5.16	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Ethyl tert-butyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Ethylene glycol	0.31	R4 Inverts	NC	NC	NC	NC	NC	--	0.31	R4 Inverts	NC	0.31	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	3-ethylpentane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	n-Heptane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2-Methyl-Hexane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2-Hexanone	0.36	R4 Avian	NC	NC	NC	NC	NC	--	0.36	R4 Avian	NC	2.5	5.4	0.36	NC	NC	NC	--	NC	NC	NC	NC	--	0.36	LANL Bird
VOCs	Methanol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Methyl disulfide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Methyl iodide	0.038	LANL Bird	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.038	LANL Bird
VOCs	Methyl tert-butyl ether	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--

TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earthworms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
VOCs	Methylene Chloride	0.21	R4 Inverts	NC	NC	NC	NC	NC	--	0.21	R4 Inverts	1600	0.21	2.6	NC	NC	NC	NC	--	NC	NC	NC	NC	--	2.6	LANL Mammal
VOCs	3-Methylhexane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2-Nitropropane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1-Nonanal	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	4-Methyl-2-pentanone	9.7	LANL Mammal	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	9.7	LANL Mammal
VOCs	Phenyl Sulfide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	n-Propylbenzene	10	R4 Dimethylphthalate used as a surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Styrene	1.2	R4 Inverts	NC	NC	NC	NC	NC	--	1.2	R4 Inverts	3.2	1.2	NC	NC	NC	NC	NC	--	NC	NC	300	300	ORNL Plants	1.2	LANL Invertebrate
VOCs	tert Butyl alcohol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	tert-Butylbenzene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,1,1,2-Tetrachloroethane	0.07	R4 Inverts	NC	NC	NC	NC	NC	--	0.07	R4 Inverts	NC	0.07	225	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,1,2,2-Tetrachloroethane	0.127	R4 Mammal	NC	NC	NC	NC	NC	--	0.127	R4 Mammal	NC	0.19	0.127	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Tetrachloroethene	0.06	R4 Inverts	NC	NC	NC	NC	NC	--	0.06	R4 Inverts	10	0.06	0.18	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.18	LANL Mammal
VOCs	Toluene	0.15	R4 Inverts	NC	NC	NC	NC	NC	--	0.15	R4 Inverts	200	0.15	23	NC	NC	NC	NC	--	NC	NC	200	200	ORNL Plants	23	LANL Mammal
VOCs	1,2,3-Trichlorobenzene	20	R4 Inverts	NC	NC	NC	NC	NC	--	20	R4 Inverts	NC	20	NC	NC	NC	NC	NC	--	20	NC	NC	20	ORNL Inverts	NC	--
VOCs	1,2,4-Trichlorobenzene	0.27	R4 Mammal	NC	NC	NC	NC	NC	--	0.27	R4 Mammal	NC	1.2	0.27	NC	NC	NC	NC	--	20	NC	NC	20	ORNL Inverts	0.27	LANL Mammal
VOCs	1,3,5-Trichlorobenzene	0.07	R4 Inverts	NC	NC	NC	NC	NC	--	0.07	R4 Inverts	NC	0.07	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,1,1-Trichloroethane	0.04	R4 Inverts	NC	NC	NC	NC	NC	--	0.04	R4 Inverts	NC	0.04	260	NC	NC	NC	NC	--	NC	NC	NC	NC	--	260	LANL Mammal
VOCs	1,1,2-Trichloroethane	0.32	R4 Inverts	NC	NC	NC	NC	NC	--	0.32	R4 Inverts	NC	0.32	28.6	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Trichloroethene	0.06	R4 Inverts	NC	NC	NC	NC	NC	--	0.06	R4 Inverts	NC	0.06	42	NC	NC	NC	NC	--	NC	NC	NC	NC	--	42	LANL Mammal
VOCs	Trichlorofluoromethane	16.4	R4 Mammal	NC	NC	NC	NC	NC	--	16.4	R4 Mammal	NC	NC	16.4	NC	NC	NC	NC	--	NC	NC	NC	NC	--	52	LANL Mammal
VOCs	1,2,3-Trichloropropane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,2,4-Trimethylbenzene	0.09	R4 Inverts	NC	NC	NC	NC	NC	--	0.09	R4 Inverts	NC	0.09	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	1,3,5-Trimethylbenzene	0.16	R4 Inverts	NC	NC	NC	NC	NC	--	0.16	R4 Inverts	NC	0.16	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	2,2,3-Trimethylbutane	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Vinyl acetate	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Vinyl chloride	0.03	R4 Inverts	NC	NC	NC	NC	NC	--	0.03	R4 Inverts	NC	0.03	0.12	NC	NC	NC	NC	--	NC	NC	NC	NC	--	0.12	LANL Mammal
VOCs	m,p-Xylene	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	o-Xylene	0.1	R4 xylenes used as a surrogate	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
VOCs	Xylenes (total)	0.1	R4 Inverts	NC	NC	NC	NC	NC	--	0.1	R4 Inverts	100	0.1	1.4	41	NC	NC	NC	--	NC	NC	NC	NC	--	1.4	LANL Mammal
PCBs	Aroclor-1016	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	2.51	10	2.51	R6 Earthworms	NC	NC	40	40	ORNL Plants	1.1	LANL Mammal
PCBs	Aroclor-1221	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	NC	NC	NC	--	NC	NC	40	40	ORNL Plants	NC	--
PCBs	Aroclor-1232	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	NC	NC	NC	--	NC	NC	40	40	ORNL Plants	NC	--
PCBs	Aroclor-1242	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	NC	NC	0.38	0.041	NC	NC	NC	--	NC	NC	40	40	ORNL Plants	0.041	LANL Bird
PCBs	Aroclor-1248	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	NC	NC	NC	--	NC	NC	40	40	ORNL Plants	0.0073	LANL Mammal
PCBs	Aroclor-1254	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	2.51	10	2.51	R6 Earthworms	NC	NC	40	40	ORNL Plants	0.041	LANL Bird
PCBs	Aroclor-1260	0.041	R4 Avian	NC	NC	NC	NC	NC	--	0.041	R4 Avian	40	0.33	0.371	0.041	NC	NC	NC	--	NC	NC	40	40	ORNL Plants	0.88	LANL Bird
TPH	Oil Range Organics	81.2	LANL Plant (Total Petroleum used as a surrogate)	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	81.2	LANL Plant (Total Petroleum used as a surrogate)
TPH	Total petroleum hydrocarbon-diesel	81.2	LANL Plant (Total Petroleum used as a surrogate)	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	81.2	LANL Plant (Total Petroleum used as a surrogate)
TPH	Total petroleum hydrocarbon-gasoline	81.2	LANL Plant (Total Petroleum used as a surrogate)	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	81.2	LANL Plant (Total Petroleum used as a surrogate)
Organic Halides	Organic Halides (total)	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	bis(p-Chlorophenyl) disulfide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	4-Chlorothiobianisole	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	p-Chlorothiophenol	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--

**TABLE 2-4a. Surface Soil Ecological Screening Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg or or pCi/g

Chem Group	Chemical Name	SLERA ESV	Source	Eco-SSL Avian	Eco-SSL Inverts	Eco-SSL Mammal	Eco-SSL Plants	Most Sensitive Eco-SSL	Source	Most Sensitive USEPA R4 ESV	Source	R4 Plants	R4 Inverts	R4 Mammal	R4 Avian	R6 Earth-worms	R6 Plants	Most Sensitive USEPA R6 ESV	Source	ORNL Inverts	ORNL Microbes	ORNL Plants	Most Sensitive ORNL ESV	Source	LANL EcoRisk Database Min NOAEL TRV	Source
Other	2,2'-/4,4'-Dichlorobenzil	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	Diphenyl sulfone	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	Hydroxymethyl phthalimide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	Phenyl Disulfide	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
Other	bis(p-Chlorophenyl) sulfone	NC	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	NC	--
RAD	Radium-226	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	1.5	LANL Invertebrate
RAD	Radium-228	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	1.2	LANL Invertebrate
RAD	Thorium-228	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	43	LANL Invertebrate
RAD	Thorium-230	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	52	LANL Invertebrate
RAD	Thorium-232	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	6.2	LANL Invertebrate
RAD	Uranium-234	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	440	LANL Plant
RAD	Uranium-235	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	440	LANL Plant
RAD	Uranium-238	see LANL Screening	--	NC	NC	NC	NC	NC	--	NC	--	NC	NC	NC	NC	NC	NC	NC	--	NC	NC	NC	NC	--	400	LANL Plant

Notes:
(1) All ESVs are in milligrams per kilogram (mg/kg) except for radionuclide compounds which are reported in picocuries per gram
(2) Hierarchy of surface soil ecological screening values are as follows (in order of preference): minimum Eco-SSL; USEPA R4; minimum USEPA R6; and minimum ORNL.
(3) R4 ESV for fluoride reports that it is 32 mg/kg; however, the source of this ESV is unclear as it is not reported in R4's supporting documentation.

2,4,5-T = 2,4,5-Trichlorophenoxyacetic acid
2,4,5-TP = Fenoprop
2,4-D = 2,4-Dichlorophenoxyacetic acid
2,4-DB = 4-(2,4-Dichlorophenoxy)butanoic acid
BHC = Hexachlorocyclohexane
CASRN = Chemical Abstract Service Registration Number
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
DDx = Sum of all DDT isomers and metabolites
DL = Detection limit
Eco-SSL = Ecological Soil Screening Level
EPN = O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate
ESV = Ecological screening level
HMW = High Molecular Weight
Inverts = Invertebrates
LANL = Los Alamos National Laboratory
LMW = Low Molecular Weight
mg/kg = Milligram per kilogram.
Min = Minimum

N = Nitrogen
NC = No criterion
NOAEL = No observed adverse effects number
OCPs = Organochlorine Pesticides
OPPs = Organophosphate Pesticides
ORNL = Oak Ridge National Laboratory
OU-2 = Operable Unit 2
P = Phosphorous
PAHs = Polycyclic Aromatic Hydrocarbons
PCBs = Polychlorinated Biphenyls
pCi/g = Picocuries per gram
R4 = USEPA R4
R6 = USEPA R6
RAD = Radionuclide Compounds
SLERA = Screening level ecological risk assessment
SVOCs = Semivolatile Organic Compounds
TEQ = Toxic equivalency quotient
TPH = Total Petroleum Hydrocarbons
TRV = Toxicity reference value
USEPA = United States Environmental Protection Agency
VOCs = Volatile Organic Compounds

References:
Eco-SSL ESVs: USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.
LANL ESVs: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)
ORNL ESVs: Efroymsen, R.A., M.E. Will, and G.W. Suter II. 1997b. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, TN. ES/ER/TM-126/R2. (Available at <http://www.esd.ornl.gov/programs/ecorisk/documents/tm126r21.pdf>)
USEPA R4 ESVs: USEPA Region 4. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).
USEPA R6 ESVs: USEPA Region 6. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities (EPA530-D-99-001A). August.

**TABLE 2-4b. Surface Soil Ecological Screening Values for Radionuclide Compounds
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in pCi/g

Constituent	Medium	Receptor	LANL Screening Values pCi/g	
			NOAEL	LOAEL
RA-226	SOIL	Earthworm (Soil-dwelling invertebrate)	1.5	15
RA-226	SOIL	American robin (Avian insectivore)	8.2	82
RA-226	SOIL	American robin (Avian omnivore)	8.4	84
RA-226	SOIL	American robin (Avian herbivore)	34	340
RA-226	SOIL	Generic plant (Terrestrial autotroph - producer)	54	540
RA-226	SOIL	American kestrel (insectivore / carnivore)	61	610
RA-226	SOIL	Mountain cottontail (Mammalian herbivore)	340	3,400
RA-226	SOIL	Gray fox (Mammalian top carnivore)	370	3,700
RA-226	SOIL	Deer mouse (Mammalian omnivore)	380	3,800
RA-226	SOIL	Montane shrew (Mammalian insectivore)	510	5,100
RA-226	SOIL	American kestrel (Avian top carnivore)	870	8,700
RA-228	SOIL	Earthworm (Soil-dwelling invertebrate)	1.2	12
RA-228	SOIL	American robin (Avian insectivore)	11	110
RA-228	SOIL	American robin (Avian omnivore)	11	110
RA-228	SOIL	American robin (Avian herbivore)	46	460
RA-228	SOIL	Generic plant (Terrestrial autotroph - producer)	48	480
RA-228	SOIL	American kestrel (insectivore / carnivore)	83	830
RA-228	SOIL	Mountain cottontail (Mammalian herbivore)	420	4,200
RA-228	SOIL	Deer mouse (Mammalian omnivore)	490	4,900
RA-228	SOIL	Gray fox (Mammalian top carnivore)	560	5,600
RA-228	SOIL	Montane shrew (Mammalian insectivore)	770	7,700
RA-228	SOIL	American kestrel (Avian top carnivore)	1,400	14,000
TH-228	SOIL	Earthworm (Soil-dwelling invertebrate)	43	430
TH-228	SOIL	Generic plant (Terrestrial autotroph - producer)	140	1,400
TH-228	SOIL	Mountain cottontail (Mammalian herbivore)	800	8,000
TH-228	SOIL	Deer mouse (Mammalian omnivore)	820	8,200
TH-228	SOIL	Gray fox (Mammalian top carnivore)	830	8,300
TH-228	SOIL	Montane shrew (Mammalian insectivore)	830	8,300
TH-228	SOIL	American robin (Avian herbivore)	1,100	11,000
TH-228	SOIL	American robin (Avian omnivore)	1,200	12,000
TH-228	SOIL	American robin (Avian insectivore)	1,300	13,000
TH-228	SOIL	American kestrel (Avian top carnivore)	1,600	16,000
TH-228	SOIL	American kestrel (insectivore / carnivore)	1,600	16,000
TH-230	SOIL	Earthworm (Soil-dwelling invertebrate)	52	520
TH-230	SOIL	Generic plant (Terrestrial autotroph - producer)	200	2,000
TH-230	SOIL	American robin (Avian herbivore)	1,200	12,000
TH-230	SOIL	American robin (Avian omnivore)	1,400	14,000
TH-230	SOIL	American robin (Avian insectivore)	2,200	22,000
TH-230	SOIL	American kestrel (insectivore / carnivore)	17,000	170,000
TH-230	SOIL	Mountain cottontail (Mammalian herbivore)	21,000	210,000
TH-230	SOIL	Gray fox (Mammalian top carnivore)	68,000	680,000
TH-230	SOIL	Deer mouse (Mammalian omnivore)	78,000	780,000
TH-230	SOIL	Montane shrew (Mammalian insectivore)	110,000	1,100,000
TH-230	SOIL	American kestrel (Avian top carnivore)	170,000	1,700,000
TH-232	SOIL	Earthworm (Soil-dwelling invertebrate)	6.2	62
TH-232	SOIL	Generic plant (Terrestrial autotroph - producer)	24	240
TH-232	SOIL	American robin (Avian herbivore)	150	1,500
TH-232	SOIL	American robin (Avian omnivore)	170	1,700
TH-232	SOIL	American robin (Avian insectivore)	260	2,600
TH-232	SOIL	American kestrel (insectivore / carnivore)	2,200	22,000
TH-232	SOIL	Mountain cottontail (Mammalian herbivore)	2,900	29,000
TH-232	SOIL	Gray fox (Mammalian top carnivore)	14,000	140,000
TH-232	SOIL	Deer mouse (Mammalian omnivore)	19,000	190,000
TH-232	SOIL	Montane shrew (Mammalian insectivore)	49,000	490,000
TH-232	SOIL	American kestrel (Avian top carnivore)	50,000	500,000

**TABLE 2-4b. Surface Soil Ecological Screening Values for Radionuclide Compounds
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in pCi/g

Constituent	Medium	Receptor	LANL Screening Values pCi/g	
			NOAEL	LOAEL
U-234	SOIL	Generic plant (Terrestrial autotroph - producer)	440	4,400
U-234	SOIL	Earthworm (Soil-dwelling invertebrate)	2,200	22,000
U-234	SOIL	American robin (Avian herbivore)	14,000	140,000
U-234	SOIL	American robin (Avian omnivore)	27,000	270,000
U-234	SOIL	Mountain cottontail (Mammalian herbivore)	36,000	360,000
U-234	SOIL	American robin (Avian insectivore)	69,000	690,000
U-234	SOIL	Gray fox (Mammalian top carnivore)	110,000	1,100,000
U-234	SOIL	Deer mouse (Mammalian omnivore)	120,000	1,200,000
U-234	SOIL	Montane shrew (Mammalian insectivore)	140,000	1,400,000
U-234	SOIL	American kestrel (Avian top carnivore)	260,000	2,600,000
U-234	SOIL	American kestrel (insectivore / carnivore)	260,000	2,600,000
U-235	SOIL	Generic plant (Terrestrial autotroph - producer)	440	4,400
U-235	SOIL	Earthworm (Soil-dwelling invertebrate)	1,600	16,000
U-235	SOIL	Mountain cottontail (Mammalian herbivore)	4,700	47,000
U-235	SOIL	Deer mouse (Mammalian omnivore)	5,200	52,000
U-235	SOIL	Gray fox (Mammalian top carnivore)	5,200	52,000
U-235	SOIL	Montane shrew (Mammalian insectivore)	5,200	52,000
U-235	SOIL	American robin (Avian herbivore)	6,300	63,000
U-235	SOIL	American robin (Avian omnivore)	7,900	79,000
U-235	SOIL	American robin (Avian insectivore)	9,500	95,000
U-235	SOIL	American kestrel (Avian top carnivore)	10,000	100,000
U-235	SOIL	American kestrel (insectivore / carnivore)	10,000	100,000
U-238	SOIL	Generic plant (Terrestrial autotroph - producer)	400	4,000
U-238	SOIL	Earthworm (Soil-dwelling invertebrate)	1,100	11,000
U-238	SOIL	Mountain cottontail (Mammalian herbivore)	2,000	20,000
U-238	SOIL	Deer mouse (Mammalian omnivore)	2,100	21,000
U-238	SOIL	Gray fox (Mammalian top carnivore)	2,100	21,000
U-238	SOIL	Montane shrew (Mammalian insectivore)	2,100	21,000
U-238	SOIL	American robin (Avian herbivore)	3,300	33,000
U-238	SOIL	American robin (Avian omnivore)	3,700	37,000
U-238	SOIL	American robin (Avian insectivore)	4,000	40,000
U-238	SOIL	American kestrel (Avian top carnivore)	4,200	42,000
U-238	SOIL	American kestrel (insectivore / carnivore)	4,200	42,000

Notes:

LANL = Los Alamos National Laboratory
 LOAEL = Lowest observed adverse affect level
 NOAEL = No observe adverse effect level
 pCi/g = Picocuries per gram
 Ra = Radium
 Th = Thorium
 U = Uranium

References:

LANL: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	# Samples	# Detects	% Detects	Detects		Fail Statistical Testing for Background Consistency? (a)	Max SQL	SLERA Criterion	Source	Is this Constituent Detected?	Is maximum detection > criterion?	Max HQ	Max SQL HQ
							Max	Max Location								
General Chemistry	Ammonia	7664-41-7	mg/kg	4	0	0	ND	--	No BKG	6.30E-01	NC	--	no	NA	ND	ND, No ESV
General Chemistry	Bromide	24959-67-9	mg/kg	34	9	26	7.60E+00	TSB-AR-06-0(FD)	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Bromine	7726-95-6	mg/kg	30	9	30	1.52E+01	TSB-AR-06-0(FD)	No BKG	Det	1.00E+01	R4 Plants	Yes	Yes	2	Det
General Chemistry	Chlorate	14866-68-3	mg/kg	4	2	50	6.30E+00	SA27-0.5	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Chloric acid	7790-93-4	mg/kg	30	6	20	4.60E+00	TSB-AR-06-0(FD)	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Chlorine	7782-50-5	mg/kg	30	28	93	4.41E+03	TSB-AR-06-0(FD)	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Cyanide (total)	57-12-5	mg/kg	3	0	0	ND	--	No BKG	1.40E-01	9.80E-02	R4 Avian	no	NA	ND	1
General Chemistry	Fluoride	16984-48-8	mg/kg	30	14	47	1.60E+00	TSB-AJ-03-0	NA	Det	1.20E+02	R4 Avian	Yes	No	0.01	Det
General Chemistry	Nitrate (as N)	14797-55-8 N	mg/kg	34	34	100	2.29E+02	TSB-AR-06-0(FD)	Yes	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Nitrite (as N)	14797-65-0	mg/kg	34	5	15	4.20E+00	SA27-0.5	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Perchlorate	14797-73-0	mg/kg	34	33	97	2.18E+01	SA26-0.5	No BKG	Det	1.20E-01	LANL Bird	Yes	Yes	200	Det
General Chemistry	ortho-Phosphate	11-36-9	mg/kg	34	3	9	2.00E+00	TSB-AR-11-0	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
General Chemistry	Sulfate	14808-79-8	mg/kg	34	34	100	1.45E+03	TSB-AR-06-0(FD)	Yes	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Aluminum	7429-90-5	mg/kg	34	34	100	9.75E+03	TSB-BJ-01-0	No	Det	5.00E+00	R6 Plants	Yes	Yes	2,000	Det
Metals	Antimony	7440-36-0	mg/kg	34	31	91	4.20E-01	TSB-BR-02-0	No	Det	2.70E-01	Eco-SSL Mammal	Yes	Yes	2	Det
Metals	Arsenic	7440-38-2	mg/kg	34	34	100	3.70E+00	TSB-AR-01-0(FD)	No	Det	1.80E+01	Eco-SSL Plants	Yes	No	0.2	Det
Metals	Barium	7440-39-3	mg/kg	34	34	100	2.43E+02	TSB-AR-04-0	Yes	Det	3.30E+02	Eco-SSL Inverts	Yes	No	0.7	Det
Metals	Beryllium	7440-41-7	mg/kg	34	34	100	5.70E-01	TSB-BJ-01-0	No	Det	2.10E+01	Eco-SSL Mammal	Yes	No	0.03	Det
Metals	Boron	7440-42-8	mg/kg	34	4	12	1.11E+01	SA26-0.5	LDF (No)	Det	2.00E+00	R4 Avian	Yes	Yes	6	Det
Metals	Cadmium	7440-43-9	mg/kg	34	31	91	5.90E-01	TSB-BJ-02-0	LDF (Yes)	Det	3.60E-01	Eco-SSL Mammal	Yes	Yes	2	Det
Metals	Chromium (total)	7440-47-3	mg/kg	34	34	100	1.59E+01	TSB-BJ-02-0	Yes	Det	2.60E+01	Eco-SSL Avian	Yes	No	0.6	Det
Metals	Chromium VI	18540-29-9	mg/kg	34	17	50	5.40E-01	TSB-BR-05-0	LDF (Yes)	Det	1.30E+02	Eco-SSL Mammal	Yes	No	0.004	Det
Metals	Cobalt	7440-48-4	mg/kg	34	34	100	7.50E+00	TSB-BR-02-0	No	Det	1.30E+01	Eco-SSL Plants	Yes	No	0.6	Det
Metals	Copper	7440-50-8	mg/kg	34	34	100	3.10E+01	TSB-BR-02-0	No	Det	2.80E+01	Eco-SSL Avian	Yes	Yes	1	Det
Metals	Iron	7439-89-6	mg/kg	34	34	100	1.72E+04	TSB-BJ-02-0	No	Det	2.00E+02	ORNL Microbes	Yes	Yes	90	Det
Metals	Lead	7439-92-1	mg/kg	34	34	100	1.36E+02	TSB-BR-03-0	Yes	Det	1.10E+01	Eco-SSL Avian	Yes	Yes	10	Det
Metals	Lithium	7439-93-2	mg/kg	30	28	93	1.69E+01	TSB-AR-12-0	No	Det	2.00E+00	R4 Plants	Yes	Yes	8	Det
Metals	Magnesium	7439-95-4	mg/kg	34	34	100	9.79E+03	TSB-AR-01-0	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Manganese	7439-96-5	mg/kg	34	34	100	6.68E+02	TSB-BR-02-0	No	Det	2.20E+02	Eco-SSL Plants	Yes	Yes	3	Det
Metals	Mercury	7439-97-6	mg/kg	34	24	71	1.56E-02	TSB-BJ-01-0	No	Det	1.30E-02	R4 Avian	Yes	Yes	1	Det
Metals	Molybdenum	7439-98-7	mg/kg	34	19	56	1.10E+00	SA26-0.5	No	Det	2.00E+00	R4 Plants	Yes	No	0.6	Det
Metals	Nickel	7440-02-0	mg/kg	34	34	100	2.37E+01	TSB-AJ-02-0	No	Det	3.80E+01	Eco-SSL Plants	Yes	No	0.6	Det
Metals	Niobium	7440-03-1	mg/kg	30	2	7	2.00E+00	TSB-AR-01-0	LDF (No)	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Palladium	7440-05-3	mg/kg	30	30	100	5.20E-01	TSB-AR-01-0	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Phosphorous (as P)	7723-14-0	mg/kg	30	30	100	1.51E+03	TSB-BR-02-0	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Platinum	7440-06-4	mg/kg	34	2	6	1.60E-02	SA26-0.5	LDF (No)	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Selenium	7782-49-2	mg/kg	34	1	3	1.20E-01	SA26-0.5	LDF (No)	Det	5.20E-01	Eco-SSL Plants	Yes	No	0.2	Det
Metals	Silicon	7440-21-3	mg/kg	30	30	100	1.32E+03	TSB-AR-02-0	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Silver	7440-22-4	mg/kg	34	34	100	8.20E-01	TSB-BR-03-0	LDF (No)	Det	4.20E+00	Eco-SSL Avian	Yes	No	0.2	Det
Metals	Strontium	7440-24-6	mg/kg	34	34	100	2.04E+02	TSB-AR-01-0	No	Det	9.50E+01	R4 Mammal	Yes	Yes	2	Det
Metals	Sulfur	7704-34-9	mg/kg	30	3	10	1.21E+03	TSB-AR-06-0	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Metals	Thallium	7440-28-0	mg/kg	34	4	12	2.00E-01	SA26-0.5	LDF (No)	Det	5.00E-02	R4 Plants	Yes	Yes	4	Det
Metals	Tin	7440-31-5	mg/kg	34	31	91	1.50E+00	TSB-BR-02-0	Yes	Det	7.62E+00	R4 Mammal	Yes	No	0.2	Det
Metals	Titanium	7440-32-6	mg/kg	34	34	100	9.82E+02	TSB-BJ-02-0	Yes	Det	1.00E+03	ORNL Microbes	Yes	No	1	Det
Metals	Tungsten	7440-33-7	mg/kg	34	4	12	9.80E-01	SA25-0.5	LDF (No)	Det	4.00E+02	ORNL Microbes	Yes	No	0.002	Det
Metals	Uranium	7440-61-1	mg/kg	34	34	100	1.30E+00	TSB-AR-01-0(FD)	No	Det	2.50E+01	R4 Plants	Yes	No	0.05	Det
Metals	Vanadium	7440-62-2	mg/kg	34	34	100	5.34E+01	TSB-BJ-02-0	No	Det	7.80E+00	Eco-SSL Avian	Yes	Yes	7	Det
Metals	Zinc	7440-66-6	mg/kg	34	34	100	2.11E+02	TSB-BJ-01-0	No	Det	4.60E+01	Eco-SSL Avian	Yes	Yes	5	Det
Metals	Zirconium	7440-67-7	mg/kg	30	30	100	2.69E+01	TSB-AR-12-0	No	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	TEQ-M(0.5L)	mg/kg	28	28	100	2.17E-04	SA25-0.5	No BKG	Det	3.15E-06	R4 Mammal	Yes	Yes	70	Det
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	TEQ-A(0.5L)	mg/kg	28	28	100	4.57E-04	SA25-0.5	No BKG	Det	1.60E-05	R4 Avian	Yes	Yes	30	Det
OCPs	Aldrin	309-00-2	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	3.00E-02	R4 Inverts	no	NA	ND	0.07
OCPs	alpha-BHC	319-84-6	mg/kg	35	1	3	3.20E-04	PC-70_06/23/1999	No BKG	Det	3.00E-04	R4 Inverts	Yes	Yes	1	Det
OCPs	beta-BHC	319-85-7	mg/kg	35	24	69	5.90E-02	TSB-BR-03-0	No BKG	Det	3.00E-04	R4 Inverts	Yes	Yes	200	Det
OCPs	delta-BHC	319-86-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	NC	--	no	NA	ND	ND, No ESV
OCPs	gamma-BHC	58-89-9	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	3.10E-03	R4 Inverts	no	NA	ND	0.6
OCPs	Chlordane (total)	57-74-9	mg/kg	34	0	0	ND	--	No BKG	1.20E-02	2.90E-03	R4 alpha-chlordane used as a surrogate	no	NA	ND	4
OCPs	alpha-Chlordane	5103-71-9	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	2.90E-03	R4 Inverts	no	NA	ND	0.7
OCPs	gamma-Chlordane	5103-74-2	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	2.00E-02	R4 Inverts	no	NA	ND	0.1
OCPs	2,4-D	94-75-7	mg/kg	1	0	0	ND	--	No BKG	1.00E-02	NC	--	no	NA	ND	ND, No ESV
OCPs	Dalapon	75-99-0	mg/kg	1	0	0	ND	--	No BKG	2.60E-02	NC	--	no	NA	ND	ND, No ESV
OCPs	2,4-DB	94-82-6	mg/kg	1	1	100	6.00E-02	PC-70_06/23/1999	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
OCPs	2,4-DDD	53-19-0	mg/kg	30	0	0	ND	--	No BKG	1.20E-04	2.10E-02	Eco-SSL Mammal	no	NA	ND	0.006
OCPs	4,4'-DDD	72-54-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	2.10E-02	Eco-SSL Mammal	no	NA	ND	0.1
OCPs	2,4-DDE	3424-82-6	mg/kg	30	5	17	7.40E-03	TSB-AR-12-0	No BKG	Det	2.10E-02	Eco-SSL Mammal	Yes	No	0.4	Det
OCPs	4,4'-DDE	72-55-9	mg/kg	35	13	37	1.50E-02	SA25-0.5	No BKG	Det	2.10E-02	Eco-SSL Mammal	Yes	No	0.7	Det

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Tier 2 Screening	Retain for Tier 2 Screening?
General Chemistry	Ammonia	7664-41-7	mg/kg	--	ND, No ESV, See Table x-x	No
General Chemistry	Bromide	24959-67-9	mg/kg	No ESV	--	Yes
General Chemistry	Bromine	7726-95-6	mg/kg	Max HQ > 1	--	Yes
General Chemistry	Chlorate	14866-68-3	mg/kg	No ESV	--	Yes
General Chemistry	Chloric acid	7790-93-4	mg/kg	No ESV	--	Yes
General Chemistry	Chlorine	7782-50-5	mg/kg	No ESV	--	Yes
General Chemistry	Cyanide (total)	57-12-5	mg/kg	--	ND and SQLs<ESVs	No
General Chemistry	Fluoride	16984-48-8	mg/kg	--	Max HQ < 1	No
General Chemistry	Nitrate (as N)	14797-55-8 N	mg/kg	No ESV	--	Yes
General Chemistry	Nitrite (as N)	14797-65-0	mg/kg	--	Consistent with BKG	No
General Chemistry	Perchlorate	14797-73-0	mg/kg	Max HQ > 1	--	Yes
General Chemistry	ortho-Phosphate	11-36-9	mg/kg	No ESV	--	Yes
General Chemistry	Sulfate	14808-79-8	mg/kg	No ESV	--	Yes
Metals	Aluminum	7429-90-5	mg/kg	--	Consistent with BKG	No
Metals	Antimony	7440-36-0	mg/kg	--	Consistent with BKG	No
Metals	Arsenic	7440-38-2	mg/kg	--	Consistent with BKG	No
Metals	Barium	7440-39-3	mg/kg	--	Max HQ < 1	No
Metals	Beryllium	7440-41-7	mg/kg	--	Consistent with BKG	No
Metals	Boron	7440-42-8	mg/kg	--	Consistent with BKG	No
Metals	Cadmium	7440-43-9	mg/kg	Max HQ > 1, Inconsistent with BKG	--	Yes
Metals	Chromium (total)	7440-47-3	mg/kg	--	Max HQ < 1	No
Metals	Chromium VI	18540-29-9	mg/kg	--	Max HQ < 1	No
Metals	Cobalt	7440-48-4	mg/kg	--	Consistent with BKG	No
Metals	Copper	7440-50-8	mg/kg	--	Consistent with BKG	No
Metals	Iron	7439-89-6	mg/kg	--	Consistent with BKG	No
Metals	Lead	7439-92-1	mg/kg	Max HQ > 1, Inconsistent with BKG	--	Yes
Metals	Lithium	7439-93-2	mg/kg	--	Consistent with BKG	No
Metals	Magnesium	7439-95-4	mg/kg	--	Consistent with BKG	No
Metals	Manganese	7439-96-5	mg/kg	--	Consistent with BKG	No
Metals	Mercury	7439-97-6	mg/kg	--	Consistent with BKG	No
Metals	Molybdenum	7439-98-7	mg/kg	--	Consistent with BKG	No
Metals	Nickel	7440-02-0	mg/kg	--	Consistent with BKG	No
Metals	Niobium	7440-03-1	mg/kg	--	Consistent with BKG	No
Metals	Palladium	7440-05-3	mg/kg	--	Consistent with BKG	No
Metals	Phosphorous (as P)	7723-14-0	mg/kg	--	Consistent with BKG	No
Metals	Platinum	7440-06-4	mg/kg	--	Consistent with BKG	No
Metals	Selenium	7782-49-2	mg/kg	--	Consistent with BKG	No
Metals	Silicon	7440-21-3	mg/kg	--	Consistent with BKG	No
Metals	Silver	7440-22-4	mg/kg	--	Consistent with BKG	No
Metals	Strontium	7440-24-6	mg/kg	--	Consistent with BKG	No
Metals	Sulfur	7704-34-9	mg/kg	No ESV	--	Yes
Metals	Thallium	7440-28-0	mg/kg	--	Consistent with BKG	No
Metals	Tin	7440-31-5	mg/kg	--	Max HQ < 1	No
Metals	Titanium	7440-32-6	mg/kg	--	Max HQ = 1	No
Metals	Tungsten	7440-33-7	mg/kg	--	Consistent with BKG	No
Metals	Uranium	7440-61-1	mg/kg	--	Consistent with BKG	No
Metals	Vanadium	7440-62-2	mg/kg	--	Consistent with BKG	No
Metals	Zinc	7440-66-6	mg/kg	--	Consistent with BKG	No
Metals	Zirconium	7440-67-7	mg/kg	--	Consistent with BKG	No
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	TEQ-M(0.5L)	mg/kg	Max HQ > 1	--	Yes
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	TEQ-A(0.5L)	mg/kg	Max HQ > 1	--	Yes
OCPs	Aldrin	309-00-2	mg/kg	--	ND and SQLs<ESVs	No
OCPs	alpha-BHC	319-84-6	mg/kg	--	Max HQ = 1	No
OCPs	beta-BHC	319-85-7	mg/kg	Max HQ > 1	--	Yes
OCPs	delta-BHC	319-86-8	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	gamma-BHC	58-89-9	mg/kg	--	ND and SQLs<ESVs	No
OCPs	Chlordane (total)	57-74-9	mg/kg	ND, SQL>ESV	--	Yes
OCPs	alpha-Chlordane	5103-71-9	mg/kg	--	ND and SQLs<ESVs	No
OCPs	gamma-Chlordane	5103-74-2	mg/kg	--	ND and SQLs<ESVs	No
OCPs	2,4-D	94-75-7	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Dalapon	75-99-0	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	2,4-DB	94-82-6	mg/kg	No ESV	--	Yes
OCPs	2,4-DDD	53-19-0	mg/kg	--	ND and SQLs<ESVs	No
OCPs	4,4'-DDD	72-54-8	mg/kg	--	ND and SQLs<ESVs	No
OCPs	2,4-DDE	3424-82-6	mg/kg	--	Max HQ < 1	No
OCPs	4,4'-DDE	72-55-9	mg/kg	--	Max HQ < 1	No

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	# Samples	# Detects	% Detects	Detects		Fail Statistical Testing for Background Consistency? (a)	Max SQL	SLERA Criterion	Source	Is this Constituent Detected?	Is maximum detection > criterion?	Max HQ	Max SQL HQ
							Max	Max Location								
OCPs	4,4'-DDT	50-29-3	mg/kg	35	7	20	1.20E-02	TSB-BJ-06-0	No BKG	Det	2.10E-02	Eco-SSL Mammal	Yes	No	0.6	Det
OCPs	Calculated DDx (ND=0.5DL) (b)	REH DDx	mg/kg	35	13	37	2.84E-02	TSB-BJ-06-0	No BKG	Det	2.10E-02	Eco-SSL Mammal	Yes	Yes	1	Det
OCPs	Dicamba	1918-00-9	mg/kg	1	1	100	2.00E-03	PC-70_06/23/1999	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
OCPs	Dichloroprop	120-36-5	mg/kg	1	0	0	ND	--	No BKG	1.00E-02	NC	--	no	NA	ND	ND, No ESV
OCPs	Dieldrin	60-57-1	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	4.90E-03	Eco-SSL Mammal	no	NA	ND	0.4
OCPs	Dinoseb	88-85-7	mg/kg	1	0	0	ND	--	No BKG	5.40E-03	1.50E-02	R4 Inverts	no	NA	ND	0.4
OCPs	Endosulfan I	959-98-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	9.00E-04	R4 Inverts	no	NA	ND	2
OCPs	Endosulfan II	33213-65-9	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	NC	--	no	NA	ND	ND, No ESV
OCPs	Endosulfan sulfate	1031-07-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	7.00E-04	R4 Inverts	no	NA	ND	3
OCPs	Endrin	72-20-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	1.40E-03	R4 Avian	no	NA	ND	1
OCPs	Endrin aldehyde	7421-93-4	mg/kg	35	1	3	3.60E-03	TSB-AR-12-0	No BKG	Det	1.40E-03	R4 Endrin used as surrogate	Yes	Yes	3	Det
OCPs	Endrin ketone	53494-70-5	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	NC	--	no	NA	ND	ND, No ESV
OCPs	Heptachlor	76-44-8	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	1.60E-03	R4 Inverts	no	NA	ND	1
OCPs	Heptachlor epoxide	1024-57-3	mg/kg	35	0	0	ND	--	No BKG	2.00E-03	1.50E-04	R4 Inverts	no	NA	ND	10
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	94-74-6	mg/kg	1	1	100	1.20E+03	PC-70_06/23/1999	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
OCPs	Mecoprop	7085-19-0	mg/kg	1	0	0	ND	--	No BKG	5.40E+00	NC	--	no	NA	ND	ND, No ESV
OCPs	Methoxychlor	72-43-5	mg/kg	35	0	0	ND	--	No BKG	3.80E-03	2.10E-03	R4 Inverts	no	NA	ND	2
OCPs	2,4,5-T	93-76-5	mg/kg	1	0	0	ND	--	No BKG	1.00E-03	NC	--	no	NA	ND	ND, No ESV
OCPs	Toxaphene	8001-35-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-02	1.50E-04	R4 Inverts	no	NA	ND	400
OCPs	2,4,5-TP	93-72-1	mg/kg	1	0	0	ND	--	No BKG	1.00E-03	5.50E-02	R4 Inverts	no	NA	ND	0.02
OPPs	Chlorpyrifos	2921-88-2	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	3.00E-03	R4 Inverts	no	NA	ND	8
OPPs	Coumaphos	56-72-4	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Dasanit	115-90-2	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Demeton-O	298-03-3	mg/kg	4	0	0	ND	--	No BKG	4.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Demeton-S	126-75-0	mg/kg	4	0	0	ND	--	No BKG	1.70E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Diazinon	333-41-5	mg/kg	4	0	0	ND	--	No BKG	2.50E-02	3.70E-03	R4 Inverts	no	NA	ND	7
OPPs	Dichlorovos	62-73-7	mg/kg	4	0	0	ND	--	No BKG	2.70E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Dimethoate	60-51-5	mg/kg	4	0	0	ND	--	No BKG	2.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Disulfoton	298-04-4	mg/kg	4	0	0	ND	--	No BKG	5.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	EPN	2104-64-5	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Ethoprop	13194-48-4	mg/kg	4	0	0	ND	--	No BKG	1.70E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Famphur	52-85-7	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Fenthion	55-38-9	mg/kg	4	0	0	ND	--	No BKG	3.80E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Guthion	86-50-0	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	6.00E-05	R4 Inverts	no	NA	ND	300
OPPs	Malathion	121-75-5	mg/kg	4	0	0	ND	--	No BKG	1.70E-02	4.00E-05	R4 Inverts	no	NA	ND	400
OPPs	Merphos	150-50-5	mg/kg	4	0	0	ND	--	No BKG	3.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Methyl parathion	298-00-0	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Mevinphos	7786-34-7	mg/kg	4	0	0	ND	--	No BKG	1.70E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Naled	300-76-5	mg/kg	4	0	0	ND	--	No BKG	3.80E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Parathion	56-38-2	mg/kg	4	0	0	ND	--	No BKG	2.10E-02	1.90E-04	R4 Inverts	no	NA	ND	100
OPPs	Phorate	298-02-2	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Prothiophos	34643-46-4	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Ronnel	299-84-3	mg/kg	4	0	0	ND	--	No BKG	2.10E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Stirophos	22248-79-9	mg/kg	4	0	0	ND	--	No BKG	1.70E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Sulfotepp	3689-24-5	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Sulprofos	35400-43-2	mg/kg	4	0	0	ND	--	No BKG	1.50E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Thionazin	297-97-2	mg/kg	4	0	0	ND	--	No BKG	2.10E-02	NC	--	no	NA	ND	ND, No ESV
OPPs	Trichloronate	327-98-0	mg/kg	4	0	0	ND	--	No BKG	2.30E-02	NC	--	no	NA	ND	ND, No ESV
PAHs	Ramboll calculated HMW PAHs (c)	HMWPAHs(0.5L)	mg/kg	35	1	3	8.26E-02	TSB-AR-01-0-DUP	No BKG	Det	1.10E+00	Eco-SSL Mammal	Yes	No	0.08	Det
PAHs	Ramboll calculated LMW PAHs (c)	LMWPAHs(0.5L)	mg/kg	35	5	14	4.60E-01	TSB-AR-9-0	No BKG	Det	2.90E+01	Eco-SSL Inverts	Yes	No	0.02	Det
PAHs	Ramboll Calculated Total PAHs (c)	TPAHs(0.5L)	mg/kg	35	6	17	4.87E-01	TSB-AR-9-0	No BKG	Det	1.10E+00	HMW PAH as surrogate	Yes	No	0.4	Det
SVOCs	Aniline	62-53-3	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	Benzenethiol	108-98-5	mg/kg	30	0	0	ND	--	No BKG	1.30E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	Benzoic acid	65-85-0	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	1.00E-02	R4 Inverts	no	NA	ND	4
SVOCs	Benzyl alcohol	100-51-6	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	2.00E-03	R4 Inverts	no	NA	ND	20
SVOCs	bis(2-Chloro-1-methylethyl) ether	108-60-1	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	bis(2-Chloroethoxy)methane	111-91-1	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	bis(2-Chloroethyl) ether	111-44-4	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	35	3	9	1.00E+00	PC-70_06/23/1999	No BKG	Det	2.00E-02	R4 Avian	Yes	Yes	50	Det
SVOCs	4-Bromophenyl-phenyl ether	101-55-3	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	Butylbenzylphthalate	85-68-7	mg/kg	35	1	3	2.80E-01	TSB-BR-03-0	No BKG	Det	5.90E-01	R4 Inverts	Yes	No	0.5	Det

**TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Analyte Group	Analyte	CASRN	Units	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Tier 2 Screening	Retain for Tier 2 Screening?
OCPs	4,4'-DDT	50-29-3	mg/kg	--	Max HQ < 1	No
OCPs	Calculated DDx (ND=0.5DL) (b)	REH DDx	mg/kg	Although Max HQ = 1, this chemical was retained as a conservative measure.	--	Yes
OCPs	Dicamba	1918-00-9	mg/kg	No ESV	--	Yes
OCPs	Dichloroprop	120-36-5	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Dieldrin	60-57-1	mg/kg	--	ND and SQLs<ESVs	No
OCPs	Dinoseb	88-85-7	mg/kg	--	ND and SQLs<ESVs	No
OCPs	Endosulfan I	959-98-8	mg/kg	ND, SQL>ESV	--	Yes
OCPs	Endosulfan II	33213-65-9	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Endosulfan sulfate	1031-07-8	mg/kg	ND, SQL>ESV	--	Yes
OCPs	Endrin	72-20-8	mg/kg	--	ND and SQLs<ESVs	No
OCPs	Endrin aldehyde	7421-93-4	mg/kg	Max HQ > 1	--	Yes
OCPs	Endrin ketone	53494-70-5	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Heptachlor	76-44-8	mg/kg	--	ND and SQLs<ESVs	No
OCPs	Heptachlor epoxide	1024-57-3	mg/kg	ND, SQL>ESV	--	Yes
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	94-74-6	mg/kg	No ESV	--	Yes
OCPs	Mecoprop	7085-19-0	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Methoxychlor	72-43-5	mg/kg	ND, SQL>ESV	--	Yes
OCPs	2,4,5-T	93-76-5	mg/kg	--	ND, No ESV, See Table x-x	No
OCPs	Toxaphene	8001-35-2	mg/kg	ND, SQL>ESV	--	Yes
OCPs	2,4,5-TP	93-72-1	mg/kg	--	ND and SQLs<ESVs	No
OPPs	Chlorpyrifos	2921-88-2	mg/kg	ND, SQL>ESV	--	Yes
OPPs	Coumaphos	56-72-4	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Dasanit	115-90-2	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Demeton-O	298-03-3	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Demeton-S	126-75-0	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Diazinon	333-41-5	mg/kg	ND, SQL>ESV	--	Yes
OPPs	Dichlorovos	62-73-7	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Dimethoate	60-51-5	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Disulfoton	298-04-4	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	EPN	2104-64-5	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Ethoprop	13194-48-4	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Famphur	52-85-7	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Fenthion	55-38-9	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Guthion	86-50-0	mg/kg	ND, SQL>ESV	--	Yes
OPPs	Malathion	121-75-5	mg/kg	ND, SQL>ESV	--	Yes
OPPs	Merphos	150-50-5	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Methyl parathion	298-00-0	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Mevinphos	7786-34-7	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Naled	300-76-5	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Parathion	56-38-2	mg/kg	ND, SQL>ESV	--	Yes
OPPs	Phorate	298-02-2	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Prothiophos	34643-46-4	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Ronnel	299-84-3	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Stirophos	22248-79-9	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Sulfotepp	3689-24-5	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Sulprofos	35400-43-2	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Thionazin	297-97-2	mg/kg	--	ND, No ESV, See Table x-x	No
OPPs	Trichloronate	327-98-0	mg/kg	--	ND, No ESV, See Table x-x	No
PAHs	Ramboll calculated HMW PAHs (c)	HMWPAHs(0.5L)	mg/kg	--	Max HQ < 1	No
PAHs	Ramboll calculated LMW PAHs (c)	LMWPAHs(0.5L)	mg/kg	--	Max HQ < 1	No
PAHs	Ramboll Calculated Total PAHs (c)	TPAHs(0.5L)	mg/kg	--	Max HQ < 1	No
SVOCs	Aniline	62-53-3	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Benzenethiol	108-98-5	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Benzoic acid	65-85-0	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	Benzyl alcohol	100-51-6	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	bis(2-Chloro-1-methylethyl) ether	108-60-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	bis(2-Chloroethoxy)methane	111-91-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	bis(2-Chloroethyl) ether	111-44-4	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	Max HQ > 1	--	Yes
SVOCs	4-Bromophenyl-phenyl ether	101-55-3	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Butylbenzylphthalate	85-68-7	mg/kg	--	Max HQ < 1	No

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	# Samples	# Detects	% Detects	Detects		Fail Statistical Testing for Background Consistency? (a)	Max SQL	SLERA Criterion	Source	Is this Constituent Detected?	Is maximum detection > criterion?	Max HQ	Max SQL HQ
							Max	Max Location								
SVOCs	Carbazole	86-74-8	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	7.00E-02	R4 Inverts	no	NA	ND	0.5
SVOCs	4-Chloroaniline	106-47-8	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	1.00E+00	R4 Plants	no	NA	ND	0.04
SVOCs	2-Chloronaphthalene	91-58-7	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	2-Chlorophenol	95-57-8	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	6.00E-02	R4 Inverts	no	NA	ND	0.6
SVOCs	4-Chlorophenyl-phenyl ether	7005-72-3	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	Dibenzofuran	132-64-9	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	1.50E-01	R4 Inverts	no	NA	ND	0.2
SVOCs	3,3'-Dichlorobenzidine	91-94-1	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	3.00E-02	R4 Inverts	no	NA	ND	2
SVOCs	2,4-Dichlorophenol	120-83-2	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	5.00E-02	R4 Inverts	no	NA	ND	1
SVOCs	Diethylphthalate	84-66-2	mg/kg	35	0	0	ND	--	No BKG	3.80E-01	2.50E-01	R4 Inverts	no	NA	ND	2
SVOCs	2,4-Dimethylphenol	105-67-9	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	4.00E-02	R4 Inverts	no	NA	ND	2
SVOCs	Dimethylphthalate	131-11-3	mg/kg	35	0	0	ND	--	No BKG	3.80E-01	1.00E+01	R4 Inverts	no	NA	ND	0.04
SVOCs	Di-n-butylphthalate	84-74-2	mg/kg	35	1	3	5.00E-02	TSB-BR-03-0	No BKG	Det	1.10E-02	R4 Avian	Yes	Yes	5	Det
SVOCs	2,4-Dinitrophenol	51-28-5	mg/kg	31	0	0	ND	--	No BKG	3.50E-01	6.10E-02	R4 Mammal	no	NA	ND	6
SVOCs	2,4-Dinitrotoluene	121-14-2	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	6.00E+00	R4 Plants	no	NA	ND	0.01
SVOCs	2,6-Dinitrotoluene	606-20-2	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	4.00E+00	R4 Mammal	no	NA	ND	0.009
SVOCs	Di-n-octylphthalate	117-84-0	mg/kg	35	0	0	ND	--	No BKG	3.80E-01	9.10E-01	R4 Mammal	no	NA	ND	0.4
SVOCs	1,4-Dioxane	123-91-1	mg/kg	34	0	0	ND	--	No BKG	3.80E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	Hexachlorobenzene	118-74-1	mg/kg	36	1	3	8.60E-03	SA26-0.5	No BKG	Det	7.90E-02	R4 Avian	Yes	No	0.1	Det
SVOCs	Hexachlorobutadiene	87-68-3	mg/kg	35	0	0	ND	--	No BKG	7.00E-02	9.00E-03	R4 Inverts	no	NA	ND	8
SVOCs	Hexachlorocyclopentadiene	77-47-4	mg/kg	31	0	0	ND	--	No BKG	3.50E-01	1.00E-03	R4 Inverts	no	NA	ND	400
SVOCs	Hexachloroethane	67-72-1	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	2.40E-02	R4 Inverts	no	NA	ND	2
SVOCs	Isophorone	78-59-1	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	2-Methylphenol	95-48-7	mg/kg	31	0	0	ND	--	No BKG	1.30E-01	1.00E-01	R4 Inverts	no	NA	ND	1
SVOCs	3-Methylphenol & 4-Methylphenol	65794-96-9	mg/kg	30	0	0	ND	--	No BKG	7.20E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	4-Methylphenol	106-44-5	mg/kg	1	0	0	ND	--	No BKG	7.00E-02	8.00E-02	R4 Inverts	no	NA	ND	0.9
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	1	0	0	ND	--	No BKG	1.80E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	4-Chloro-3-methylphenol	59-50-7	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	2-Nitroaniline	88-74-4	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	2.00E-02	R4 Inverts	no	NA	ND	2
SVOCs	3-Nitroaniline	99-09-2	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	4-Nitroaniline	100-01-6	mg/kg	31	0	0	ND	--	No BKG	3.50E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	Nitrobenzene	98-95-3	mg/kg	35	0	0	ND	--	No BKG	3.80E-01	2.20E+00	R4 Inverts	no	NA	ND	0.2
SVOCs	2-Nitrophenol	88-75-5	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	4-Nitrophenol	100-02-7	mg/kg	31	0	0	ND	--	No BKG	3.50E-01	5.12E+00	R4 Mammal	no	NA	ND	0.07
SVOCs	n-Nitrosodiphenylamine	86-30-6	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	5.45E-01	R4 Mammal	no	NA	ND	0.07
SVOCs	Octachlorostyrene	29082-74-4	mg/kg	34	0	0	ND	--	No BKG	3.80E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	Pentachlorobenzene	608-93-5	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	5.00E-01	R4 Mammal	no	NA	ND	0.07
SVOCs	Pentachlorophenol	87-86-5	mg/kg	31	0	0	ND	--	No BKG	3.50E-01	2.10E+00	Eco-SSL Avian	no	NA	ND	0.2
SVOCs	Phenol	108-95-2	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	7.90E-01	R4 Plants	no	NA	ND	0.09
SVOCs	Phthalic acid	88-99-3	mg/kg	30	0	0	ND	--	No BKG	2.70E-01	NC	--	no	NA	ND	ND, No ESV
SVOCs	n-Nitroso-di-n-propylamine	621-64-7	mg/kg	31	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
SVOCs	Pyridine	110-86-1	mg/kg	34	0	0	ND	--	No BKG	1.80E+00	NC	--	no	NA	ND	ND, No ESV
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	1.80E-01	R4 Inverts	no	NA	ND	0.2
SVOCs	2,4,5-Trichlorophenol	95-95-4	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	4.00E+00	R4 Plants	no	NA	ND	0.02
SVOCs	2,4,6-Trichlorophenol	88-06-2	mg/kg	31	0	0	ND	--	No BKG	7.00E-02	9.94E+00	R4 Mammal	no	NA	ND	0.007
VOCs	Acetone	67-64-1	mg/kg	35	7	20	5.60E-01	PC-70_06/23/1999	No BKG	Det	4.00E-02	R4 Inverts	Yes	Yes	10	Det
VOCs	Acetonitrile	75-05-8	mg/kg	30	0	0	ND	--	No BKG	2.10E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Acetophenone	98-86-2	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
VOCs	t-Amyl methyl ether	994-05-8	mg/kg	4	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Azobenzene	103-33-3	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
VOCs	Benzene	71-43-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	1.20E-01	R4 Inverts	no	NA	ND	0.05
VOCs	Bromobenzene	108-86-1	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Bromochloromethane	74-97-5	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Bromodichloromethane	75-27-4	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Bromoform	75-25-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	7.00E-02	R4 Inverts	no	NA	ND	0.08
VOCs	Bromomethane	74-83-9	mg/kg	35	0	0	ND	--	No BKG	1.20E-02	2.00E-03	R4 Inverts	no	NA	ND	6
VOCs	2-Butanone	78-93-3	mg/kg	35	0	0	ND	--	No BKG	1.20E-02	1.00E+00	R4 Inverts	no	NA	ND	0.01
VOCs	n-Butylbenzene	104-51-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	1.00E+01	R4 Dimethylphthalate used as a surrogate	no	NA	ND	0.0006
VOCs	sec-Butylbenzene	135-98-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Carbon disulfide	75-15-0	mg/kg	31	0	0	ND	--	No BKG	3.00E-03	5.00E-03	R4 Inverts	no	NA	ND	0.6
VOCs	Carbon tetrachloride	56-23-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	5.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	Chlorinated fluorocarbon (Freon 113)	76-13-1	mg/kg	30	0	0	ND	--	No BKG	5.70E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	Chlorobenzene	108-90-7	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	2.40E+00	R4 Inverts	no	NA	ND	0.002
VOCs	Chloroethane	75-00-3	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Chloroform	67-66-3	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	5.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	Chloromethane	74-87-3	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	2-Chlorotoluene	95-49-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Tier 2 Screening	Retain for Tier 2 Screening?
SVOCs	Carbazole	86-74-8	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	4-Chloroaniline	106-47-8	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	2-Chloronaphthalene	91-58-7	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	2-Chlorophenol	95-57-8	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	4-Chlorophenyl-phenyl ether	7005-72-3	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Dibenzofuran	132-64-9	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	3,3'-Dichlorobenzidine	91-94-1	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	2,4-Dichlorophenol	120-83-2	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Diethylphthalate	84-66-2	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	2,4-Dimethylphenol	105-67-9	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	Dimethylphthalate	131-11-3	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Di-n-butylphthalate	84-74-2	mg/kg	Max HQ > 1	--	Yes
SVOCs	2,4-Dinitrophenol	51-28-5	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	2,4-Dinitrotoluene	121-14-2	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	2,6-Dinitrotoluene	606-20-2	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Di-n-octylphthalate	117-84-0	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	1,4-Dioxane	123-91-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Hexachlorobenzene	118-74-1	mg/kg	--	Max HQ < 1	No
SVOCs	Hexachlorobutadiene	87-68-3	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	Hexachlorocyclopentadiene	77-47-4	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	Hexachloroethane	67-72-1	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	Isophorone	78-59-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	2-Methylphenol	95-48-7	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	3-Methylphenol & 4-Methylphenol	65794-96-9	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	4-Methylphenol	106-44-5	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	4-Chloro-3-methylphenol	59-50-7	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	2-Nitroaniline	88-74-4	mg/kg	ND, SQL>ESV	--	Yes
SVOCs	3-Nitroaniline	99-09-2	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	4-Nitroaniline	100-01-6	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Nitrobenzene	98-95-3	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	2-Nitrophenol	88-75-5	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	4-Nitrophenol	100-02-7	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	n-Nitrosodiphenylamine	86-30-6	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Octachlorostyrene	29082-74-4	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Pentachlorobenzene	608-93-5	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Pentachlorophenol	87-86-5	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Phenol	108-95-2	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	Phthalic acid	88-99-3	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	n-Nitroso-di-n-propylamine	621-64-7	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	Pyridine	110-86-1	mg/kg	--	ND, No ESV, See Table x-x	No
SVOCs	1,2,4,5-Tetrachlorobenzene	95-94-3	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	2,4,5-Trichlorophenol	95-95-4	mg/kg	--	ND and SQLs≤ESVs	No
SVOCs	2,4,6-Trichlorophenol	88-06-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Acetone	67-64-1	mg/kg	Max HQ > 1	--	Yes
VOCs	Acetonitrile	75-05-8	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Acetophenone	98-86-2	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	t-Amyl methyl ether	994-05-8	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Azobenzene	103-33-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Benzene	71-43-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Bromobenzene	108-86-1	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Bromochloromethane	74-97-5	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Bromodichloromethane	75-27-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Bromoform	75-25-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Bromomethane	74-83-9	mg/kg	ND, SQL>ESV	--	Yes
VOCs	2-Butanone	78-93-3	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	n-Butylbenzene	104-51-8	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	sec-Butylbenzene	135-98-8	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Carbon disulfide	75-15-0	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Carbon tetrachloride	56-23-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Chlorinated fluorocarbon (Freon 113)	76-13-1	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Chlorobenzene	108-90-7	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Chloroethane	75-00-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Chloroform	67-66-3	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Chloromethane	74-87-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2-Chlorotoluene	95-49-8	mg/kg	--	ND, No ESV, See Table x-x	No

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	# Samples	# Detects	% Detects	Detects		Fail Statistical Testing for Background Consistency? (a)	Max SQL	SLERA Criterion	Source	Is this Constituent Detected?	Is maximum detection > criterion?	Max HQ	Max SQL HQ
							Max	Max Location								
VOCs	4-Chlorotoluene	106-43-4	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Cumene	98-82-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	4.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	p-Cymene	99-87-6	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	1.80E-01	R4 Inverts	no	NA	ND	0.03
VOCs	Dibromochloromethane	124-48-1	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,2-Dibromoethane	106-93-4	mg/kg	4	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Dibromomethane	74-95-3	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,2-Dichlorobenzene	95-50-1	mg/kg	35	0	0	ND	--	No BKG	3.50E-02	9.00E-02	R4 Inverts	no	NA	ND	0.4
VOCs	1,3-Dichlorobenzene	541-73-1	mg/kg	35	0	0	ND	--	No BKG	3.50E-02	8.00E-02	R4 Inverts	no	NA	ND	0.4
VOCs	1,4-Dichlorobenzene	106-46-7	mg/kg	35	0	0	ND	--	No BKG	3.50E-02	8.90E-01	R4 Mammal	no	NA	ND	0.04
VOCs	Dichlorodifluoromethane	75-71-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,1-Dichloroethane	75-34-3	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	1.40E-01	R4 Inverts	no	NA	ND	0.04
VOCs	1,2-Dichloroethane	107-06-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	4.00E-01	R4 Inverts	no	NA	ND	0.01
VOCs	1,1-Dichloroethene	75-35-4	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	4.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	cis-1,2-Dichloroethene	156-59-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	4.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	trans-1,2-Dichloroethene	156-60-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	4.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	1,2-Dichloroethylene	540-59-0	mg/kg	30	0	0	ND	--	No BKG	5.80E-04	4.00E-02	R4 Inverts	no	NA	ND	0.01
VOCs	1,2-Dichloropropane	78-87-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	2.80E-01	R4 Inverts	no	NA	ND	0.02
VOCs	1,3-Dichloropropane	142-28-9	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	2,2-Dichloropropane	594-20-7	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,1-Dichloropropene	563-58-6	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	cis-1,3-Dichloropropene	10061-01-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	trans-1,3-Dichloropropene	10061-02-6	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Diisopropyl ether	108-20-3	mg/kg	4	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	2,2-Dimethylpentane	590-35-2	mg/kg	30	0	0	ND	--	No BKG	2.90E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	2,3-Dimethylpentane	565-59-3	mg/kg	30	0	0	ND	--	No BKG	2.40E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	2,4-Dimethylpentane	108-08-7	mg/kg	30	0	0	ND	--	No BKG	2.10E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	3,3-Dimethylpentane	562-49-2	mg/kg	30	0	0	ND	--	No BKG	2.20E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	1,2-Diphenylhydrazine	122-66-7	mg/kg	30	0	0	ND	--	No BKG	3.60E-02	NC	--	no	NA	ND	ND, No ESV
VOCs	Ethanol	64-17-5	mg/kg	32	0	0	ND	--	No BKG	5.40E+01	NC	--	no	NA	ND	ND, No ESV
VOCs	Ethyl benzene	100-41-4	mg/kg	35	2	6	2.40E-04	TSB-AR-3-0	No BKG	Det	2.70E-01	R4 Inverts	Yes	No	0.0009	Det
VOCs	Ethyl tert-butyl ether	637-92-3	mg/kg	4	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Ethylene glycol	107-21-1	mg/kg	2	0	0	ND	--	No BKG	5.40E+01	3.10E-01	R4 Inverts	no	NA	ND	200
VOCs	3-Ethylpentane	617-78-7	mg/kg	30	0	0	ND	--	No BKG	2.20E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	n-Heptane	142-82-5	mg/kg	30	0	0	ND	--	No BKG	1.80E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	2-Methyl-Hexane	591-76-4	mg/kg	30	0	0	ND	--	No BKG	2.20E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	2-Hexanone	591-78-6	mg/kg	35	0	0	ND	--	No BKG	1.20E-02	3.60E-01	R4 Avian	no	NA	ND	0.03
VOCs	Methanol	67-56-1	mg/kg	2	0	0	ND	--	No BKG	5.40E+01	NC	--	no	NA	ND	ND, No ESV
VOCs	Methyl disulfide	624-92-0	mg/kg	30	0	0	ND	--	No BKG	2.30E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	Methyl iodide	74-88-4	mg/kg	30	0	0	ND	--	No BKG	2.70E-04	3.80E-02	LANL Bird	no	NA	ND	0.007
VOCs	Methyl tert-butyl ether	1634-04-4	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	Methylene Chloride	75-09-2	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	2.10E-01	R4 Inverts	no	NA	ND	0.03
VOCs	3-Methylhexane	589-34-4	mg/kg	30	0	0	ND	--	No BKG	1.50E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	2-Nitropropane	79-46-9	mg/kg	30	0	0	ND	--	No BKG	1.90E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1-Nonanal	124-19-6	mg/kg	30	0	0	ND	--	No BKG	9.40E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	4-Methyl-2-pentanone	108-10-1	mg/kg	35	1	3	4.00E-03	PC-70_06/23/1999	No BKG	Det	9.70E+00	LANL Mammal	Yes	No	0.0004	Det
VOCs	Phenyl Sulfide	139-66-2	mg/kg	30	0	0	ND	--	No BKG	3.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	n-Propylbenzene	103-65-1	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	1.00E+01	R4 Dimethylphthalate used as a surrogate	no	NA	ND	0.0006
VOCs	Styrene	100-42-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	1.20E+00	R4 Inverts	no	NA	ND	0.005
VOCs	tert Butyl alcohol	75-65-0	mg/kg	4	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	tert-Butylbenzene	98-06-6	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	7.00E-02	R4 Inverts	no	NA	ND	0.08
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	1.27E-01	R4 Mammal	no	NA	ND	0.05
VOCs	Tetrachloroethene	127-18-4	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	6.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	Toluene	108-88-3	mg/kg	35	6	17	4.60E-04	TSB-AR-04-0	No BKG	Det	1.50E-01	R4 Inverts	Yes	No	0.003	Det
VOCs	1,2,3-Trichlorobenzene	87-61-6	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	2.00E+01	R4 Inverts	no	NA	ND	0.0003
VOCs	1,2,4-Trichlorobenzene	120-82-1	mg/kg	35	0	0	ND	--	No BKG	3.50E-02	2.70E-01	R4 Mammal	no	NA	ND	0.1
VOCs	1,3,5-Trichlorobenzene	108-70-3	mg/kg	30	0	0	ND	--	No BKG	7.20E-04	7.00E-02	R4 Inverts	no	NA	ND	0.01
VOCs	1,1,1-Trichloroethane	71-55-6	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	4.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	1,1,2-Trichloroethane	79-00-5	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	3.20E-01	R4 Inverts	no	NA	ND	0.02
VOCs	Trichloroethene	79-01-6	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	6.00E-02	R4 Inverts	no	NA	ND	0.1
VOCs	Trichlorofluoromethane	75-69-4	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	1.64E+01	R4 Mammal	no	NA	ND	0.0004
VOCs	1,2,3-Trichloropropane	96-18-4	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	NC	--	no	NA	ND	ND, No ESV
VOCs	1,2,4-Trimethylbenzene	95-63-6	mg/kg	34	14	41	5.70E-04	TSB-AJ-02-0	No BKG	Det	9.00E-02	R4 Inverts	Yes	No	0.006	Det
VOCs	1,3,5-Trimethylbenzene	108-67-8	mg/kg	34	0	0	ND	--	No BKG	5.80E-03	1.60E-01	R4 Inverts	no	NA	ND	0.04
VOCs	2,2,3-Trimethylbutane	464-06-2	mg/kg	30	0	0	ND	--	No BKG	2.20E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	Vinyl acetate	108-05-4	mg/kg	30	0	0	ND	--	No BKG	1.90E-04	NC	--	no	NA	ND	ND, No ESV
VOCs	Vinyl chloride	75-01-4	mg/kg	35	0	0	ND	--	No BKG	5.80E-03	3.00E-02	R4 Inverts	no	NA	ND	0.2
VOCs	m,p-Xylene	136777-61-2	mg/kg	30	0	0	ND	--	No BKG	6.00E-04	NC	--	no	NA	ND	ND, No ESV

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Tier 2 Screening	Retain for Tier 2 Screening?
VOCs	4-Chlorotoluene	106-43-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Cumene	98-82-8	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	p-Cymene	99-87-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Dibromochloromethane	124-48-1	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,2-Dibromoethane	106-93-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Dibromomethane	74-95-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,2-Dichlorobenzene	95-50-1	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,3-Dichlorobenzene	541-73-1	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,4-Dichlorobenzene	106-46-7	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Dichlorodifluoromethane	75-71-8	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,1-Dichloroethane	75-34-3	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,2-Dichloroethane	107-06-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,1-Dichloroethene	75-35-4	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	cis-1,2-Dichloroethene	156-59-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	trans-1,2-Dichloroethene	156-60-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,2-Dichloroethylene	540-59-0	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,2-Dichloropropane	78-87-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,3-Dichloropropane	142-28-9	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2,2-Dichloropropane	594-20-7	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,1-Dichloropropene	563-58-6	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	cis-1,3-Dichloropropene	10061-01-5	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	trans-1,3-Dichloropropene	10061-02-6	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Diisopropyl ether	108-20-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2,2-Dimethylpentane	590-35-2	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2,3-Dimethylpentane	565-59-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2,4-Dimethylpentane	108-08-7	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	3,3-Dimethylpentane	562-49-2	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,2-Diphenylhydrazine	122-66-7	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Ethanol	64-17-5	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Ethyl benzene	100-41-4	mg/kg	--	Max HQ < 1	No
VOCs	Ethyl tert-butyl ether	637-92-3	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Ethylene glycol	107-21-1	mg/kg	ND, SQL>ESV	--	Yes
VOCs	3-Ethylpentane	617-78-7	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	n-Heptane	142-82-5	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2-Methyl-Hexane	591-76-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2-Hexanone	591-78-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Methanol	67-56-1	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Methyl disulfide	624-92-0	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Methyl iodide	74-88-4	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Methyl tert-butyl ether	1634-04-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Methylene Chloride	75-09-2	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	3-Methylhexane	589-34-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	2-Nitropropane	79-46-9	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1-Nonanal	124-19-6	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	4-Methyl-2-pentanone	108-10-1	mg/kg	--	Max HQ < 1	No
VOCs	Phenyl Sulfide	139-66-2	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	n-Propylbenzene	103-65-1	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Styrene	100-42-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	tert Butyl alcohol	75-65-0	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	tert-Butylbenzene	98-06-6	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,1,1,2-Tetrachloroethane	630-20-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,1,2,2-Tetrachloroethane	79-34-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Tetrachloroethene	127-18-4	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Toluene	108-88-3	mg/kg	--	Max HQ < 1	No
VOCs	1,2,3-Trichlorobenzene	87-61-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,2,4-Trichlorobenzene	120-82-1	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,3,5-Trichlorobenzene	108-70-3	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,1,1-Trichloroethane	71-55-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,1,2-Trichloroethane	79-00-5	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Trichloroethene	79-01-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Trichlorofluoromethane	75-69-4	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	1,2,3-Trichloropropane	96-18-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	1,2,4-Trimethylbenzene	95-63-6	mg/kg	--	Max HQ < 1	No
VOCs	1,3,5-Trimethylbenzene	108-67-8	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	2,2,3-Trimethylbutane	464-06-2	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Vinyl acetate	108-05-4	mg/kg	--	ND, No ESV, See Table x-x	No
VOCs	Vinyl chloride	75-01-4	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	m,p-Xylene	136777-61-2	mg/kg	--	ND, No ESV, See Table x-x	No

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	# Samples	# Detects	% Detects	Detects		Fail Statistical Testing for Background Consistency? (a)	Max SQL	SLERA Criterion	Source	Is this Constituent Detected?	Is maximum detection > criterion?	Max HQ	Max SQL HQ
							Max	Max Location								
VOCs	o-Xylene	95-47-6	mg/kg	30	0	0	ND	--	No BKG	3.30E-04	1.00E-01	R4 xylenes used as a surrogate	no	NA	ND	0.003
VOCs	Xylenes (total)	1330-20-7	mg/kg	35	0	0	ND	--	No BKG	1.20E-02	1.00E-01	R4 Inverts	no	NA	ND	0.1
PCBs	Aroclor-1016	12674-11-2	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1221	11104-28-2	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1232	11141-16-5	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1242	53469-21-9	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1248	12672-29-6	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1254	11097-69-1	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
PCBs	Aroclor-1260	11096-82-5	mg/kg	5	0	0	ND	--	No BKG	3.80E-02	4.10E-02	R4 Avian	no	NA	ND	0.9
TPH	Oil Range Organics	TPH-MOTOR	mg/kg	39	3	8	1.50E+02	SA26-0.5	No BKG	Det	8.12E+01	(Total Petroleum used as a	Yes	Yes	2	Det
TPH	Total petroleum hydrocarbon-diesel	TPH-diesel	mg/kg	34	1	3	5.10E+00	SA25-0.5	No BKG	Det	8.12E+01	(Total Petroleum used as a	Yes	No	0.06	Det
TPH	Total petroleum hydrocarbon-gasoline	TPH-gasoline	mg/kg	34	0	0	ND	--	No BKG	1.20E-01	8.12E+01	(Total Petroleum used as a	no	NA	ND	0.001
Organic Halides	Organic Halides (total)	TOH	mg/kg	1	1	100	1.80E+02	PC-70_06/23/1999	No BKG	Det	NC	--	Yes	NC	Det, No ESV	Det, No ESV
Other	bis(p-Chlorophenyl) disulfide	1142-19-4	mg/kg	30	0	0	ND	--	No BKG	2.20E-01	NC	--	no	NA	ND	ND, No ESV
Other	4-Chlorothiobisole	123-09-1	mg/kg	30	0	0	ND	--	No BKG	8.20E-03	NC	--	no	NA	ND	ND, No ESV
Other	p-chlorothiophenol	106-54-7	mg/kg	30	0	0	ND	--	No BKG	2.00E-01	NC	--	no	NA	ND	ND, No ESV
Other	2,2'-4,4'-Dichlorobenzil	Dichlorobenzil	mg/kg	30	0	0	ND	--	No BKG	1.40E-01	NC	--	no	NA	ND	ND, No ESV
Other	Diphenyl sulfone	127-63-9	mg/kg	30	0	0	ND	--	No BKG	7.10E-03	NC	--	no	NA	ND	ND, No ESV
Other	Hydroxymethyl phthalimide	118-29-6	mg/kg	30	0	0	ND	--	No BKG	4.70E-02	NC	--	no	NA	ND	ND, No ESV
Other	Phenyl Disulfide	882-33-7	mg/kg	30	0	0	ND	--	No BKG	3.10E-02	NC	--	no	NA	ND	ND, No ESV
Other	bis(p-Chlorophenyl) sulfone	80-07-9	mg/kg	30	0	0	ND	--	No BKG	3.50E-01	NC	--	no	NA	ND	ND, No ESV
RAD	Radium-226	Ra-226	pci/g	34	34	100	1.21E+00	SA25-0.5	No	Det	1.50E+00	LANL Min NOAEL TRV	Yes	No	0.8	Det
RAD	Radium-228	Ra-228	pci/g	34	34	100	2.13E+00	TSB-BR-06-0	No	Det	1.20E+00	LANL Min NOAEL TRV	Yes	Yes	2	Det
RAD	Thorium-228	Th-228	pci/g	31	30	97	2.17E+00	TSB-BR-06-0	No	Det	4.30E+01	LANL Min NOAEL TRV	Yes	No	0.05	Det
RAD	Thorium-230	Th-230	pci/g	31	31	100	1.44E+00	TSB-AR-01-0	No	Det	5.20E+01	LANL Min NOAEL TRV	Yes	No	0.03	Det
RAD	Thorium-232	Th-232	pci/g	31	30	97	2.36E+00	TSB-BR-04-0	No	Det	6.20E+00	LANL Min NOAEL TRV	Yes	No	0.4	Det
RAD	Uranium-234	U-234	pci/g	31	31	100	7.88E-01	TSB-AR-01-0(FD)	No	Det	4.40E+02	LANL Min NOAEL TRV	Yes	No	0.002	Det
RAD	Uranium-235	U-235	pci/g	31	8	26	2.17E-02	TSB-AR-01-0(FD)	No	Det	4.40E+02	LANL Min NOAEL TRV	Yes	No	0.00005	Det
RAD	Uranium-238	U-238	pci/g	31	31	100	4.70E-01	TSB-AR-01-0(FD)	No	Det	4.00E+02	LANL Min NOAEL TRV	Yes	No	0.001	Det

Notes:

- (a) Background screening only applicable to metals and radionuclides (NDEP 2009c). Fluoride, Nitrate, Nitrite and Sulfate have background data, but site data is not compared to background and are marked as NA. Constituents marked as having a low detect frequency (LDF) in either the site or background datasets were visually evaluated using Q-Q plots and boxplots. See Appendix C5 for details of background screening.
- (b) The calculated DDx sum is the sum of 5 DDT metabolites (2,4'-DDE, 2,4'-DDD, 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) for all locations except for 5 locations (PC-70 and SA24-27) where it is the sum of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT.
- (c) The maximum detected concentrations are presented for PAH summations. At the time of analysis, PQLs were only available for VOCs and SVOC data ENSR (2007). This resulted in samples with all non-detected PAHs having the overall maximums when substituting 1/2 the PQL.

= Number
% = Percent
2,4,5-T = 2,4,5-Trichlorophenoxyacetic acid
2,4,5-TP = Fenoprop
2,4-D = 2,4-Dichlorophenoxyacetic acid
2,4-DB = 4-(2,4-Dichlorophenoxy)butanoic acid

BHC = Hexachlorocyclohexane
BKG = Background
CASRN = Chemical Abstract Service Registration Number
Conc. = Concentration
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
DDx = Sum of all DDT, DDE, and DDD
DL = Detection limit
Eco-SSL = Ecological soil screening level (USEPA 2007)
EPN = O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate
ESV = Ecological screening level
FOD = Frequency of detection
HMW = High molecular weight
HQ = Hazard quotient
Inverts = Invertebrates
LANL = Los Alamos National Laboratory (LANL 2018)
LDF = Low detection frequency
LMW = Low molecular weight
Max = Maximum
mg/kg = Milligram per kilogram
Min = Minimum
N = Nitrogen

NA = Not applicable
NC = No criterion
ND = Not detected
NOAEL = No observe adverse effect level
OCPs = Organochlorine pesticides
OPPs = Organophosphate pesticides
ORNL = Oak Ridge National Laboratory (Efroymson et al. 1997)
OU-2 = Operable Unit 2
P = Phosphorous
PAHs = Polycyclic aromatic hydrocarbons
PCBs = Polychlorinated biphenyls
pci/g = Picocuries per gram
R4 = USEPA R4 (USEPA R4 2018)
R6 = USEPA R6 (USEPA R6 1999)
RAD = Radionuclide compounds
SLERA = Screening level ecological risk assessment
SVOCs = Semivolatile organic compounds
TEQ = Toxic equivalency quotient
TPH = Total petroleum hydrocarbons
TRV = Toxicity reference value
USEPA = United States Environmental Protection Agency
VOCs = Volatile organic compounds
Y/N = Yes or no

0.1	HQ<1
1	HQ = 1
5	1 < HQ < 10
50	10 < HQ ≤ 100
500	100 < HQ

References:

Efroymson, R.A., M.E. Will, and G.W. Suter II. 1997. Toxicological Benchmarks for Contaminants of Potential Concern for Effects on Soil and Litter Invertebrates and Heterotrophic Process: 1997 Revision. Oak Ridge National Laboratory, Oak Ridge, TN. ES/ER/TM-126/R2. (Available at <http://www.esd.ornl.gov/programs/ecorisk/documents/tm126r21.pdf>)

LANL: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)

NDEP. 2009c. Significance Levels for the Gilbert Toolbox of Background Comparison Tests, BMI Plant Sites and Common Areas Projects, Henderson, Nevada. July. (Prepared for NDEP by Neptune and Company).

USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.

USEPA Region 4. 2018. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).

USEPA Region 6. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities (EPA530-D-99-001A). August

TABLE 3-1. Screening-Level Evaluation of Chemicals: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Analyte Group	Analyte	CASRN	Units	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Tier 2 Screening	Retain for Tier 2 Screening?
VOCs	o-Xylene	95-47-6	mg/kg	--	ND and SQLs≤ESVs	No
VOCs	Xylenes (total)	1330-20-7	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1016	12674-11-2	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1221	11104-28-2	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1232	11141-16-5	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1242	53469-21-9	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1248	12672-29-6	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1254	11097-69-1	mg/kg	--	ND and SQLs≤ESVs	No
PCBs	Aroclor-1260	11096-82-5	mg/kg	--	ND and SQLs≤ESVs	No
TPH	Oil Range Organics	TPH-MOTOR	mg/kg	Max HQ > 1	--	Yes
TPH	Total petroleum hydrocarbon-diesel	TPH-diesel	mg/kg	--	Max HQ < 1	No
TPH	Total petroleum hydrocarbon-gasoline	TPH-gasoline	mg/kg	--	ND and SQLs≤ESVs	No
Organic Halides	Organic Halides (total)	TOH	mg/kg	No ESV	--	Yes
Other	bis(p-Chlorophenyl) disulfide	1142-19-4	mg/kg	--	ND, No ESV, See Table x-x	No
Other	4-Chlorothioanisole	123-09-1	mg/kg	--	ND, No ESV, See Table x-x	No
Other	p-chlorothiophenol	106-54-7	mg/kg	--	ND, No ESV, See Table x-x	No
Other	2,2'-/4,4'-Dichlorobenzil	Dichlorobenzil	mg/kg	--	ND, No ESV, See Table x-x	No
Other	Diphenyl sulfone	127-63-9	mg/kg	--	ND, No ESV, See Table x-x	No
Other	Hydroxymethyl phthalimide	118-29-6	mg/kg	--	ND, No ESV, See Table x-x	No
Other	Phenyl Disulfide	882-33-7	mg/kg	--	ND, No ESV, See Table x-x	No
Other	bis(p-Chlorophenyl) sulfone	80-07-9	mg/kg	--	ND, No ESV, See Table x-x	No
RAD	Radium-226	Ra-226	pci/g	--	Consistent with BKG	No
RAD	Radium-228	Ra-228	pci/g	--	Consistent with BKG	No
RAD	Thorium-228	Th-228	pci/g	--	Consistent with BKG	No
RAD	Thorium-230	Th-230	pci/g	--	Consistent with BKG	No
RAD	Thorium-232	Th-232	pci/g	--	Consistent with BKG	No
RAD	Uranium-234	U-234	pci/g	--	Consistent with BKG	No
RAD	Uranium-235	U-235	pci/g	--	Consistent with BKG	No
RAD	Uranium-238	U-238	pci/g	--	Consistent with BKG	No

**TABLE 3-2. Summary of Constituents Retained for Further Analysis: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	Max HQ	Max SQL HQ	Reason for Retaining Chemical for Further Quantitative Consideration
General Chemistry	Perchlorate	200	Det	Max HQ > 1
OCPs	beta-BHC	200	Det	Max HQ > 1
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	70	Det	Max HQ > 1
SVOCs	bis(2-Ethylhexyl)phthalate	50	Det	Max HQ > 1
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	30	Det	Max HQ > 1
VOCs	Acetone	10	Det	Max HQ > 1
Metals	Lead	10	Det	Max HQ > 1, Inconsistent with BKG
SVOCs	Di-n-butylphthalate	5	Det	Max HQ > 1
OCPs	Endrin aldehyde	3	Det	Max HQ > 1
General Chemistry	Bromine	2	Det	Max HQ > 1
Metals	Cadmium	2	Det	Max HQ > 1, Inconsistent with BKG
TPH	Oil Range Organics	2	Det	Max HQ > 1
OCPs	Calculated DDx (ND=0.5DL) (a)	1	Det	Although Max HQ = 1, this chemical was retained as a conservative measure.
General Chemistry	Bromide	Det, No ESV	Det, No ESV	No ESV
General Chemistry	Chlorate	Det, No ESV	Det, No ESV	No ESV
General Chemistry	Chloric acid	Det, No ESV	Det, No ESV	No ESV
General Chemistry	Chlorine	Det, No ESV	Det, No ESV	No ESV
General Chemistry	Nitrate (as N)	Det, No ESV	Det, No ESV	No ESV
General Chemistry	ortho-Phosphate	Det, No ESV	Det, No ESV	No ESV
General Chemistry	Sulfate	Det, No ESV	Det, No ESV	No ESV
Metals	Sulfur	Det, No ESV	Det, No ESV	No ESV
OCPs	2,4-DB	Det, No ESV	Det, No ESV	No ESV
OCPs	Dicamba	Det, No ESV	Det, No ESV	No ESV
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	Det, No ESV	Det, No ESV	No ESV
Organic Halides	Organic Halides (total)	Det, No ESV	Det, No ESV	No ESV
OCPs	Toxaphene	ND	400	ND, SQL>ESV
OPPs	Malathion	ND	400	ND, SQL>ESV
SVOCs	Hexachlorocyclopentadiene	ND	400	ND, SQL>ESV
OPPs	Guthion	ND	300	ND, SQL>ESV
VOCs	Ethylene glycol	ND	200	ND, SQL>ESV
OPPs	Parathion	ND	100	ND, SQL>ESV
SVOCs	Benzyl alcohol	ND	20	ND, SQL>ESV
OCPs	Heptachlor epoxide	ND	10	ND, SQL>ESV
OPPs	Chlorpyrifos	ND	8	ND, SQL>ESV
SVOCs	Hexachlorobutadiene	ND	8	ND, SQL>ESV
OPPs	Diazinon	ND	7	ND, SQL>ESV
SVOCs	2,4-Dinitrophenol	ND	6	ND, SQL>ESV
VOCs	Bromomethane	ND	6	ND, SQL>ESV
SVOCs	Benzoic acid	ND	4	ND, SQL>ESV
OCPs	Chlordane (total)	ND	4	ND, SQL>ESV
OCPs	Endosulfan sulfate	ND	3	ND, SQL>ESV
OCPs	Endosulfan I	ND	2	ND, SQL>ESV
OCPs	Methoxychlor	ND	2	ND, SQL>ESV
SVOCs	3,3'-Dichlorobenzidine	ND	2	ND, SQL>ESV
SVOCs	Diethylphthalate	ND	2	ND, SQL>ESV
SVOCs	2,4-Dimethylphenol	ND	2	ND, SQL>ESV
SVOCs	Hexachloroethane	ND	2	ND, SQL>ESV
SVOCs	2-Nitroaniline	ND	2	ND, SQL>ESV

Notes:

BHC = Hexachlorocyclohexane
 BKG = Background
 CASRN = Chemical Abstract Service Registration Number
 Det = Detected
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DDx = Sum of all DDT isomers and metabolites
 DL = Detection limit
 ESV = Ecological screening value
 HQ = Hazard quotient
 Max = Maximum
 ND = Not detected
 OCPs = Organochlorine pesticides
 SLERA = Screening-level ecological risk assessment

(a) While the maximum HQ for DDx = 1 which eliminates it from further evaluation in the OU-2 SLERA, this constituent group (sum of DDT + metabolites) was retained in the food web model as an additional confirmation that DDx does not pose a risk to terrestrial wildlife. Alpha-BHC, a bioaccumulative organochlorine pesticide, also had a maximum HQ = 1 but because beta-BHC is already included in the food web model, beta-BHC can serve as a surrogate for alpha-BHC.

SQL = Sample quantitation limit
 SVOCs = Semivolatile organic compounds
 TPH = Total petroleum hydrocarbons
 VOCs = Volatile organic compounds

**TABLE 4-1. Refined Screening-Level Evaluation of Chemicals Using UCLs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	CASRN	Units	Concentration (mg/kg)	SLERA Criterion	Source	UCL HQ	Retain for Direct Contact and FWM Evaluation	Reason for Retaining Chemical for Further Quantitative Consideration	Rationale for Exclusion from Further Evaluation
				95% UCL						
General Chemistry	Bromide	24959-67-9	mg/kg	1.78E+00	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Bromine	7726-95-6	mg/kg	5.16E+00	1.00E+01	R4 Plants	0.5	No	--	95% UCL HQ < 1
General Chemistry	Chlorate	14866-68-3	mg/kg	6.67E+00	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Chloric acid	7790-93-4	mg/kg	1.32E+00	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Chlorine	7782-50-5	mg/kg	9.14E+02	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Nitrate (as N)	14797-55-8_N	mg/kg	3.21E+01	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Perchlorate	14797-73-0	mg/kg	4.35E+00	1.20E-01	LANL Bird	40	Yes	95% UCL HQ > 1	--
General Chemistry	ortho-Phosphate	11-36-9	mg/kg	1.02E+00	NC	--	No ESV	Yes	Detected, No ESV	--
General Chemistry	Sulfate	14808-79-8	mg/kg	2.73E+02	NC	--	No ESV	Yes	Detected, No ESV	--
Metals	Cadmium	7440-43-9	mg/kg	2.12E-01	3.60E-01	Eco-SSL Mammal	0.6	No	--	95% UCL HQ < 1
Metals	Lead	7439-92-1	mg/kg	2.89E+01	1.10E+01	Eco-SSL Avian	3	Yes	95% UCL HQ > 1, Inconsistent with BKG	--
Metals	Sulfur	7704-34-9	mg/kg	4.07E+02	NC	--	No ESV	Yes	Detected, No ESV	--
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	TEQ-M(0.5L)	mg/kg	5.95E-05	3.15E-06	R4 Mammal	20	Yes	95% UCL HQ > 1	--
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	TEQ-A(0.5L)	mg/kg	1.22E-04	1.60E-05	R4 Avian	8	Yes	95% UCL HQ > 1	--
OCPs	beta-BHC	319-85-7	mg/kg	1.12E-02	3.00E-04	R4 Inverts	40	Yes	95% UCL HQ > 1	--
OCPs	Chlordane (total)	57-74-9	mg/kg	--	2.90E-03	R4 alpha-chlordane used as a surrogate	ND	Yes	ND, Max SQL HQ > 1	--
OCPs	2,4-DB	94-82-6	mg/kg	NA	NC	--	No ESV	Yes	Detected, No ESV	--
OCPs	Calculated DDx (ND=0.5DL) (a)	REH DDx	mg/kg	7.20E-03	2.10E-02	Eco-SSL Mammal	0.3	Yes	Although UCL HQ < 1, this chemical was retained as a conservative measure.	--
OCPs	Dicamba	1918-00-9	mg/kg	NA	NC	--	No ESV	Yes	Detected, No ESV	--
OCPs	Endosulfan I	959-98-8	mg/kg	--	9.00E-04	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OCPs	Endosulfan sulfate	1031-07-8	mg/kg	--	7.00E-04	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OCPs	Endrin aldehyde	7421-93-4	mg/kg	5.56E-04	1.40E-03	R4 Endrin used as surrogate	0.4	No	--	95% UCL HQ < 1
OCPs	Heptachlor epoxide	1024-57-3	mg/kg	--	1.50E-04	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	94-74-6	mg/kg	NA	NC	--	No ESV	Yes	Detected, No ESV	--
OCPs	Methoxychlor	72-43-5	mg/kg	--	2.10E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OCPs	Toxaphene	8001-35-2	mg/kg	--	1.50E-04	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OPPs	Chlorpyrifos	2921-88-2	mg/kg	--	3.00E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OPPs	Diazinon	333-41-5	mg/kg	--	3.70E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OPPs	Guthion	86-50-0	mg/kg	--	6.00E-05	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OPPs	Malathion	121-75-5	mg/kg	--	4.00E-05	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
OPPs	Parathion	56-38-2	mg/kg	--	1.90E-04	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Benzoic acid	65-85-0	mg/kg	--	1.00E-02	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Benzyl alcohol	100-51-6	mg/kg	--	2.00E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	bis(2-Ethylhexyl)phthalate	117-81-7	mg/kg	1.50E-01	2.00E-02	R4 Avian	8	Yes	95% UCL HQ > 1	--
SVOCs	3,3'-Dichlorobenzidine	91-94-1	mg/kg	--	3.00E-02	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Diethylphthalate	84-66-2	mg/kg	--	2.50E-01	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	2,4-Dimethylphenol	105-67-9	mg/kg	--	4.00E-02	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Di-n-butylphthalate	84-74-2	mg/kg	5.65E-02	1.10E-02	R4 Avian	5	Yes	95% UCL HQ > 1	--
SVOCs	2,4-Dinitrophenol	51-28-5	mg/kg	--	6.10E-02	R4 Mammal	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Hexachlorobutadiene	87-68-3	mg/kg	--	9.00E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Hexachlorocyclopentadiene	77-47-4	mg/kg	--	1.00E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	Hexachloroethane	67-72-1	mg/kg	--	2.40E-02	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
SVOCs	2-Nitroaniline	88-74-4	mg/kg	--	2.00E-02	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
VOCs	Acetone	67-64-1	mg/kg	8.31E-02	4.00E-02	R4 Inverts	2	Yes	95% UCL HQ > 1	--
VOCs	Bromomethane	74-83-9	mg/kg	--	2.00E-03	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
VOCs	Ethylene glycol	107-21-1	mg/kg	--	3.10E-01	R4 Inverts	ND	Yes	ND, Max SQL HQ > 1	--
TPH	Oil Range Organics	TPH-MOTOR	mg/kg	9.36E+01	8.12E+01	LANL Plant (Total Petroleum used as a surrogate)	1	No	--	95% UCL HQ = 1
Organic Halides	Organic Halides (total)	TOH	mg/kg	NA	NC	--	No ESV	Yes	Detected, No ESV	--

Notes:

- (a) Neptune provided Ramboll with a copy of the R codes used for the UCL calculation on May 18, 2020. The higher UCL value generated between the bias-corrected accelerated bootstrap method (BCa UCL) and the Student's t-test method was selected.
- (b) UCLs calculated using the BCa Bootstrap method were selected for all constituents, except for formaldehyde, where the maximum detected concentration was used because the UCL was greater than the max.
- (c) The calculated DDx sum is the sum of 5 DDT metabolites (2,4'-DDE, 2,4'-DDD, 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT) for all locations except for 5 locations (PC-70 and SA24-27) where it is the sum of 4,4'-DDE, 4,4'-DDD, and 4,4'-DDT.

0.1	HQ<1
1	HQ = 1
5	1 < HQ < 10
50	10 < HQ ≤ 100
500	100 < HQ

**TABLE 4-1. Refined Screening-Level Evaluation of Chemicals Using UCLs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

BHC = Hexachlorocyclohexane
CASRN = Chemical Abstract Service Registration Number
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
DDx = Sum of all DDT, DDE, and DDD
DL = Detection limit
Eco-SSL = Ecological soil screening level (USEPA 2007)
ESV = Ecological screening level
FWM = Food web model
HMW = High molecular weight
HQ = Hazard quotient
Inverts = Invertebrates
LANL = Los Alamos National Laboratory (LANL 2018)
LMW = Low molecular weight
mg/kg = Milligram per kilogram
NC = No criterion
ND = Not detected
SLERA = Screening level ecological risk assessment
SQL = Sample quantitation limit
UCL = Upper confidence level

References:

LANL: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)

NDEP. 2009c. Significance Levels for the Gilbert Toolbox of Background Comparison Tests, BMI Plant Sites and Common Areas Projects, Henderson, Nevada. July. (Prepared for NDEP by Neptune and Company).

USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.

USEPA Region 4. 2018. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).

TABLE 4-2. Summary of Constituents to be Carried forward into the Food Web Model and/or Direct Contact Screening: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Chemical Group	Chemical Name	95% UCL HQ	MAX SQL HQ	Reason for Retaining Chemical for Further Quantitative Consideration in Section 4	Bioaccumulative? (a)	Additional Evaluation(s) to be Conducted
General Chemistry	Perchlorate	40	Det	95% UCL HQ > 1	Yes	Screening specific to plants/invertebrates and FWM evaluation ^b
OCPs	beta-BHC	40	Det	95% UCL HQ > 1	Yes	Screening specific to plants/invertebrates and FWM evaluation
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	20	Det	95% UCL HQ > 1	Yes	FWM evaluation
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	8	Det	95% UCL HQ > 1	Yes	FWM evaluation
SVOCs	bis(2-Ethylhexyl)phthalate	8	Det	95% UCL HQ > 1	No	Screening specific to plants/invertebrates
SVOCs	Di-n-butylphthalate	5	Det	95% UCL HQ > 1	No	Screening specific to plants/invertebrates
Metals	Lead	3	Det	95% UCL HQ > 1, Inconsistent with BKG	Yes	Screening specific to plants/invertebrates and FWM evaluation
VOCs	Acetone	2	Det	95% UCL HQ > 1	No	Screening specific to plants/invertebrates
OCPs	Calculated DDx (ND=0.5DL) (a)	0.3	Det	Although UCL HQ < 1, this chemical was retained as a conservative measure.	Yes	Screening specific to plants/invertebrates and FWM evaluation ^c
OCPs	Toxaphene	ND	400	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
OPPs	Malathion	ND	400	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	Hexachlorocyclopentadiene	ND	400	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
OPPs	Guthion	ND	300	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
VOCs	Ethylene glycol	ND	200	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
OPPs	Parathion	ND	100	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	Benzyl alcohol	ND	20	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
OCPs	Heptachlor epoxide	ND	10	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
OPPs	Chlorpyrifos	ND	8	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
SVOCs	Hexachlorobutadiene	ND	8	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
OPPs	Diazinon	ND	7	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
SVOCs	2,4-Dinitrophenol	ND	6	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
VOCs	Bromomethane	ND	6	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	Benzoic acid	ND	4	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
OCPs	Chlordane (total)	ND	4	ND, Max SQL HQ > 1	YES	See uncertainty evaluation in Section 4.6
OCPs	Endosulfan sulfate	ND	3	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
OCPs	Endosulfan I	ND	2	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
OCPs	Methoxychlor	ND	2	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
SVOCs	3,3'-Dichlorobenzidine	ND	2	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	Diethylphthalate	ND	2	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	2,4-Dimethylphenol	ND	2	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6
SVOCs	Hexachloroethane	ND	2	ND, Max SQL HQ > 1	Yes	See uncertainty evaluation in Section 4.6
SVOCs	2-Nitroaniline	ND	2	ND, Max SQL HQ > 1	No	See uncertainty evaluation in Section 4.6

**TABLE 4-2: Summary of Constituents to be Carried forward into the Food Web Model and/or Direct Contact Screening: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	95% UCL HQ	MAX SQL HQ	Reason for Retaining Chemical for Further Quantitative Consideration in Section 4	Bioaccumulative? (a)	Additional Evaluation(s) to be Conducted
General Chemistry	Bromide	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	Chlorate	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	Chloric acid	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	Chlorine	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	Nitrate (as N)	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	ortho-Phosphate	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
General Chemistry	Sulfate	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
Metals	Sulfur	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
OCPs	2,4-DB	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
OCPs	Dicamba	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates
Organic Halides	Organic Halides (total)	No ESV	Det, No ESV	Detected, No ESV	No	Screening specific to plants/invertebrates

Notes:

- (a) Chemicals are designated as bioaccumulative (or otherwise) using USEPA 2000 and USEPA 2007 guidance.
- (b) Perchlorate not listed as bioaccumulative, but was included in the foodweb model evaluation.
- (c) While the UCL HQ for DDx is less than 1 which eliminates it from further evaluation in the OU-2 refined SLERA, this constituent group (sum of DDT + metabolites) was retained in the food web model as an additional confirmation that DDx does not pose a risk to terrestrial wildlife.

95% UCL= 95 percent upper confidence level of the mean
 BHC = Benzene hexachloride
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DDx = Sum of DDT and its isomers
 Det = Detected
 D/F = Dioxins and furans
 DL = Detection limit
 ESV = Ecological screening value
 FWM = Food web model

HQ = Hazard quotient
 ND = Not detected
 OPPs = Organophosphate pesticides
 OCPs = Organochlorine pesticides
 SQL = Sample quantitation limit
 SVOCs = Semivolatile organic compounds
 TEQ = Toxic equivalency quotient
 VOCs = Volatile organic compounds

USEPA. 2000. Bioaccumulation Testing And Interpretation For The Purpose Of Sediment Quality Assessment Status and Needs. EPA-823-R-00-001. February 2000. Table 4-2. Important Bioaccumulative Compounds.

USEPA. 2007. Attachment 4-1, Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. Revised April 2007.

**TABLE 4-3. Summary of OU-2 Refined SLERA Exposure Point Concentrations
Nevada Environmental Response Trust Site
Henderson, Nevada**

All concentrations in mg/kg.

Chemical Group	Chemical Name	OU-2		Background	
		95% UCL (a)	MAX	95% UCL	MAX
General Chemistry	Bromide	1.78E+00	7.60E+00	--	--
General Chemistry	Chlorate	6.30E+00	6.30E+00	--	--
General Chemistry	Chloric acid	1.32E+00	4.60E+00	--	--
General Chemistry	Chlorine	9.14E+02	4.41E+03	--	--
General Chemistry	Nitrate (as N)	3.21E+01	2.29E+02	1.23E+01	1.02E+02
General Chemistry	Perchlorate	4.35E+00	2.18E+01	--	--
General Chemistry	ortho-Phosphate	1.02E+00	2.00E+00	--	--
General Chemistry	Sulfate	2.73E+02	1.45E+03	3.44E+02	4.13E+03
Metals	Lead	2.89E+01	1.36E+02	9.24E+00	3.51E+01
Metals	Sulfur	4.07E+02	1.21E+03	--	--
Dioxins/Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	2.17E-04	--	--
Dioxins/Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	4.57E-04	--	--
OCPs	beta-BHC	1.12E-02	5.90E-02	--	--
OCPs	2,4-DB	NA	6.00E-02	--	--
OCPs	Calculated DDx (ND=0.5DL) (b)	7.20E-03	2.84E-02	--	--
OCPs	Dicamba	NA	2.00E-03	--	--
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	NA	1.20E+03	--	--
SVOCs	bis(2-Ethylhexyl)phthalate	1.50E-01	1.00E+00	--	--
SVOCs	Di-n-butylphthalate	5.00E-02	5.00E-02	--	--
VOCs	Acetone	8.31E-02	5.60E-01	--	--
Organic Halides	Organic Halides (total)	NA	1.80E+02	--	--

Notes:

% = Percent

2,4-DB = 4-(2,4-dichlorophenoxy)butyric acid

BHC = Hexachlorocyclohexane

BKG = Background

CASRN = Chemical Abstract Service Registration Number

DDD = Dichlorodiphenyldichloroethane

DDE = Dichlorodiphenyldichloroethylene

DDT = Dichlorodiphenyltrichloroethane

DDx = Sum of all DDT metabolites

DL = Detection limit

MAX = Maximum

mg/kg = milligram(s) per kilogram

N = Nitrogen

NA = Not applicable

ND = Nondetects

OCPs = Organochlorine pesticides

OU-2 = Operable Unit 2

SLERA = Screening level ecological risk assessment

SVOCs = Semivolatile organic compounds

TEQ = Toxic equivalency quotient

TPH = Total petroleum hydrocarbons

UCL = Upper confidence limit

(a) Calculation of 95% UCLs not possible for 2,4-DB, Dicamba, MCPA and Organic Halides (total) due to limited sample size (n=1). The 95% UCL for chlorate and di-n-butylphthalate was set to the maximum detection as the UCL was greater than the maximum.

(b) The calculated DDx sum is the sum of 5 DDT metabolites (2,4-DDE; 2,4-DDD; 4,4-DDE; 4,4-DDD; and 4,4-DDT) for all locations except for 5 locations (PC-70 and SA24-27) where it is the sum of 4,4-DDE, 4,4-DDD, and 4,4-DDT.

**TABLE 4-4. Ecological Screening Values for the Protection of Plants and Invertebrates
Nevada Environmental Response Trust Site
Henderson, Nevada**

All data in mg/kg

Chem Group	Chemical Name	Plant-Specific SLERA ESV	Source	Invertebrate-Specific SLERA ESV	Source	Invertebrate-Specific SLERA RSV	Source
General Chemistry	Bromide	NC	NC	NC	NC	--	--
General Chemistry	Chlorate	NC	NC	NC	NC	--	--
General Chemistry	Chloric Acid	NC	NC	NC	NC	--	--
General Chemistry	Chlorine	NC	NC	NC	NC	--	--
General Chemistry	Nitrate (as N)	NC	NC	NC	NC	--	--
General Chemistry	Perchlorate	40	LANL Plant NOAEL	3.5	LANL Invert NOAEL	35	LANL Invert LOAEL
General Chemistry	ortho-Phosphate	NC	NC	NC	NC	--	--
General Chemistry	Sulfate	NC	NC	NC	NC	--	--
Metals	Lead	120	Eco-SSL Plant	1700	Eco-SSL Inverts	--	--
Metals	Sulfur	NC	NC	NC	NC	--	--
OCPs	beta-BHC	0.1	gamma-BHC LANL Generic Plant NOAEL as surrogate	0.0003	R4 Inverts	5.6	Novais et al. (2010)
OCPs	2,4-DB	NC	NC	NC	NC	--	--
OCPs	Calculated DDx (ND=0.5DL) (c)	4.1	LANL Plant NOAEL	0.15	Eco-SSL ESV	1.5	Eco-SSL RSV
OCPs	Dicamba	NC	NC	NC	NC	--	--
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	NC	NC	NC	NC	--	--
SVOCs	bis(2-Ethylhexyl)phthalate	NC	NC	8.4	R4 Inverts	--	--
SVOCs	Di-n-butylphthalate	160	R4 Plant (also LANL ESV)	0.22	R4 Inverts	--	--
VOCs	Acetone	NC	NC	0.04	R4 Inverts	--	--
Organic Halides	Organic Halides (total)	NC	NC	NC	NC	--	--

Notes:

(a) All ESVs are in milligrams per kilogram (mg/kg).

(b) Hierarchy of surface soil ecological screening values are as follows (in order of preference): Eco-SSL; USEPA R4; USEPA R6; and ORNL.

(c) Invertebrate ESV from USEPA 2007 DDx Eco-SSL, geomean of 5 studies from Table 4.1 with organic matter from 0 to 2% and bioavailability score of 1, divided by a factor of 10 to reflect an acute to chronic value.

% = Percent

BHC = Hexachlorocyclohexane

DDT = Dichlorodiphenyltrichloroethane

mg/kg = Milligram per kilogram.

N = Nitrogen

NC = No criterion

**TABLE 4-4. Ecological Screening Values for the Protection of Plants and Invertebrates
Nevada Environmental Response Trust Site
Henderson, Nevada**

DDx = Sum of all DDT isomers and metabolities

Eco-SSL = Ecological Soil Screening Level

ESV = Ecological screening level

Inverts = Invertebrates

LANL = Los Alamos National Laboratory

NOAEL = No observed adverse effect level

OCPs = Organochlorine pesticides

R4 = USEPA Region 4

SLERA = Screening level ecological risk assessment

SVOCs = Semivolatile organic compounds

USEPA = United States Environmental Protection Agency

References:

Eco-SSL ESVs: USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.

LANL ESVs: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)

Novais et al. 2010: Novais, S.C., A.M.V.M. Soares, and M.J.B. Amorim. 2010. Can Avoidance in *Enchytraeus albidus* be Used as a Screening Parameter for Pesticides Testing? *Chemosphere* 79(2): 233-237.

USEPA R4 ESVs: USEPA Region 4. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).

**TABLE 4-5. Potential Risks to Terrestrial Plants from Soil: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	Terrestrial Plants Screening Value	Source	OU-2				Background		Next Step
				EPC		Potential Risks to Terrestrial Plants		BKG EPC	Potential Risks to Terrestrial Plants	
				95% UCL	MAX	95% UCL	MAX	95% UCL	95% UCL	
				mg/kg	mg/kg	HQ	HQ	mg/kg	HQ	
General Chemistry	Bromide	NC	NC	1.78E+00	7.60E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chlorate	NC	NC	6.30E+00	6.30E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chloric acid	NC	NC	1.32E+00	4.60E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chlorine	NC	NC	9.14E+02	4.41E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Nitrate (as N)	NC	NC	3.21E+01	2.29E+02	No ESV	No ESV	1.23E+01	No ESV	No criteria, treated as an uncertainty
General Chemistry	Perchlorate	4.00E+01	LANL Plant NOAEL	4.35E+00	2.18E+01	0.1	0.5	--	No BKG	No further screening needed
General Chemistry	ortho-Phosphate	NC	NC	1.02E+00	2.00E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Sulfate	NC	NC	2.73E+02	1.45E+03	No ESV	No ESV	3.44E+02	No ESV	No criteria, treated as an uncertainty
Metals	Lead	1.20E+02	Eco-SSL Plant	2.89E+01	1.36E+02	0.2	1	9.24E+00	0.08	No further screening needed
Metals	Sulfur	NC	NC	4.07E+02	1.21E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	beta-BHC	1.00E-01	gamma-BHC LANL Generic Plant NOAEL as surrogate	1.12E-02	5.90E-02	0.1	0.6	--	No BKG	No further screening needed
OCPs	2,4-DB	NC	NC	NA	6.00E-02	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	Calculated DDx (ND=0.5DL)	4.10E+00	LANL Plant NOAEL	7.20E-03	2.84E-02	0.002	0.007	--	No BKG	No further screening needed
OCPs	Dicamba	NC	NC	NA	2.00E-03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	NC	NC	NA	1.20E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
SVOCs	bis(2-Ethylhexyl)phthalate	NC	NC	1.50E-01	1.00E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
SVOCs	Di-n-butylphthalate	1.60E+02	R4 Plant (also LANL ESV)	5.00E-02	5.00E-02	0.0003	0.0003	--	No BKG	No further screening needed
VOCS	Acetone	NC	NC	8.31E-02	5.60E-01	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
Organic Halides	Organic Halides (total)	NC	NC	NA	1.80E+02	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty

Notes:

0.5	HQ<1
1	HQ = 1
10	1< HQ ≤10

% = Percent
 2,4-DB = 4-(2,4-Dichlorophenoxy)butanoic acid
 BHC = Hexachlorocyclohexane
 BKG = Background
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DDx = Sum of all DDT isomers and metabolites
 DL = Detection limit
 Eco-SSL = Ecological soil screening level
 EPC = Exposure point concentration
 ESV = Ecological screening value
 HQ = Hazard quotient
 LANL = Los Alamos National Laboratory
 MAX = Maximum
 mg/kg = Milligram per kilogram
 N = Nitrogen

HQ = Not applicable
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effect level
 OCP = Organochlorine pesticides
 OU-2 = Operable Unit 2
 R4 = USEPA Region 4
 SVOC = Semivolatile organic compounds
 TPH = Total petroleum hydrocarbons
 UCL = Upper confidence limit
 USEPA = United States Environmental Protection Agency

Eco-SSL ESVs: USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.
 LANL ESVs: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)
 USEPA R4 ESVs: USEPA Region 4. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).

TABLE 4-6. Potential Risks to Terrestrial Invertebrates from Soil: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Chemical Group	Chemical Name	Terrestrial Invertebrates Screening Value	Source	OU-2				Background		Next Step
				EPC		Potential Risks to Terrestrial Invertebrates		BKG EPC	Potential Risks to Terrestrial Invertebrates	
				95% UCL mg/kg	MAX mg/kg	95% UCL HQ	MAX HQ	95% UCL mg/kg	95% UCL HQ	
General Chemistry	Bromide	NC	NC	1.78E+00	7.60E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chlorate	NC	NC	6.30E+00	6.30E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chloric acid	NC	NC	1.32E+00	4.60E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Chlorine	NC	NC	9.14E+02	4.41E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Nitrate (as N)	NC	NC	3.21E+01	2.29E+02	No ESV	No ESV	1.23E+01	No ESV	No criteria, treated as an uncertainty
General Chemistry	Perchlorate (1)	3.50E+00	LANL Invert NOAEL (ESV)	4.35E+00	2.18E+01	1	6	--	No BKG	No further screening needed
		3.50E+01	LANL Invert LOAEL (RSV)	4.35E+00	2.18E+01	0.1	0.6	--	No BKG	No further screening needed
General Chemistry	ortho-Phosphate	NC	NC	1.02E+00	2.00E+00	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
General Chemistry	Sulfate	NC	NC	2.73E+02	1.45E+03	No ESV	No ESV	3.44E+02	No ESV	No criteria, treated as an uncertainty
Metals	Lead	1.70E+03	Eco-SSL Inverts	2.89E+01	1.36E+02	0.02	0.08	9.24E+00	0.005	No further screening needed
Metals	Sulfur	NC	NC	4.07E+02	1.21E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	beta-BHC (2)	3.00E-04	R4 Inverts (ESV)	1.12E-02	5.90E-02	40	200	--	No BKG	Location-specific screening conducted
		5.60E+00	Novais et al. (2010) (RSV)	1.12E-02	5.90E-02	0.002	0.01	--	No BKG	No further screening needed
OCPs	2,4-DB	NC	NC	NA	6.00E-02	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	Calculated DDx (ND=0.5DL) (3)	1.50E-01	Eco-SSL (ESV)	7.20E-03	2.84E-02	0.05	0.2	--	No BKG	No further screening needed
		1.50E+00	Eco-SSL (RSV)	7.20E-03	2.84E-02	0.005	0.02	--	No BKG	No further screening needed
OCPs	Dicamba	NC	NC	NA	2.00E-03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	NC	NC	NA	1.20E+03	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty
SVOCs	bis(2-Ethylhexyl)phthalate	8.40E+00	R4 Inverts	1.50E-01	1.00E+00	0.02	0.1	--	No BKG	No further screening needed
SVOCs	Di-n-butylphthalate	2.20E-01	R4 Inverts	5.00E-02	5.00E-02	0.2	0.2	--	No BKG	No further screening needed
VOCs	Acetone	4.00E-02	R4 Inverts	8.31E-02	5.60E-01	2	10	--	No BKG	Location-specific screening conducted
Organic Halides	Organic Halides (total)	NC	NC	NA	1.80E+02	No ESV	No ESV	--	No ESV	No criteria, treated as an uncertainty

Notes:

0.5	HQ < 1
1	HQ = 1
10	1 < HQ ≤ 10
100	10 < HQ ≤ 100
1,000	100 < HQ

2,4-DB = 4-(2,4-Dichlorophenoxy)butanoic acid
 % = Percent
 BHC = Hexachlorocyclohexane
 BKG = Background
 CASRN = Chemical Abstract Service Registry Number
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DDx = Sum of all DDT isomers and metabolites
 DL = Detection limit
 EC10 = Exposure concentration that effects 10% of population
 Eco-SSL = Ecological soil screening level
 EPC = Exposure point concentration
 ESV = Ecological screening value
 HQ = Hazard quotient
 Inverts = Invertebrates
 LANL = Los Alamos National Laboratory
 LOAEL = Lowest observed adverse effect level

MAX = Maximum
 LC50 = Lethal concentration for 50% of population
 mg/kg = Milligram per kilogram
 N = Nitrogen
 NA = Not applicable
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effect level
 OCP = Organochlorine pesticides
 OU-2 = Operable Unit 2
 R4 = USEPA Region 4
 RSV = Refined screening value
 SVOC = Semivolatile organic compounds
 TPH = Total petroleum hydrocarbons
 TRV = Toxicity reference value
 UCL = Upper confidence limit
 UCL = Upper confidence limit
 USEPA = United States Environmental Protection Agency

- The LANL database contains both NOAEL and LOAEL TRVs, which are used for ESVs and RSVs, respectively. The NOAEL TRV provides an initial screening step to characterize risk to invertebrates with the LOAEL TRV providing a more realistic look at the risk to invertebrates. For perchlorate, soil concentrations were compared to both ESVs and RSVs.
- Novais et al. (2010) study shows a reproductive No Observed Effect Level (NOEL) of 18 mg/kg and a mortality NOEL of 5.6 mg/kg was reported for the potworm (soil invertebrate) after a 42-day exposure; the lower mortality endpoint is used as the RSV in this table to characterize risk to invertebrates due to beta-BHC.
- This ESV is from the Eco-SSL ESV (Eco-SSL 2007) and is the geomean of 5 studies from Table 4.1 with organic matter from 0 to 2% and bioavailability score of 1, divided by a factor of 10 to reflect an acute to chronic value. The RSV is also from this document and is the geomean of 5 studies from Table 4.1 with organic matter from 0 to 2% and bioavailability score of 1, reflecting the acute LC50 value.

References:

Eco-SSL ESVs and RSVs: USEPA. 2007. Ecological Soil Screening Level (Eco-SSL) Guidance and Documents. <https://www.epa.gov/risk/ecological-soil-screening-level-eco-ssl-guidance-and-documents>.
 LANL ESVs and RSVs: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New Mexico. (N3B 2020)
 Novais et al. 2010: Novais, S.C., A.M.V.M. Soares, and M.J.B. Amorim. 2010. Can Avoidance in *Enchytraeus albidus* be Used as a Screening Parameter for Pesticides Testing? *Chemosphere* 79(2): 233-237.
 USEPA R4 ESVs and RSVs: USEPA Region 4. Regional Ecological Risk Assessment (ERA) Supplemental Guidance. <https://www.epa.gov/risk/regional-ecological-risk-assessment-era-supplemental-guidance> (Accessed April 16, 2018).

**TABLE 4-7a. Summary of Wildlife Food Web Input Variables and Receptor Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Guild	Name	Species	Water IR w (L/day)	Food IR f (kg ww/day)	Surface Soil IR ss (kg dw/day)	Terrestrial Dietary Makeup			BW (kg)	Range (ha)	ED (unitless)	AUF (unitless)	
						Plants / Surrogate (a) (%)	Inverts (%)	Mammals (%)				Species- Specific (≤1)	Conser- vative
Carnivore	Coopers Hawk	<i>Accipiter cooperii</i>	3.25E-02	6.77E-02	0.00E+00	0.0	0.0	1.0	4.10E-01	203	1	1	1
Carnivore	Kit Fox	<i>Vulpes macrotis</i>	0.00E+00	1.75E-01	1.47E-03	0.0	0.0	1.0	1.78E+00	1120	1	0.24	1
Carnivore	Western Burrowing Owl	<i>Athene cunicularia</i>	1.66E-02	4.34E-02	6.52E-04	0.0	0.75	0.25	1.51E-01	113	1	1	1
Insectivore	American Robin	<i>Turdus migratorius</i>	1.10E-02	9.76E-02	4.88E-04	0.50	0.50	0.0	8.10E-02	0.48	1	1	1
Insectivore	Desert Shrew	<i>Nitiosorex crawfordi</i>	6.88E-04	2.30E-03	8.98E-05	0.15	0.80	0.05	4.00E-03	0.30	1	1	1
Insectivore	Fringed Myotis	<i>Myotis thysanodes</i>	1.14E-03	4.65E-03	0.00E+00	0.2	0.8	0.0	7.00E-03	29700	1	0.0090	1
Omnivore	Raccoon	<i>Procyon lotor</i>	4.68E-01	1.14E+00	2.67E-02	0.6	0.4	0.0	5.62E+00	630	1	0.43	1
Herbivore	Mourning Dove	<i>Zenaida macroura</i>	1.32E-02	1.20E-02	2.79E-04	1.0	0.0	0.0	1.07E-01	6,265	1	0.043	1
Herbivore	Great Basin Pocket Mouse	<i>Perognathus parvus</i>	0.00E+00	4.04E-03	1.76E-04	0.9	0.1	0.0	2.30E-02	1.09	1	1	1

Notes:

The sources of the receptor parameter information are found in Appendix F.

% = Percent

AUF = Area use factor

BW = Body weight

ED = Exposure duration - percentage of the year the receptor spends in the area

ha = Hectares

Inverts = Invertebrates

IR f = Ingestion rate of food (wet weight)

IR sd = Ingestion rate of sediment (dry weight)

IR ss = Ingestion rate of surface soil (dry weight)

IR w = Ingestion rate of water

kg = Kilograms

kg dw/day = Kilograms dry weight per day

kg ww/day = Kilograms wet weight per day

L/day = Liters per day

OU-2 = Operable Unit 2

- (a) Plants used as a surrogate in the terrestrial dietary makeup for bats and desert shrew. Although both receptors eat primarily invertebrates, it is predominantly invertebrates such as crickets and beetles and not earthworms. As uptake equations into invertebrates is based on earthworms, the use of plants as a surrogate more realistically conveys the risk to these receptors.

OU-2 Size: 662 acres

268 hectares

AUF (unitless) = site size(ha)/range (ha)

**TABLE 4-7b. Toxicity Reference Values for Mammals and Birds
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Mammal TRV (mg/kg-bw/day)				Avian TRV (mg/kg-bw/day)			
		NOAEL		LOAEL		NOAEL		LOAEL	
General Chemistry	Perchlorate	6.4	a	32	a	13	a	26	a
Metals	Lead	4.7	b	8.9	b1	1.63	b	3.26	b1
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	8.40E-06	c	3.10E-05	c	NA		NA	
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	NA		NA		1.40E-05	c	1.40E-04	c
OCPs	beta-BHC	0.4	d	2	d	0.56	d5	2.25	d5
OCPs	Calculated DDX (ND=0.5DL)	0.147	b6	0.735	b1, 6	0.227	b6	2.27	b1, 6

Notes:

BHC = Hexachlorocyclohexane

DDx = Sum of all DDT metabolites

DL = Detection limit

Eco-SSL = Ecological soil screening level

LOAEL = Lowest observed adverse effects level

mg/kg-bw/day = Milligrams per kilogram body weight per day

NA = Not applicable

ND = Non-detected concentrations

NOAEL = No observed adverse effects level

OCPs = Organophosphate pesticides

TCDD = 2,3,7,8-Tetrachlorodibenzodioxin

TEQ = Toxic equivalent quotient

TRV = Toxicity Reference Value

- (a) USACHPPM 2007: Health Effects Research Department. 2007. Wildlife Toxicity Assessment for Perchlorate (USACHPPM Document No. 87-MA02T6-05D). February. Tables 6 and 7.
 - (b) Eco-SSL: United States Environmental Protection Agency (USEPA). 2007. Guidance for Developing Ecological Soil Screening Levels. Washington, D.C.: USEPA, Office of Solid Waste and Emergency Response. April.
 - (c) TSRF 2016: Tittabawassee & Saginaw River & Floodplain (TSRF). 2016. Toxicity Reference Value Derivation. September.
 - (d) Sample et al. 1996: Sample, B.E., D.M. Opresko, and G.W. Suter II. 1996. Toxicological Benchmarks for Wildlife: 1996 Revision (ES/ER/TM-86/R3). Oak Ridge, Tennessee: Risk Assessment Program, Health Sciences Research Division. June. Test Species NOAEL and LOAEL in Table 12.
- 1 Same study as NOAEL from Eco-SSL.
 - 2 As the Eco-SSL does not present a LOAEL, the LOAEL is calculated as the geometric mean of the survival, growth, and reproduction LOAELs from the survival, growth, and reproduction studies that was used for the Eco-SSL NOAEL.
 - 3 Value for 2,3,7,8-TCDD used as a surrogate.
 - 4 If the NOAEL was not reported, it is assumed to be 1/10 of the LOAEL. If the LOAEL is not reported, it is assumed to be 10x the NOAEL.
 - 5 BHC mixed isomers used as a surrogate.
 - 6 TRV for DDT used as a surrogate.

**TABLE 4-8. Terrestrial Wildlife Food Web Model Maximum Hazard Quotient Summaries: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Cooper's Hawk		Kit Fox		Western Burrowing Owl		American Robin		Desert Shrew		Fringed Myotis		Raccoon		Mourning Dove		Great Basin Pocket Mouse			
		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)			
		MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL
		HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ
General Chemistry	Perchlorate	0.04	0.02	0.05	0.01	0.2	0.08	0.9	0.4	0.8	0.2	0.9	0.2	0.3	0.06	0.09	0.05	0.3	0.06		
Metals	Lead	0.3	0.2	0.09	0.05	1	0.7	3	2	1	0.7	0.8	0.4	0.3	0.1	0.3	0.1	0.3	0.1		
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	NA	NA	0.02	0.006	NA	NA	NA	NA	3	0.8	3	0.7	0.5	0.1	NA	NA	0.3	0.08		
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	0.004	0.0004	NA	NA	2	0.2	4	0.4	NA	NA	NA	NA	NA	NA	0.09	0.009	NA	NA		
OCPs	beta-BHC	0.1	0.03	0.1	0.02	0.1	0.03	0.1	0.03	0.2	0.03	0.1	0.03	0.02	0.005	0.0007	0.0002	0.007	0.001		
OCPs	Calculated DDx (ND=0.5DL)	0.2	0.02	0.2	0.03	0.1	0.01	0.1	0.01	0.2	0.04	0.2	0.04	0.03	0.006	0.0007	0.00007	0.008	0.002		
Group	Chemical	Cooper's Hawk		Kit Fox		Western Burrowing Owl		American Robin		Desert Shrew		Fringed Myotis		Raccoon		Mourning Dove		Great Basin Pocket Mouse			
		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 0.24)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 0.009)		Realistic HQ (AUF = 0.43)		Realistic HQ (AUF = 0.043)		Realistic HQ (AUF = 1)			
		MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL	MAX/NOAEL	MAX/LOAEL
		HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ
General Chemistry	Perchlorate	Same HQ	Same HQ	0.01	0.003	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.008	0.002	0.1	0.03	0.004	0.002	Same HQ	Same HQ		
Metals	Lead	Same HQ	Same HQ	0.02	0.01	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.007	0.004	0.1	0.06	0.01	0.006	Same HQ	Same HQ		
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	Same HQ	Same HQ	0.006	0.002	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.02	0.007	0.2	0.06	NA	NA	Same HQ	Same HQ		
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	Same HQ	Same HQ	NA	NA	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	NA	NA	NA	NA	0.004	0.0004	Same HQ	Same HQ		
OCPs	beta-BHC	Same HQ	Same HQ	0.03	0.006	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.001	0.0003	0.01	0.002	0.00003	0.000008	Same HQ	Same HQ		
OCPs	Calculated DDx (ND=0.5DL)	Same HQ	Same HQ	0.04	0.008	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.002	0.0003	0.01	0.003	0.00003	0.000003	Same HQ	Same HQ		

Notes:

- AUF = Area use factor
- BHC = Hexachlorocyclohexane
- DDD = Dichlorodiphenyldichloroethane
- DDE = Dichlorodiphenyldichloroethylene
- DDT = Dichlorodiphenyltrichloroethane
- DDx = DDx includes DDT, DDD, and DDE isomers for the evaluation of potential risks related to the chemical mixture
- DL = Detection limit
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- MAX = Maximum
- NA = Not applicable
- ND = Non-detects
- NOAEL = No observed adverse effects level
- OCPs = Organochlorine pesticides
- TEQ = Toxicity equivalent quotient

0.1	HQ<1
1	HQ = 1
5	1< HQ <10

**TABLE 4-9. Terrestrial Wildlife Food Web Model UCL Hazard Quotient Summaries using NOAEL and LOAEL TRVs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Cooper's Hawk		Kit Fox		Western Burrowing Owl		American Robin		Desert Shrew		Fringed Myotis		Raccoon		Mourning Dove		Great Basin Pocket Mouse	
		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)		Conservative HQ (AUF = 1)	
		UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL
		HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ
General Chemistry	Perchlorate	0.008	0.004	0.01	0.002	0.03	0.02	0.3	0.1	0.2	0.04	0.2	0.04	0.1	0.02	0.04	0.02	0.1	0.02
Metals	Lead	0.2	0.08	0.04	0.02	0.4	0.2	0.9	0.5	0.3	0.2	0.2	0.1	0.07	0.04	0.06	0.03	0.06	0.03
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	NA	NA	0.006	0.002	NA	NA	NA	NA	0.8	0.2	0.7	0.2	0.1	0.04	NA	NA	0.08	0.02
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	0.001	0.0001	NA	NA	0.4	0.04	1	0.1	NA	NA	NA	NA	NA	NA	0.02	0.002	NA	NA
OCPs	beta-BHC	0.04	0.01	0.03	0.007	0.03	0.007	0.02	0.006	0.03	0.007	0.03	0.005	0.004	0.0009	0.0001	0.00003	0.001	0.0003
OCPs	Calculated DDx (ND=0.5DL)	0.05	0.005	0.04	0.008	0.03	0.003	0.04	0.004	0.05	0.01	0.05	0.009	0.008	0.002	0.0002	0.00002	0.002	0.0004
Group	Chemical	Cooper's Hawk		Kit Fox		Western Burrowing Owl		American Robin		Desert Shrew		Fringed Myotis		Raccoon		Mourning Dove		Great Basin Pocket Mouse	
		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 0.24)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 1)		Realistic HQ (AUF = 0.009)		Realistic HQ (AUF = 0.43)		Realistic HQ (AUF = 0.043)		Realistic HQ (AUF = 1)	
		UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL	UCL/NOAEL	UCL/LOAEL
		HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ	HQ
General Chemistry	Perchlorate	Same HQ	Same HQ	0.003	0.0005	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.002	0.0004	0.04	0.008	0.002	0.0008	Same HQ	Same HQ
Metals	Lead	Same HQ	Same HQ	0.009	0.005	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.002	0.001	0.03	0.02	0.003	0.001	Same HQ	Same HQ
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	Same HQ	Same HQ	0.002	0.0004	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.007	0.002	0.06	0.02	NA	NA	Same HQ	Same HQ
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	Same HQ	Same HQ	NA	NA	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	NA	NA	NA	NA	0.001	0.0001	Same HQ	Same HQ
OCPs	beta-BHC	Same HQ	Same HQ	0.008	0.002	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.0002	0.00005	0.002	0.0004	0.000006	0.000001	Same HQ	Same HQ
OCPs	Calculated DDx (ND=0.5DL)	Same HQ	Same HQ	0.01	0.002	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	Same HQ	0.0004	0.00008	0.003	0.0006	0.00001	0.000001	Same HQ	Same HQ

Notes:

% = Percent
AUF = Area use factor
BHC = Hexachlorocyclohexane
BKG = Background
DDD = Dichlorodiphenyldichloroethane
DDE = Dichlorodiphenyldichloroethylene
DDT = Dichlorodiphenyltrichloroethane
DDT, DDD, and

0.1	HQ < 1
1	HQ = 1

DL = Detection limit
HQ = Hazard quotient
LOAEL = Lowest observed adverse effects level
NA = Not applicable
ND = Nondetects
NOAEL = No observed adverse effects level
OCPs = Organochlorine pesticides
TEQ = Toxicity equivalent quotient
UCL = 95% upper confidence level

**TABLE 4-10. Terrestrial Wildlife Food Web Model UCL Hazard Quotient Summaries using LOAEL TRVs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Coopers Hawk	Kit Fox	Western Burrowing Owl	American Robin	Desert Shrew	Fringed Myotis	Raccoon	Mourning Dove	Great Basin Pocket Mouse
		Conservative HQ (AUF = 1)								
		UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ	UCL/ LOAEL HQ
General Chemistry	Perchlorate	0.004	0.002	0.02	0.1	0.04	0.04	0.02	0.02	0.02
Metals	Lead	0.08	0.02	0.2	0.5	0.2	0.1	0.04	0.03	0.03
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	NA	0.002	NA	NA	0.2	0.2	0.04	NA	0.02
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	0.0001	NA	0.04	0.1	NA	NA	NA	0.002	NA
OCPs	beta-BHC	0.01	0.007	0.007	0.006	0.007	0.005	0.0009	0.00003	0.0003
OCPs	Calculated DDx (ND=0.5DL)	0.005	0.008	0.003	0.004	0.01	0.009	0.002	0.00002	0.0004
Group	Chemical	Coopers Hawk	Kit Fox	Western Burrowing Owl	American Robin	Desert Shrew	Fringed Myotis	Raccoon	Mourning Dove	Great Basin Pocket Mouse
		Realistic HQ (AUF ≤ 1)								
		AUF = 1 UCL/ LOAEL HQ	AUF = 0.24 UCL/ LOAEL HQ	AUF = 1 UCL/ LOAEL HQ	AUF = 1 UCL/ LOAEL HQ	AUF = 1 UCL/ LOAEL HQ	AUF = 0.009 UCL/ LOAEL HQ	AUF = 0.43 UCL/ LOAEL HQ	AUF = 0.043 UCL/ LOAEL HQ	AUF = 1 UCL/ LOAEL HQ
General Chemistry	Perchlorate	Same HQ	0.0005	Same HQ	Same HQ	Same HQ	0.0004	0.008	0.0008	Same HQ
Metals	Lead	Same HQ	0.005	Same HQ	Same HQ	Same HQ	0.001	0.02	0.001	Same HQ
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	Same HQ	0.0004	Same HQ	Same HQ	Same HQ	0.002	0.02	NA	Same HQ
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	Same HQ	NA	Same HQ	Same HQ	Same HQ	NA	NA	0.0001	Same HQ
OCPs	beta-BHC	Same HQ	0.002	Same HQ	Same HQ	Same HQ	0.00005	0.0004	0.000001	Same HQ
OCPs	Calculated DDx (ND=0.5DL)	Same HQ	0.002	Same HQ	Same HQ	Same HQ	0.00008	0.0006	0.000001	Same HQ

Notes:

AUF = Area use factor
 BHC = Hexachlorocyclohexane
 DDD = Dichlorodiphenyldichloroethane
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DDx = DDx includes DDT, DDD, and DDE isomers for the evaluation of potential risks related to the chemical mixture
 DL = Detection limit
 HQ = Hazard quotient

LOAEL = Lowest observed adverse effects level
 NA = Not applicable
 ND = Nondetects
 OCPs = Organochlorine pesticides
 TEQ = Toxicity equivalent quotient
 UCL = 95th percent upper confidence level

0.1

 HQ < 1

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
Uncertainties in Hazard Identification		
Receptor Populations	How many organisms are at risk, given the size and characterization of the site? Given the human disturbance and hardscape/homes, parts of OU-2 are not likely to have biologically significant populations of animal receptors. If that is the case, ecological risk assessment may have trivial input to site management.	Likely causes overestimation of risk because of probable absence of biologically significant populations of receptors.
Receptor Demographics	Which organisms are at risk, given the size and characterization of the site? There were no formal biological surveys of plants, no insect community collections, no trapping studies of small animals, no birdwatching studies by trained ornithologists, and no survey of larger animals in OU-2. The list of receptors used in the risk assessment may not match the receptors in OU-2.	Unknown.
Evaluation of Reptiles	Ecological risk assessment for reptiles has been a particular focus of scientific interest for at least two decades. Despite that, there is a dearth of standardized test methods, the toxicity data is patchy-to-nonexistent, and there are no widely accepted receptor parameters. This is largely because both the United States and European Union do not require reptile testing as part of their environmental regulations. The hot, arid environment of OU-2 is likely to contain a diversity of lizards and several kinds of snakes that are not quantitatively assessed.	Likely causes underestimation of risk as reptiles are not assessed quantitatively.
Choice of Assessment Endpoints	Assessment endpoints were chosen for OU-2 based on the best understanding of which receptors might be rare species or ecologically important "keystone" species who's presence (or absence) can change the ecological community. For instance, do plants in OU-2 hold down the soil and are therefore the keystone species? Which plants? However, there has been no formal analysis of ecosystem functions or services in OU-2 to verify this understanding.	Unknown.
Exposure Pathways & Conceptual Site Model	The exposure pathways and the identification of complete exposure pathways at OU-2 were based on professional experience of trained ecologists, site personel, and local government. However, there has been no tracer analysis to verify which exposure pathways are complete. If the conceptual site model is incorrect, the risk assessment might be assessing incomplete pathways, or missing complete pathways.	Unknown.

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
Additional Stressors	The receptors in OU-2 are assessed for their vulnerability to chemical stressors, however, there are many other stressors at OU-2 that may affect populations of receptors. For instance, there could be an outbreak of scarcoptic mange in local coyotes that renders them especially vulnerable to chemicals that may interact with the dermal pathway. Climate change and increased temperatures could mean that prey mammals are heat stressed. Human disturbance may cause animals to flee out of their preferred microhabitats. This risk assessment does not take into effect any stressors other than chemical.	Likely causes an underestimation of risk because plants and animals under stress are more sensitive.
Uncertainties in the Exposure Assessment - Chemical Data		
Limited Number of Samples	The sampling within the OU-2 Refined SLERA Study Area is generally robust. The ecological risk assessment for soil uses a limited set of samples that only included the top two feet of soil because there is far more biological activity there than at deeper depths. There are only a few chemicals with limited sampling locations and these are chemicals that are not risk drivers. As such, limited number of samples is not considered an issue at OU-2.	Unknown.
Assumed Bioavailability is 100%	The chemicals detected in OU-2 are assumed to be 100% bioavailable and this is not true. Most aluminum in the Earth's upper crust is aluminum oxide, a very stable mineral. Iron and manganese oxides are also relatively stable, ubiquitous minerals. These minerals are often bound in rocks and gravel but the chemical analysis dissolves them in strong acids to get the total values of the metals. The organisms in OU-2 cannot eat rocks and are not exposed to the minerals bound up in them. While some birds may use grit in their gizzard to help macerate food, the grit is not exposed to strong acids as they are in laboratory analysis and do not completely break down. Organic and hydrophobic chemicals are likely bound to clay or organic particles in the soil. In laboratory testing they are extracted with solvents.	Likely causes a significant overestimation of risk from chemicals in OU-2.
Biased Sampling	The sampling within the OU-2 Refined SLERA Study Area is generally robust and well-distributed, but was designed to help identify areas with higher concentrations of toxic chemicals in order to guide site delineation and site cleanup. Relatively few samples were taken in areas where site activities were unlikely to have caused chemical contamination, and relatively more samples were taken in areas that were likely to be contaminated. This biases the sample concentrations high.	Likely causes an overestimation of risk.
Chemicals That Are Not Detected	Many chemicals were not detected in OU-2. Some of these chemicals might be present in OU-2 at concentrations below the detection limits and may still have ecological effects that can not be quantified in this risk assesment.	Unknown.

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
Use of Maximum or 95% UCL Concentrations	Using 95 percent upper confidence limits and maximum detected concentrations is likely to overestimate intakes since most exposure is at lower concentrations. Constituents in OU-2 generally have a few locations with high concentrations and many locations with very low concentrations (see Figures 3-1a, 3-1b, 3-2a, 3-2b, 3-5, 3-6, and 3-10 for spatial distributions of concentrations of perchlorate, mammal and avian dioxin/furan TEQs, lead, and beta-BHC). Using the maximum value vastly overestimates risk. Even the 95% upper confidence level of the mean overestimates the actual mean of concentrations.	Likely causes a significant overestimation of risk from chemicals in OU-2.
Uncertainties in the Exposure Assessment - Biological Data		
Dermal and Inhalation Pathways Not Assesed	Ecological risk assessment does not generally include the dermal and inhalation pathways. The uptake values are very poorly understood and documented and the toxicity via these pathways is largely unstudied. However, at OU-2, the aeolian dust may be a complete and important uptake pathway. Give the arid conditions of OU-2, most creatures have an external covering that is largely waterproof to reduce fluid loss, so uptake from the dermal pathway might be trivial.	Unknown.
Which Chemicals Bioaccumulate	For OU-2, bioaccumulative chemicals were determined by the existence of a published USEPA Ecological Soil Screening Level for a chemical, or it's inclusion in the USEPA's "Bioaccumulation Testing and Interpretation For The Purpose Of Sediment Quality Assessment - Status and Needs" (USEPA 2000). This is an expansive list of chemicals that cover major risk drivers at sites across the US. However, the large constituent list at OU-2 likely contains some chemicals that bioaccumulate, but that haven't been formally assessed for bioaccumulation potential and who's toxicity is unknown.	Unknown.
Use of literature derived exposure assumptions in the models	For OU-2, uptake modeling into plants, prey invertebrates, and prey mammals was based on standardized, generic, widely-acceptable values. However, these values were not designed for hot, arid environments, or the specific soil-type and constituent mix at OU-2. These values were also not derived using the same species of plants, invertebrates, or prey mammals present at OU-2. Therefore, the standard uptake values (or equations) might differ widely from the chemical uptake that occurs in OU-2. There have been no uptake studes or collections of plants, insects, or prey mammals to directly measure the amount of chemicals in food items.	Unknown.
Use of literature derived exposure assumptions for receptor parameters	The model receptor organisms are based on literature- and guidance-derived values and do not reflect how organisms in OU-2 are actually exposed. The available receptor information is very rarely from animals in desert climates. For instance, there has been very little basic science published on how much burrowing owls eat, what species of insects the fringed myotis bats in the local area eat, and how much soil pocket mice incidentally consume when the groom themselves. The rate of food consumption, or accidental soil ingestion, or feeding preferences of the animals at OU-2 are likely specifically adapted for life there.	Unknown.

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
Area Use Factors	The AUF accounts for the fraction of the diet that an organism actually obtains from the site. The AUF takes into consideration the dietary fraction derived from a site based on the organism's foraging/feeding range (i.e., the mobility factor, which is the ratio between the site surface area and the foraging/feeding range), and seasonal exposure that limits exposure to certain periods of the year. High mobility animals have extensive foraging ranges and are known to obtain their diet from multiple locations, while low-mobility organisms such as invertebrates have a higher degree of exposure because most or all of their diet is derived from a smaller area. OU-2 is approximately 662 acres. Organisms whose home range is less than the site size is assumed to spend all their time at the site while organisms whose home range is greater than the site size is assumed to spend only a portion of their time at the site. Ramboll considered both a conservative approach to AUFs (AUF=1) and a more realistic scenario (AUF<1) in the risk assessment.	The AUF=1 scenario likely overestimates risk for receptors with large home ranges like the fringed myotis, mourning dove, kit fox, racoon, Cooper's hawk, and western burrowing owl.
Bird and mammal HQs based on maximum AUFs	Compounding conservative assumptions in the risk assessment likely yields extremely conservative (overestimated) risk estimates. Using an AUF = 1, the HQ values for the mammals and birds are based on the presumption that they live their entire lives within their exposure unit, consume food only from within their exposure unit, and food items live entirely within their exposure unit.	Likely causes a significant overestimation of risk.
Uncertainties in the Effects Assessment		
Adaptation To and Tolerance of Chemicals Present in OU-2	Life spans of receptors at OU-2 are 1-2 years (pocket mice, doves, robins), 2-3 years (shrews, raccoons), 3-4 years (foxes, coyotes), or up to 5-15 years (hawks, owls). The chemicals at OU-2 have been there for 25 or more years. That means that the receptors at OU-2 have experienced multiple generations of exposure to the chemicals at OU-2 (other than bats, who could live 20 years). Any organisms that were particularly sensitive to chemicals present at OU-2 have long since died or fled, and the genetic pressure on the individuals that remained would favor organisms that are less sensitive, or adapted to the chemicals present in OU-2.	Likely causes an overestimation of risk.
Chemical Form	Toxicity studies on a chemical of interest may not match the form that is present in OU-2. For instance, perchlorate is a salt and the toxicity testing literature includes studies on sodium, ammonium, or potassium perchlorate salts as well as just "perchlorate". Salts are expected to have little effect on toxicity, but there has been no study in OU-2 to determine which form the perchlorate is in and how that relates to the toxicity endpoints used in the risk assessment.	Unknown.
Wild Type Versus Lab Strain Organisms	The vast majority of test species that were used for toxicity testing come from lab grown strains of organisms. These organisms have been in captivity for hundreds (or more) of generations and have experienced selection pressure and genetic drift to adapt to lab water, food, and climate conditions. The animals at OU-2 have wild type genetics that may alter their responses to various chemicals.	Unknown.

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
Species-To-Species Extrapolations	While bats, owls, coyotes, and desert insects may be receptors of concern at OU-2 the toxicity studies used in this risk assessment are generally from lab or field studies on other organisms. Extrapolating mouse toxicity values to bats, or chicken toxicity studies to owls is uncertain because the lab species may not react like the species at OU-2.	Unknown.
Lab Testing Versus OU-2	Most laboratory tests take place under controlled temperature, water, food, and light conditions. Generally lab organisms are fed an appropriate ration so they are not stressed by hunger during toxicity testing. This is obviously different than OU-2 where organisms must avoid predation, and may be food- or hunger- or temperature-stressed.	Unknown.
Toxicity Endpoints	Every effort was made to make sure soil and wildlife toxicity values applied to relevant endpoints for growth, reproduction, or mortality. Endpoints like biochemical markers, gene regulation, and avoidance behavior were not used in this risk assessment. However, some toxicity studies are more relevant than others, and when there is a paucity of information (for instance soil toxicity data for manganese) then there are fewer ecologically relevant endpoints to choose from.	Unknown.
Uncertainties in Risk Characterization		
Interpretation of HQs	An HQ less than or equal to a value of 1 indicates that adverse impacts to wildlife are considered unlikely. However, there is no clear guidance for interpreting the HQs that exceed a value of 1, except that this point of departure may indicate that adverse effects of some kind may have occurred or may occur in the future.	Likely causes an overestimation of risk.
HQs With Unrealistic Magnitudes	The perchlorate and beta-BHC maximum soil HQs of 200 are difficult to interpret. While this might suggest acute toxicity, there are still soil invertebrates and plants at OU-2 and they have not been extirpated. While an HQ greater than 1 indicates a need for further study, they do not scale linearly, and are difficult to compare between media and organisms.	Likely causes an overestimation of risk.
Assessing Risk One Chemical At a Time	Ecological risk assessment develops risk estimates one chemical at a time. However, at OU-2 an ecological receptor is exposed to several constituents at the same time, and may experience toxic effects from these chemicals simultaneously. The chemicals may be synergistic and cause more toxicity because of their combination than is expected from a single chemical.	Likely causes an underestimation of risk.
Background Concentrations that Exceed Ecotoxicity Screening Values	There are several metals that have background concentrations that are very high and in some cases exceed that chemicals ESV. For instance, the background HQs for aluminum range from 700-3000. The background HQs for iron range from 30-100. The background HQs for mercury range from below 1 to 8. However, the background area represents healthy desert ecosystems with appropriate wildlife and vegetation. The high HQs are from naturally occurring minerals that the ecosystem has adapted to.	Likely causes an overestimation of risk.

**TABLE 4-11. Effects of Uncertainty in Ecological Risk Assessment
Nevada Environmental Response Trust Site
Henderson, Nevada**

Source of Uncertainty	SLERA Management Approach	Effects on Risk Estimation
HQs for Individuals Used to Evaluate Risks to Populations	The assessment endpoints for OU-2 include "survival, growth, and reproductive ability of bird/mammal/reptile populations within the OU-2". However, the toxicity reference values used are for individual survival, growth, and reproduction. Extrapolating from individual impacts to population impacts is fraught with uncertainty (Tannenbaum 2003; Durda and Preziosi 1999). Even if the food web model indicates reductions in survival, growth and reproduction of some individuals, such data alone cannot be used directly to estimate adverse effects to populations, communities, or ecosystems (Forbes and Calow, 1999).	Unknown.
Detection Limits That Exceed Ecotoxicity Screening Values	There are occasions when analytical sample quantitation limits exceed ecological screening values. This can be due to instrument and method limitations and/or due to interference from unrelated chemicals (e.g., dilutions required to bring some other chemical within a calibration range). This uncertainty is described in detail in Section 4.6.	Unknown.

Notes:

AUF = Area use factor

ESV = Ecological screening value

HQ = Hazard quotient

OU-2 = Operable Unit 1

SLERA = Screening-level ecological risk assessment

TEQ = Toxic equivalency quotient

USEPA = United States Environmental Protection Agency

References:

Durda, J.L., and D.V. Preziosi. 1999. Where is the population in your risk assessment? Society of Environmental Toxicology and Chemistry (SETAC) News 19(6):19–20.

Forbes, V. E. and P. Calow. 1999. Is the per capita rate of increase a good measure of population-level effects in ecotoxicology? Environmental Toxicology and Chemistry 18:1544–1556.

Tannenbaum L., M. Johnson, and M. Bazar. 2003. Application of the Hazard Quotient Method in Remedial Decisions: A Comparison of Human and Ecological Risk Assessments. Human and Ecological Risk Assessment: An International Journal 9: 387-401.

USEPA. 2000. Bioaccumulation Testing and Interpretation for the Purpose of Sediment Quality Assessment. EPA-823-R-00-001.

TABLE 4-12. Uncertainty Analysis for Constituents Detected but Lacking ESVs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

Chemical Group	Chemical Name	Summary Statistics					Sample Year Range	Most Recent Detection Date	Fail Statistical Testing for Background Consistency? (a)	Consideration of Half-Life in Soil				Consideration of Additional Toxicity Data				Bioaccumulative? (c)
		# Samples	# Detects	FOD	Maximum Detection (mg/kg)	95% UCL (mg/kg)				Half-Life in Soil	Number of Half-Lives Since Most Recent Detection	Estimated Present Day Concentration (mg/kg)	Constituent still present based on Half-Life?	Toxicity of the constituent or a Surrogate Chemical(s) (mg/kg) (b)	Surrogate/ Source	Maximum HQ > 1?	95UCL HQ > 1?	
General Chemistry	Bromide	34	9	26%	7.60E+00	1.78E+00	2006-2007	9/7/2007	NA	--	--	--	--	Bromide: Avian LC50 >5,600 mg/kg; Mammal LC50 >3,900 mg/kg (d)	--	no	no	no
General Chemistry	Chlorate	4	2	50%	6.30E+00	6.67E+00	2006-2006	11/3/2006	NA	--	--	--	--	Sodium Chlorite: Avian LC50: 2,031 - 18,686 mg/kg; Avian NOEL: 417-10,000 mg/kg (e)	--	no	no	no
General Chemistry	Chloric acid	30	6	20%	4.60E+00	1.32E+00	2007-2007	9/7/2007	NA	--	--	--	--	(b)	--	--	--	no
General Chemistry	Chlorine	30	28	93%	4.41E+03	9.14E+02	2007-2007	9/10/2007	NA	"If liquid chlorine is spilled onto soil, it will react with both organic and inorganic mater in the soil; however, much of the chlorine is expected to volatilize immediately" ATSDR, 2010. (f)				--	--	--	no	
General Chemistry	Nitrate (as N)	34	34	100%	2.29E+02	3.21E+01	2006-2007	9/10/2007	Yes	30 days (m)	186	3.1E-54	No	(b)	--	--	--	no
General Chemistry	ortho-Phosphate	34	3	9%	2.00E+00	1.02E+00	2006-2007	9/6/2007	NA	30 days (m)	186	2.5E-56	No	(b)	--	--	--	no
General Chemistry	Sulfate	34	34	100%	1.45E+03	2.73E+02	2006-2007	9/10/2007	Yes	30 days (m)	186	2.0E-53	No	(b)	--	--	--	no
Metals	Sulfur	30	3	10%	1.21E+03	4.07E+02	2007-2007	9/10/2007	NA	--	--	--	--	Birds: 5,620 mg/kg diet (mortality LC50); Insects: 567 mg/kg (mortality LC50); Plants 80-97.6 mg/kg soil (growth NOEL) (g)	--	YES	YES	no
OCPs	2,4-DB	1	1	100%	6.00E-02	NA	1999-1999	6/23/1999	NA	24.5 days (h)	350	3.1E-107	No	5.50E-02	USEPA Region 4 (Invertebrate Value) for 2,4-T (i)	YES	--	no (h)
OCPs	Dicamba	1	1	100%	2.00E-03	NA	1999-1999	6/23/1999	NA	58 days worst-case (k)	148	6.7E-48	No	5.50E-02	USEPA Region 4 (Invertebrate Value) for 2,4-T (i)	no	--	no (j)
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	1	1	100%	1.20E+03	NA	1999-1999	6/23/1999	NA	41 days worst-case (l)	209	1.5E-60	No	5.50E-02	USEPA Region 4 (Invertebrate Value) for 2,4-T (i)	YES	--	no (j)
Organic Halides	Organic Halides (total)	1	1	100%	1.80E+02	NA	1999-1999	6/23/1999	NA	--	--	--	--	(b)	--	--	--	no

**TABLE 4-12. Uncertainty Evaluation for Detected Chemicals Lacking ESVs
Nevada Environmental Response Trust Site
Henderson, Nevada**

Notes:

(a) Details regarding the background evaluation is provided in Appendix C. "Yes" indicates that Site concentrations are significantly greater than background or there is a low detection frequency for this chemical but visual inspection of QQ/boxplots indicate site not consistent with background and therefore the chemical cannot be eliminated based on comparison to background. "No" indicates that Site data is consistent with background or for low detection frequency chemicals, visual inspection of QQ/boxplots indicate site is consistent with background. NA: not applicable. Bkg evaluation only for metals and radionuclides.

(b) A literature review was conducted to find toxicity information using sources such as USEPA EcoTox, ORNL RAIS, ECHA, and Google Scholar. If information is found, it is stated; otherwise, pertinent toxicity information for the chemical was not found.

(c) BCFs pulled from USEPA CompTox Database and PubChem; and represent accumulation in aquatic organisms.

(d) Bromide: USEPA 2005. Ecological Hazard and Environmental Risk Assessment of Bromine and Sodium Bromide for the Registration Eligibility Decision (RED)

(e) Chlorate/Chlorite: USEPA 1992 Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.

The chlorate ion, ClO₃⁻, contains three oxygen atoms while the chlorite ion, ClO₂⁻ contains only two oxygen atoms.

Sodium Chlorite HClO₂ 68.46 g/mol

Chlorate ClO₃⁻ 83.45 g/mol

(f) ATSDR 2010. <https://wwwn.cdc.gov/TSP/ToxProfiles/ToxProfiles.aspx?id=1079&tid=36>

(g) Sulfur: Birds: USEPA 1992. Pesticide Ecotoxicity Database (Formerly: Environmental Effects Database (EEDB)). Environmental Fate and Effects Division, U.S.EPA, Washington, D.C.

Plants: Cui, Y., and Q. Wang. 2005. Interaction Effect of Zinc and Elemental Sulfur on Their Uptake by Spring Wheat. J. Plant Nutr. 28(4): 639-649

Insects: Cohen, H., A.R. Horowitz, D. Nestel, and D. Rosen. Susceptibility of the Woolly Apple Aphid Parasitoid, *Aphelinus mali* (Hym.: Aphelinidae), to

(h) USEPA 2005: USEPA. 2005. EPA R.E.D. Facts - 2,4-DB (EPA-738-F-05-001). March 2005. https://www3.epa.gov/pesticides/chem_search/reg_actions/reregistration/fs_PC-030801_1-Mar-05.pdf (Accessed February 2023).

(i) USEPA Region 4: USEPA Region 4. 2018. Region ERA Supplemental Guidance. Updated on March. Scientific Support Section Superfund Division EPA Region 4. https://www.epa.gov/sites/production/files/2015-09/documents/r4_era_guidance_document_draft_final_8-25-2015.pdf.

(j) USEPA 2005: USEPA. 2005. EPA R.E.D. Facts - 2,4-DB (EPA-738-F-05-001). March 2005. https://www3.epa.gov/pesticides/chem_search/reg_actions/reregistration/fs_PC-030801_1-Mar-05.pdf (Accessed February 2023). The bioaccumulative nature of dicamba and MCPA is expected to be similar to 2,4-DB due to their similar structures.

(k) NPIC (National Pesticide Information Center) 2011. http://npic.orst.edu/factsheets/archive/dicamba_tech.html

(l) PubChem, 2023. <https://pubchem.ncbi.nlm.nih.gov/compound/4-Chloro-2-methylphenoxy-acetic-acid>

(m) USEPA EPISuite software: USEPA. 2023. Estimation Programs Interface Suite™ for Microsoft® Windows. United States Environmental Protection Agency, Washington, DC, USA.

-- = Information not found

ATSDR = Agency for Toxic Substances and Disease Registry

FOD = Frequency of detection

HQ = Hazard quotient

LC50 = Lethal concentration (50% population)

mg/kg = Milligram(s)/kilogram

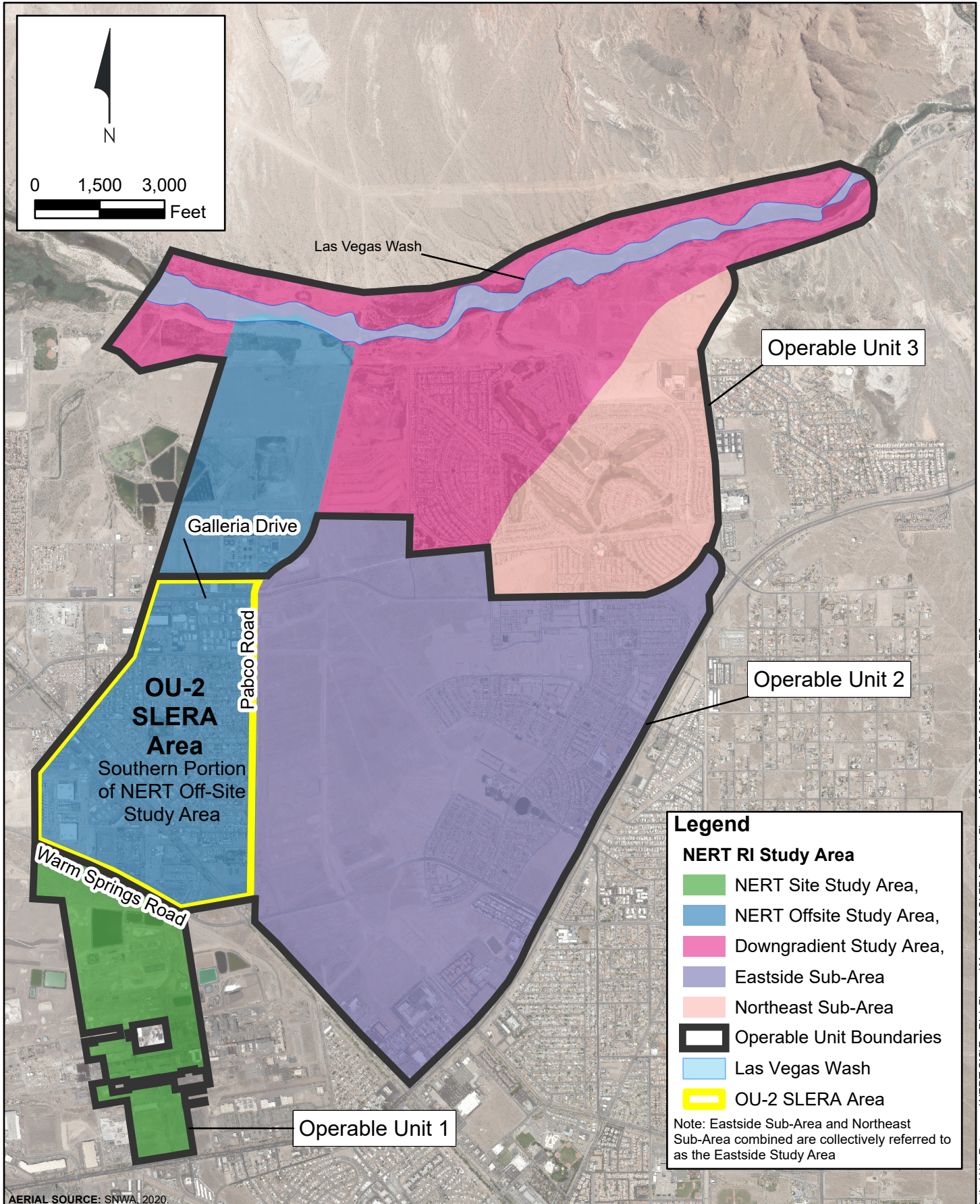
NA = Not available

NOEL = No observed effect level

UCL = Upper confidence limit

USEPA = United States Environmental Protection Agency

FIGURES



AERIAL SOURCE: SNWA, 2020



OU-2 Refined SLERA Area and NERT Operable Units

Nevada Environmental Response Trust Site
Henderson, Nevada

Figure

ES-1

Drafter: RS

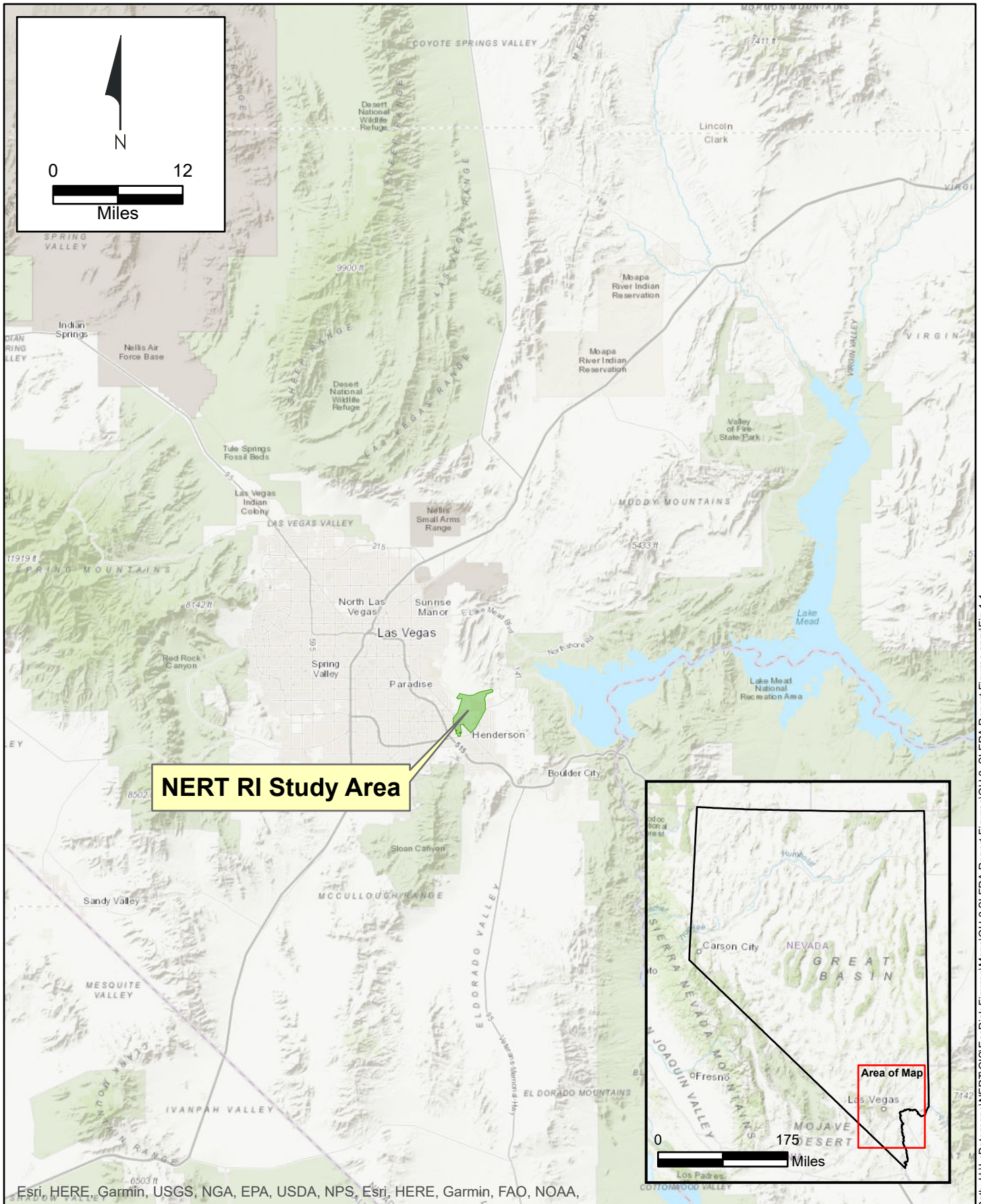
Date: 2023-02-14

Contract Number: 1690020169

Approved by:

Revised:

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\OU-2 SLERA Report\Figures\OU-2 SLERA_202302.aprx\Fig ES-1



NERT RI Study Area



Esri, HERE, Garmin, USGS, NGA, EPA, USDA, NPS, Esri, HERE, Garmin, FAO, NOAA,

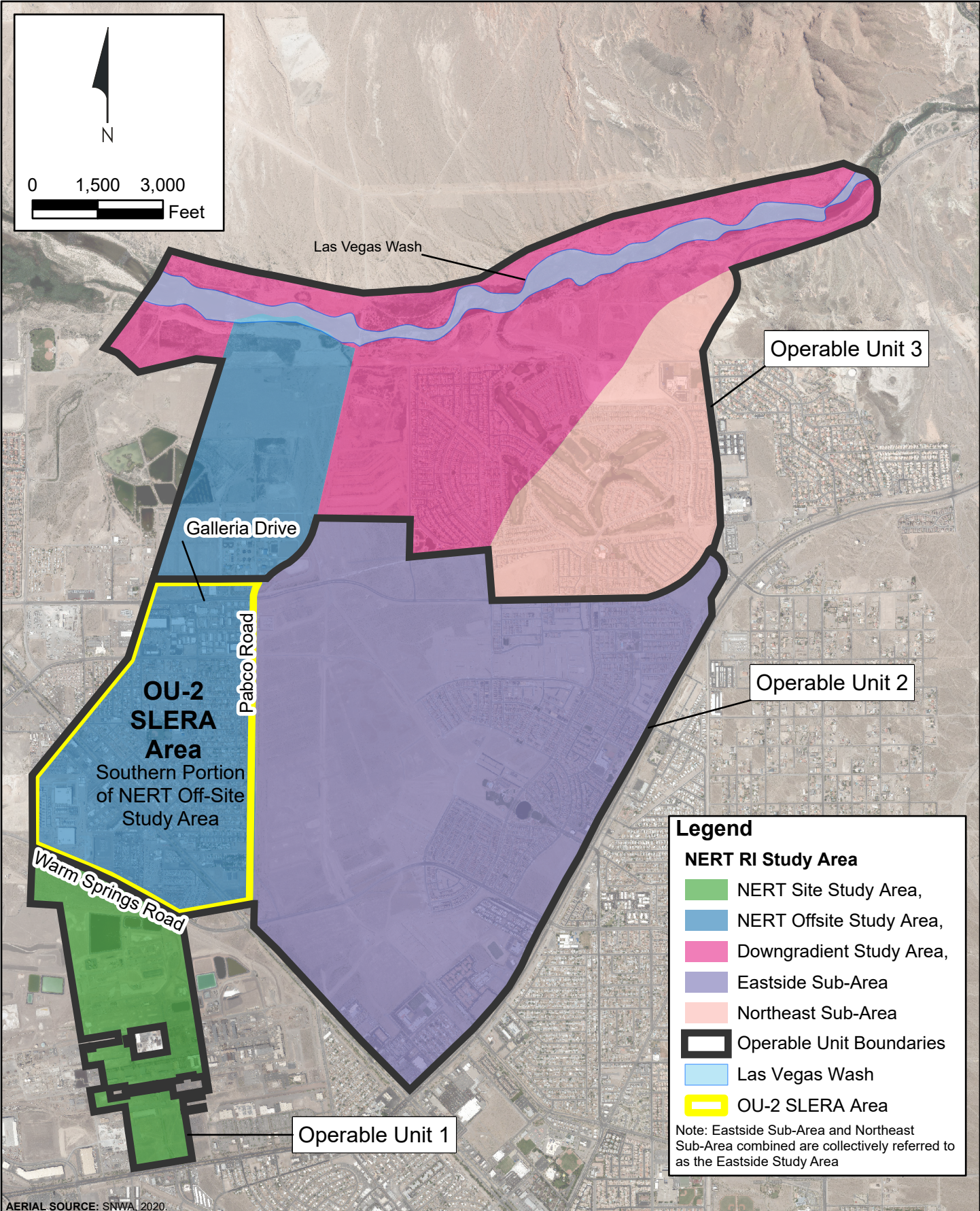


NERT RI Study Area Location Map
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
1-1

Drafter: RS Date: 2021-07-29 Contract Number: 1690020169 Approved by: Revised:

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\OU-2_SLERA Report\Figures\OU-2_SLERA Report Figures.aprx\Fig 1-1



AERIAL SOURCE: SNWA, 2020.

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\OU-2 SLERA Report\Figures\OU-2 SLERA_202302.aprx\Fig 1-2



OU-2 Refined SLERA Area and NERT Operable Units

Nevada Environmental Response Trust Site
Henderson, Nevada

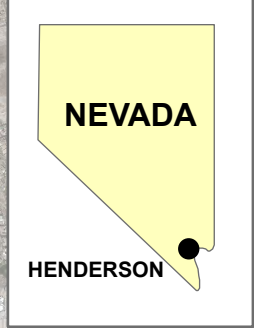
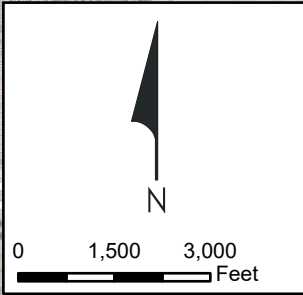
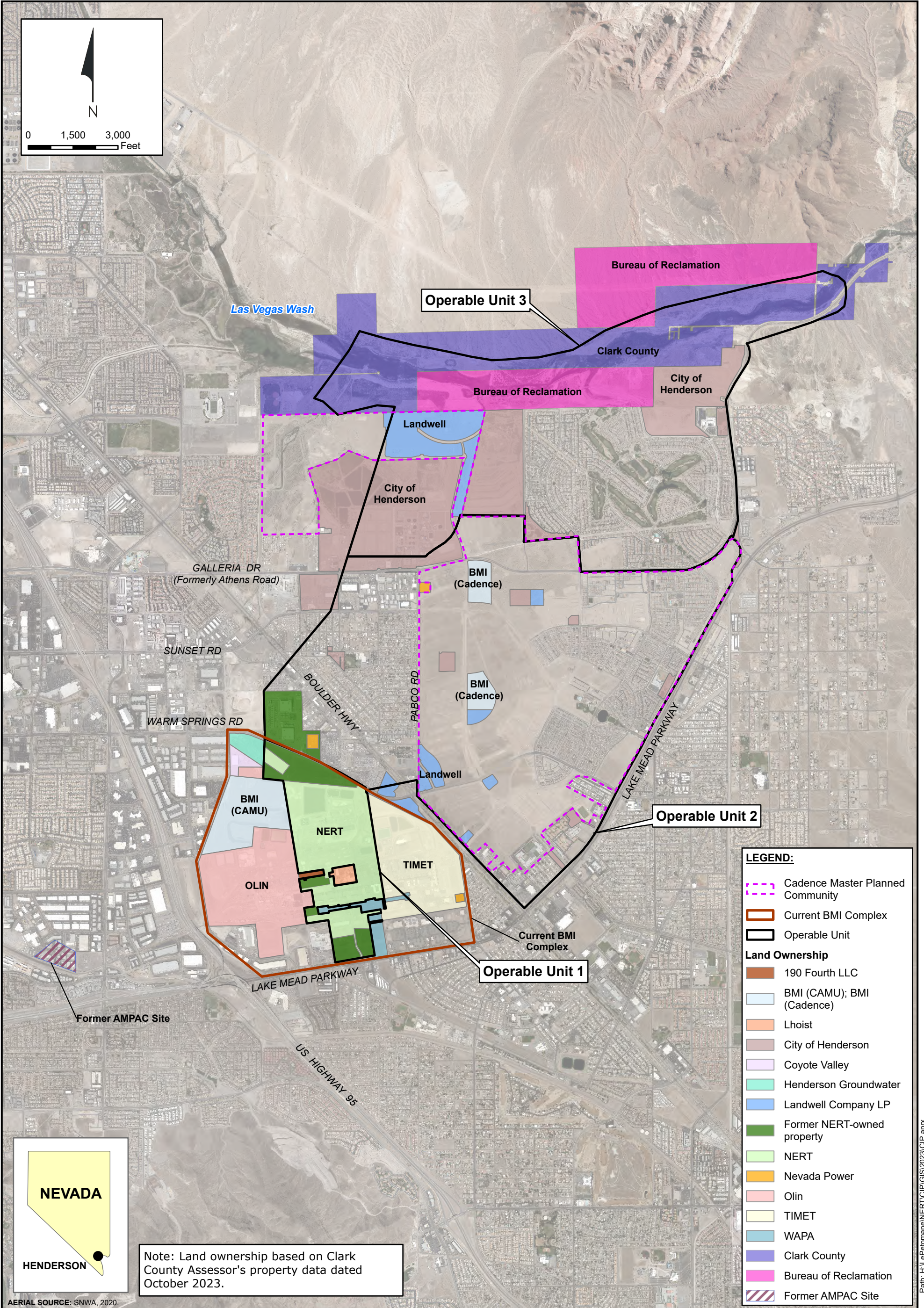
Figure
1-2

Drafter: RS

Date: 2023-02-14 Contract Number: 1690020169

Approved by:

Revised:



Note: Land ownership based on Clark County Assessor's property data dated October 2023.

LEGEND:

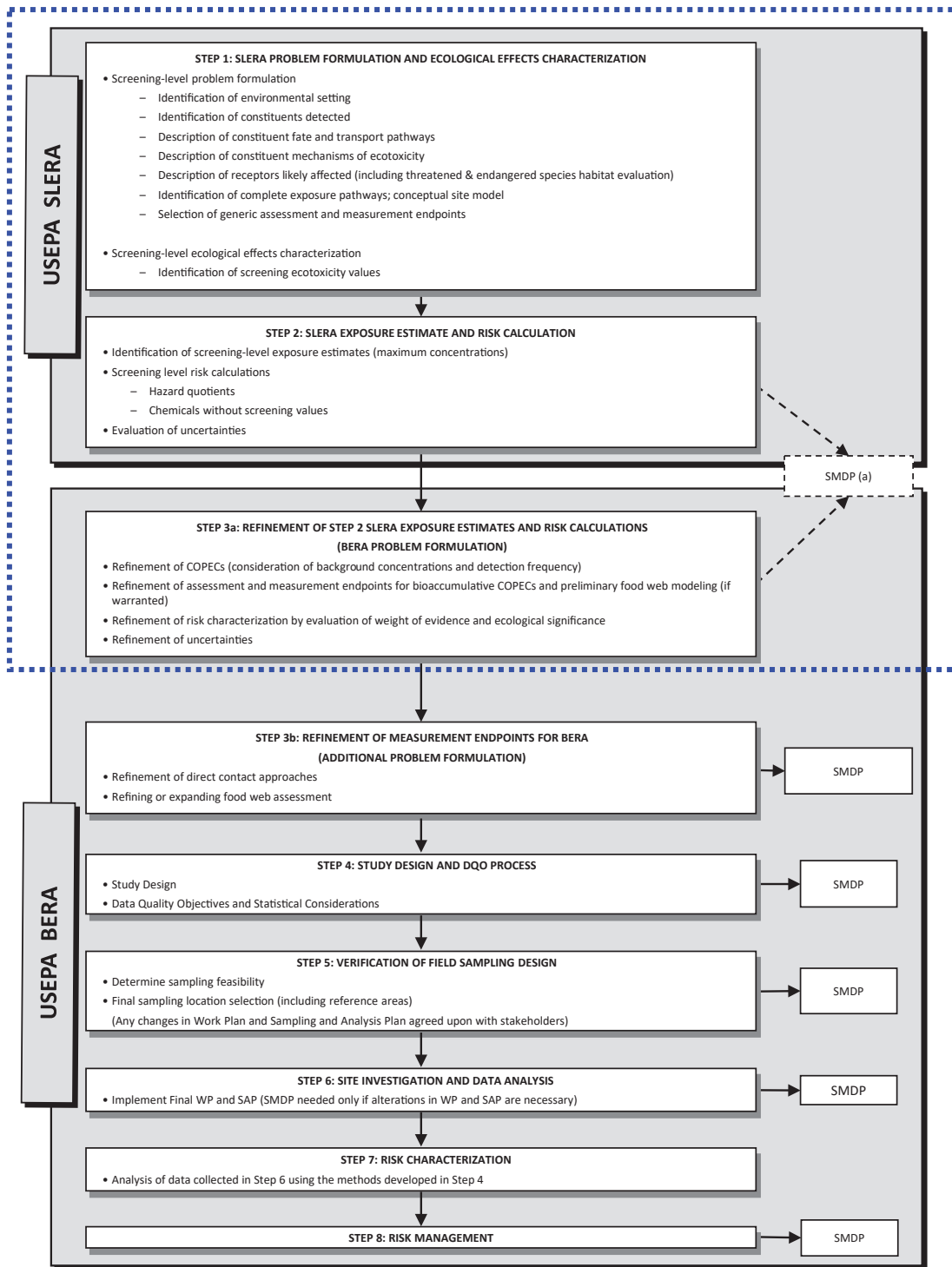
- Cadence Master Planned Community
- Current BMI Complex
- Operable Unit

Land Ownership

- 190 Fourth LLC
- BMI (CAMU); BMI (Cadence)
- Lhoist
- City of Henderson
- Coyote Valley
- Henderson Groundwater
- Landwell Company LP
- Former NERT-owned property
- NERT
- Nevada Power
- Olin
- TIMET
- WAPA
- Clark County
- Bureau of Reclamation
- Former AMPAC Site

AERIAL SOURCE: SNWA, 2020

Path: H:\L\Petromane\NERT\CIP\GIS\2023\CIP.aprx



Notes:

- (a) SMDP occurs EITHER after Step 2 or after Step 3a
- COPECs Constituents of Potential Ecological Concern
- DQO Data Quality Objectives
- GW Groundwater
- NDEP Nevada Division of Environmental Protection
- SAP Sampling and Analysis Plan
- SW/SD Surface water and sediment
- WP Work Plan

Sources: USEPA Process Adapted from USEPA, 1997, 2000, 2001
 NDEP 2006. Screening-Level Ecological Risk Assessment Guidelines for the BMI Complex, Henderson, Nevada. September.

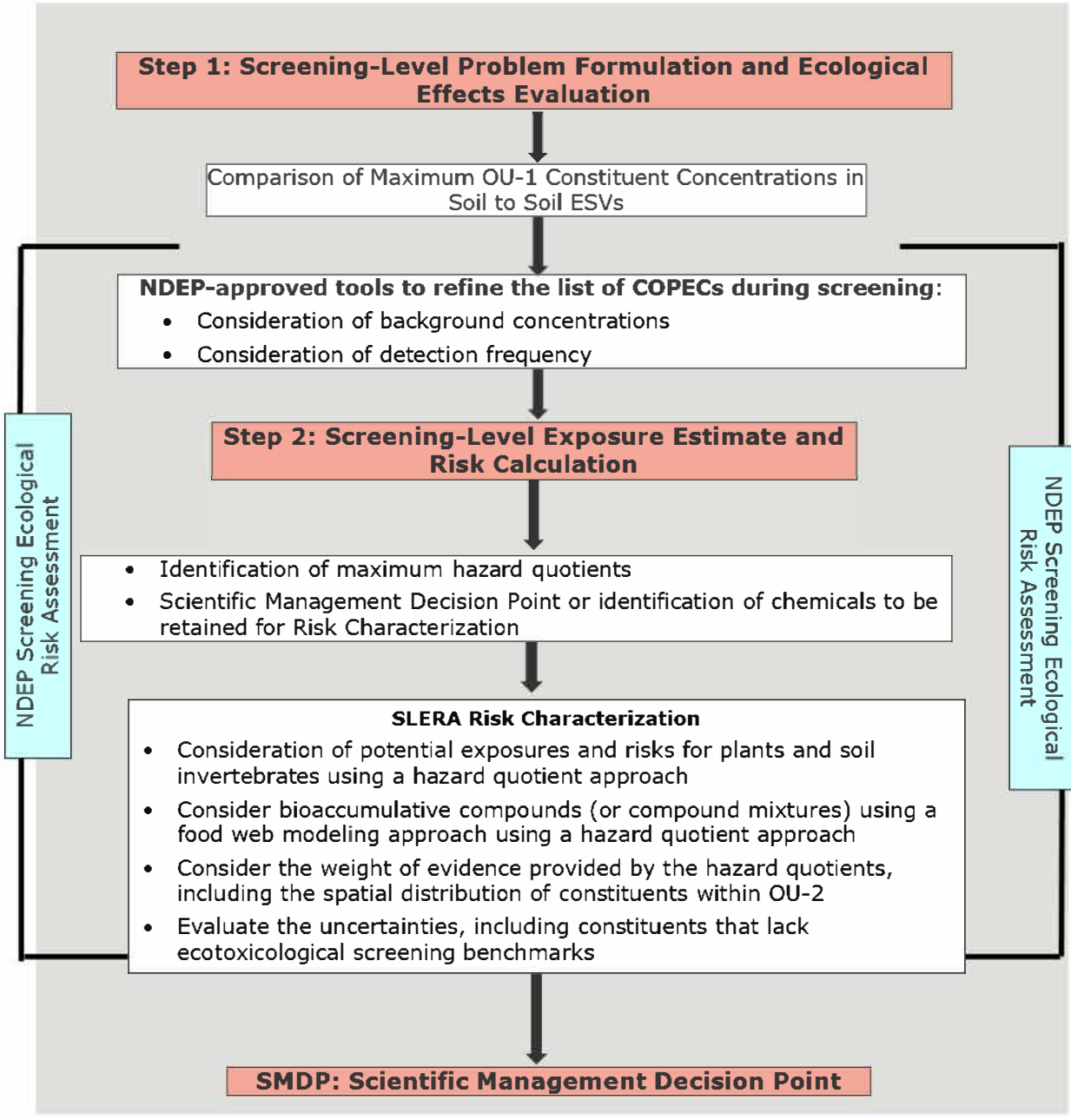
- SMDP Scientific Management Decision Point [Note that SMDPs do not identify formal reporting requirements, but identify when stakeholder communication should be considered]
- BERA Baseline ERA
- SLERA Screening-level ERA
- USEPA United States Environmental Protection Agency
- USEPA 1997. Ecological Risk Assessment Guidance for Superfund.
- USEPA 2000. Amended Guidance on Ecological Risk Assessment at Military Bases: Process Considerations, Timing of Activities, and Inclusion of Stakeholders .
- USEPA 2001. ECO-Update: Role of Screening-level Risk Assessments and Refining Contaminants of Concern in Baseline Ecological Risk Assessments.



USEPA Eight-Step Ecological Risk Assessment Process and Overlap with NDEP SLERA Process
 Nevada Environmental Response Trust Site; Henderson, Nevada

Figure
1-4

Drafter: RS/JC Date: 2021-07-29 Contract Number: 1690020169 Approved by: Revised:



Ecological Risk Assessment Process used in the OU-2 SLERA, applying elements of USEPA's Eight-Step ERA Process and NDEP Screening Guidance

NDEP - Nevada Division of Environmental Protection Ecological Risk Assessment Guidance

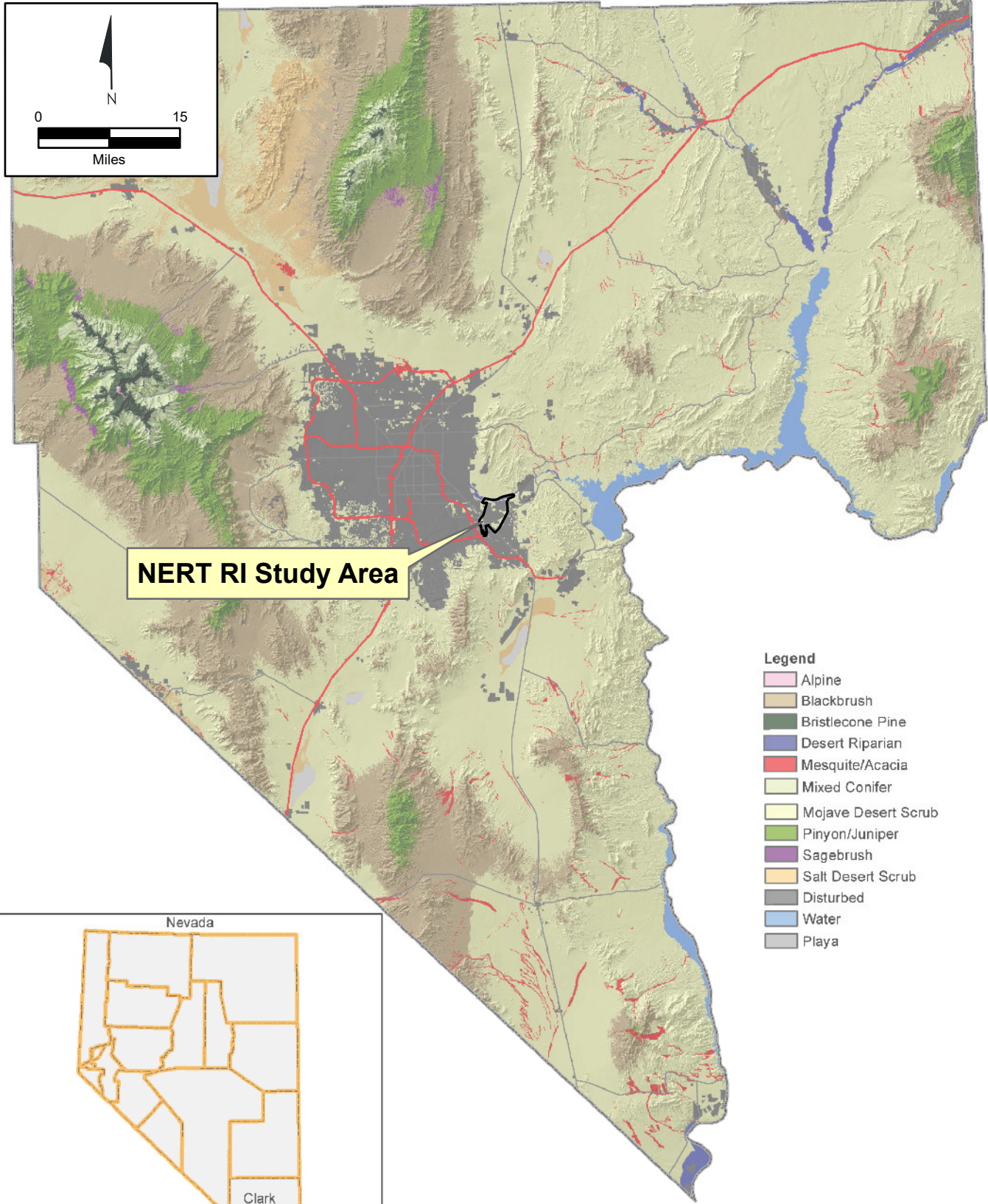
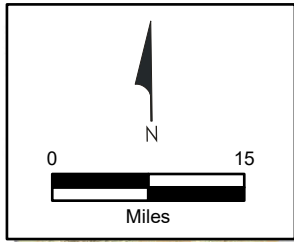
Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\OU-2 SLERA Report Figures\OU-2_SLERA Report Figures.aprx\Fig 1-5



Ecological Risk Assessment Process Steps 1-3a Used in the OU-2 Refined SLERA
Nevada Environmental Response Trust Site Henderson, Nevada

Figure
1-5

Drafter: RS/JC Date: 2021-07-29 Contract Number: 1690020169 Approved by: Revised:



NERT RI Study Area

- Legend**
- Alpine
 - Blackbrush
 - Bristlecone Pine
 - Desert Riparian
 - Mesquite/Acacia
 - Mixed Conifer
 - Mojave Desert Scrub
 - Pinyon/Juniper
 - Sagebrush
 - Salt Desert Scrub
 - Disturbed
 - Water
 - Playa



Source: Clark County Desert Conservation Program Multiple Species Habitat Conservation Plan and Environmental Impact Statement
<http://www.clarkcountynv.gov/airquality/dcp/Pages/CurrentHCP.aspx> (Accessed February 2018)

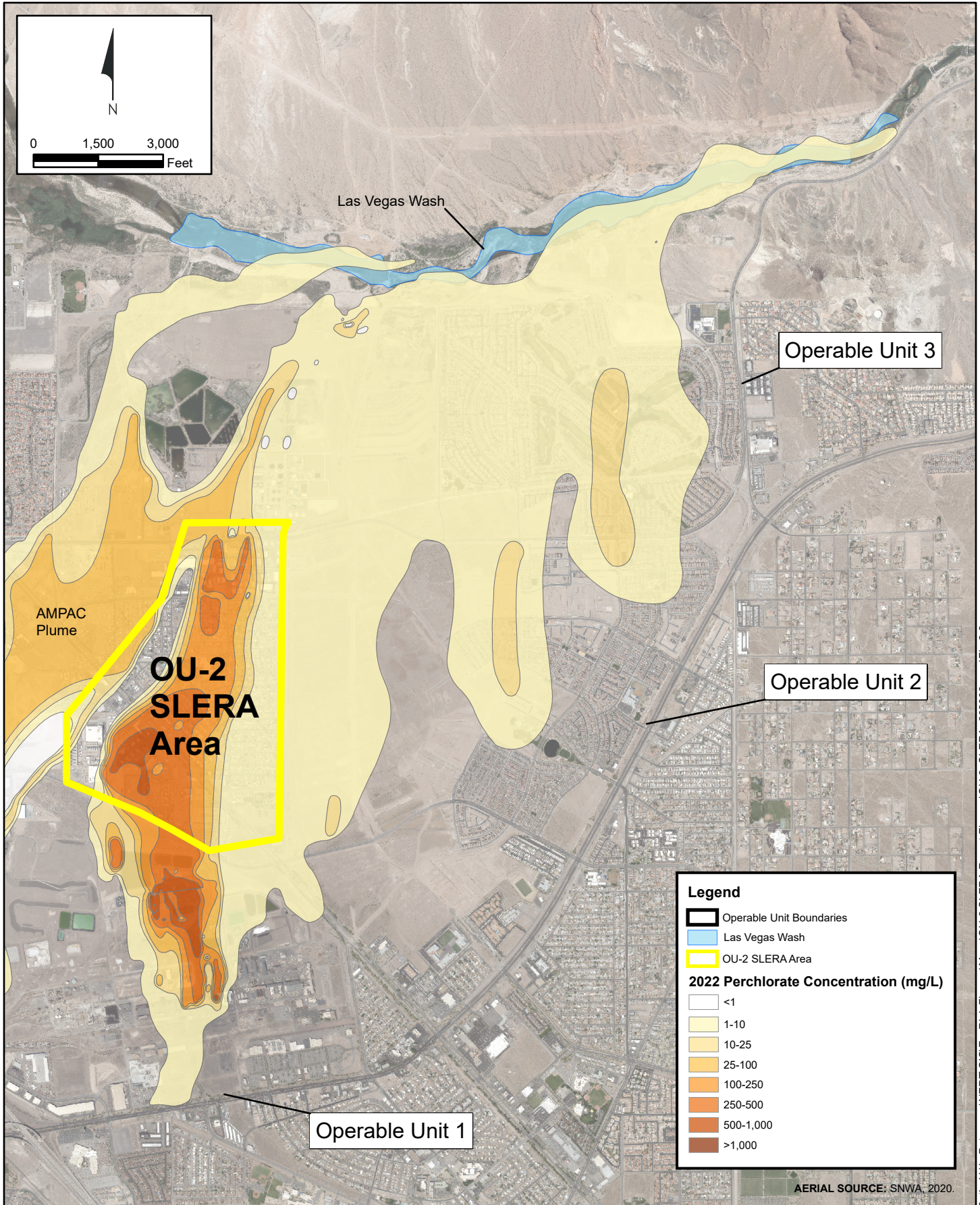
Path: H:\LePetomane\NERT\GIS\EcoRisk_Figures\OU-2_SLERA_Report_Figures\OU-2_SLERA_Report_Figures.aprx\Fig 2-1



Clark County Ecosystem Distribution Map
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-1

Drafter: RS Date: 2021-07-29 Contract Number: 1690020169 Approved by: Revised:



Perchlorate Groundwater Plume
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-2

Drafter: RS/JC Date: 2023-03-06 Contract Number: 1690025040 Approved by: Revised:

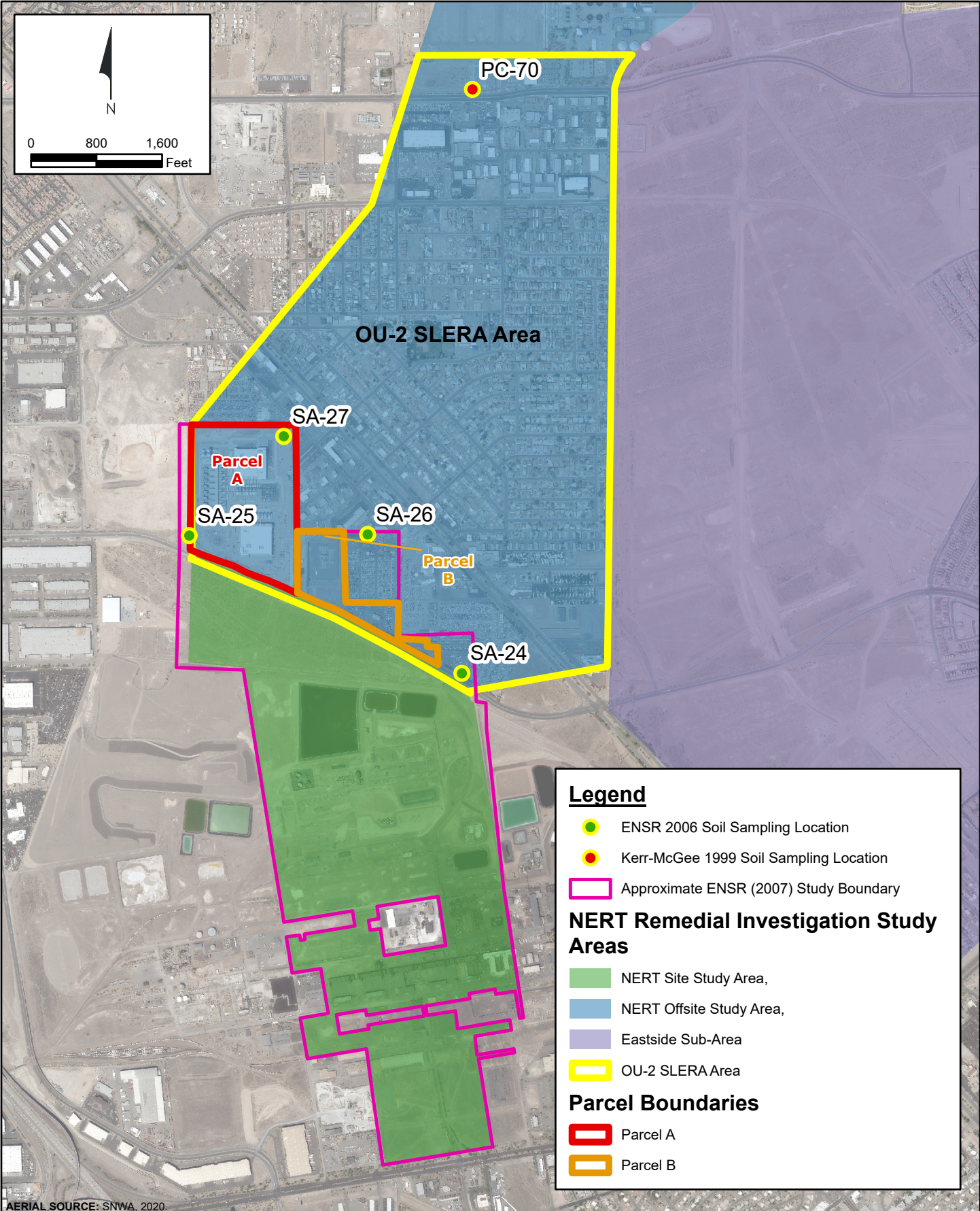
Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\OU-2 SLERA Report\Figures\OU-2 SLERA_202302.aprx\Fig 2-2



Soil Remediation Areas in Parcels A and B
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-3





AERIAL SOURCE: SNWA, 2020.



Kerr McGee (1999) and ENSR (2007) Surface Soil Sampling Locations in the OU-2 Refined SLERA Area
 Nevada Environmental Response Trust Site, Henderson, Nevada

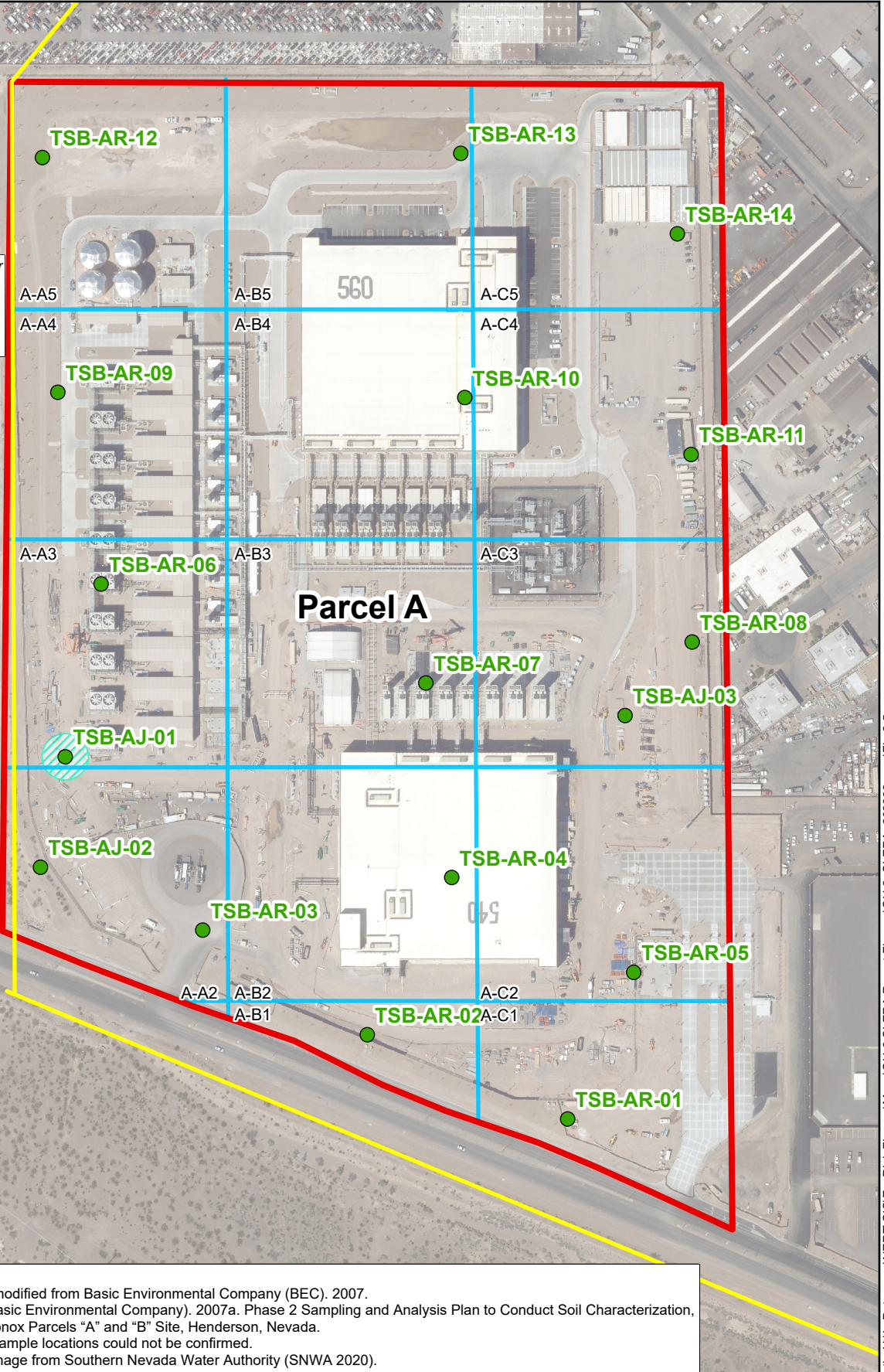
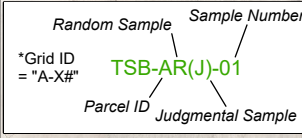
Figure
2-4

Drafter: RS/JC Date: 2023-02-14 Contract Number: 1690020169 Approved by: Revised:

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\OU-2 SLERA Report\Figures\OU-2 SLERA_202302.aprx\Fig 2-4

Legend

- Surface Soil Sampling Location
- Parcel A
- 4-Acre Random Sampling Grid*
- Approximate Gravel Pile
- OU-2 SLERA Area



NOTE:
 Figure modified from Basic Environmental Company (BEC). 2007.
 BEC (Basic Environmental Company). 2007a. Phase 2 Sampling and Analysis Plan to Conduct Soil Characterization, Tronox Parcels "A" and "B" Site, Henderson, Nevada.
 Actual sample locations could not be confirmed.
 Aerial image from Southern Nevada Water Authority (SNWA 2020).

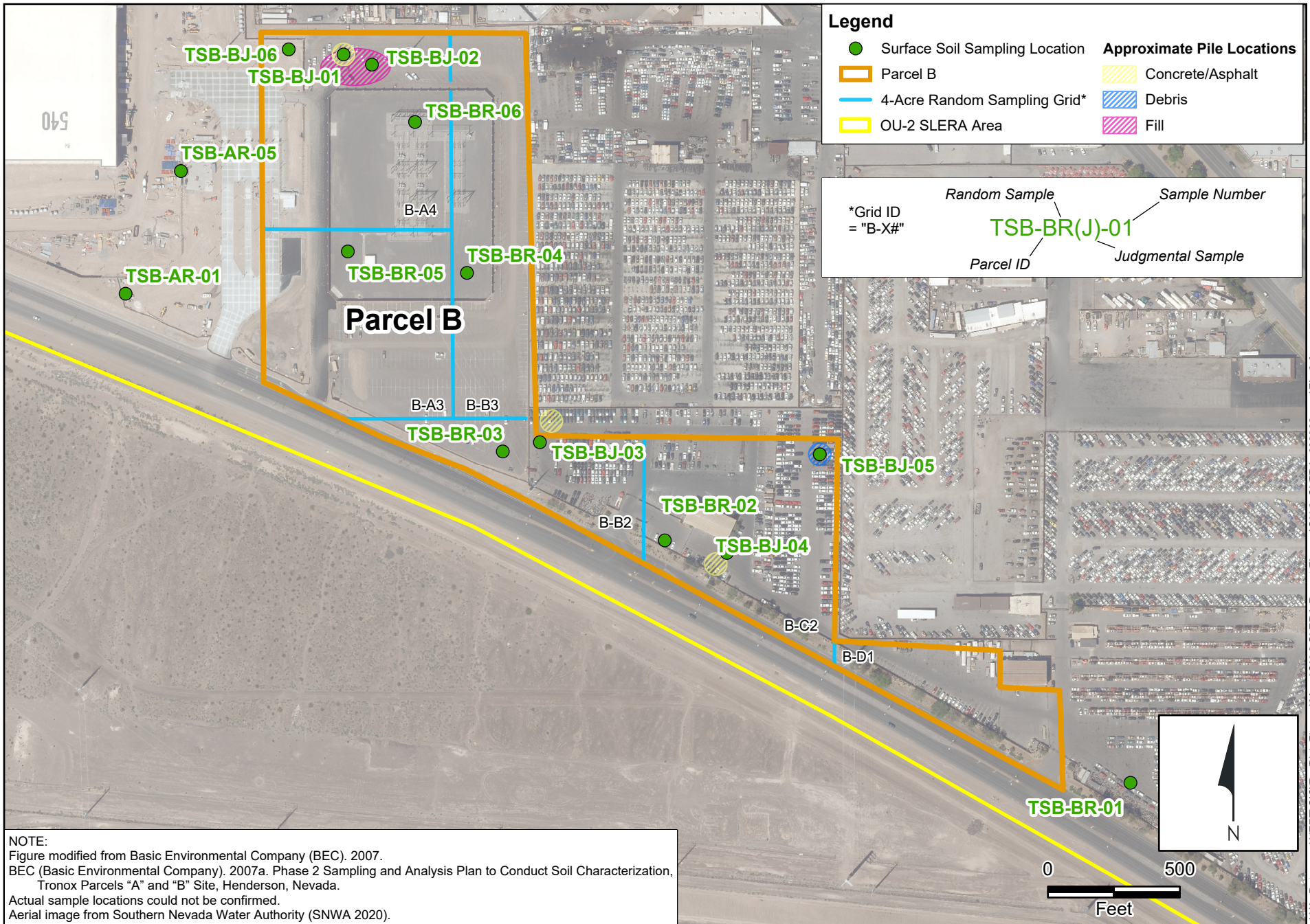


BEC 2007 Soil Sample Locations - Parcel A
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-5

Drafter: EF/MS Date: 2023-02-14 Contract Number: 1690020169 Approved by: Revised:

Path: H:\LePetomane\NERT\GIS\EcoRisk\Maps\OU-2 SLERA Report\Figures\OU-2_SLERA_202302.aprx\Fig 2-5



Legend

- Surface Soil Sampling Location
- Parcel B
- 4-Acre Random Sampling Grid*
- OU-2 SLERA Area
- Concrete/Asphalt
- Debris
- Fill

*Grid ID = "B-X#"

Random Sample
Sample Number
TSB-BR(J)-01
Parcel ID
Judgmental Sample

NOTE:
 Figure modified from Basic Environmental Company (BEC). 2007.
 BEC (Basic Environmental Company). 2007a. Phase 2 Sampling and Analysis Plan to Conduct Soil Characterization, Tronox Parcels "A" and "B" Site, Henderson, Nevada.
 Actual sample locations could not be confirmed.
 Aerial image from Southern Nevada Water Authority (SNWA 2020).



BEC 2007 Soil Sample Locations - Parcel B
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-6

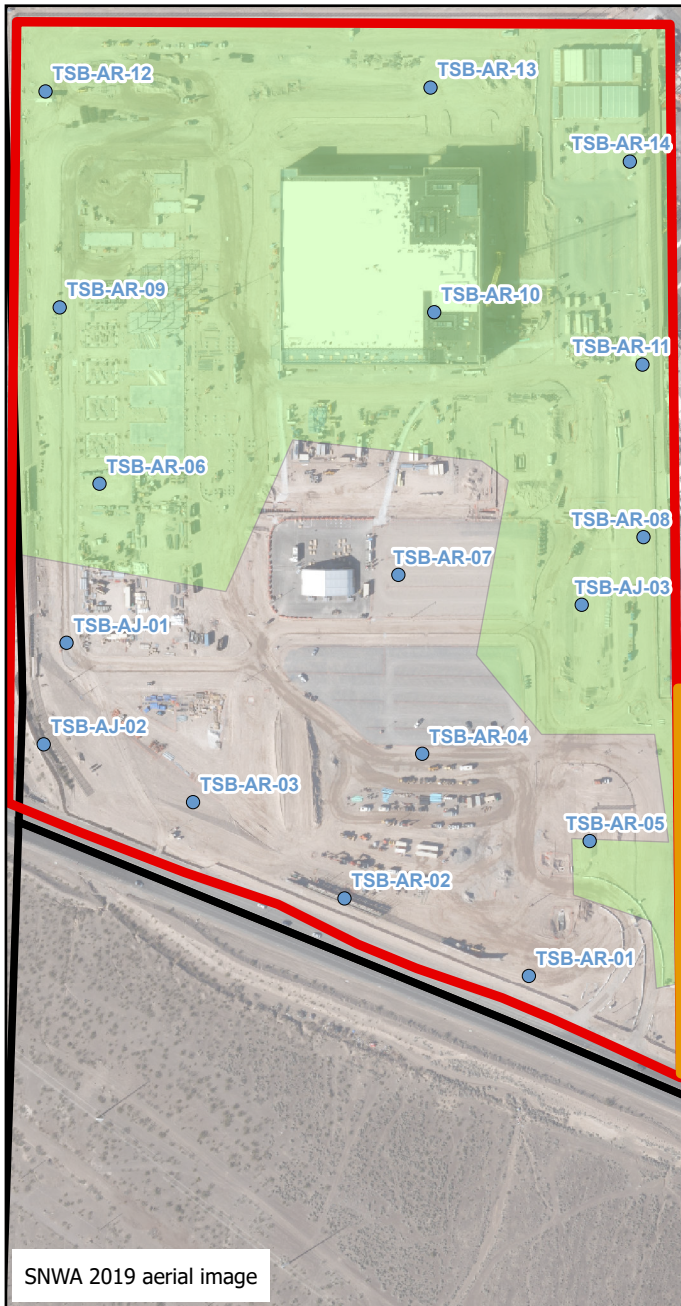
Drafter: RS/MS

Date: 2023-02-14

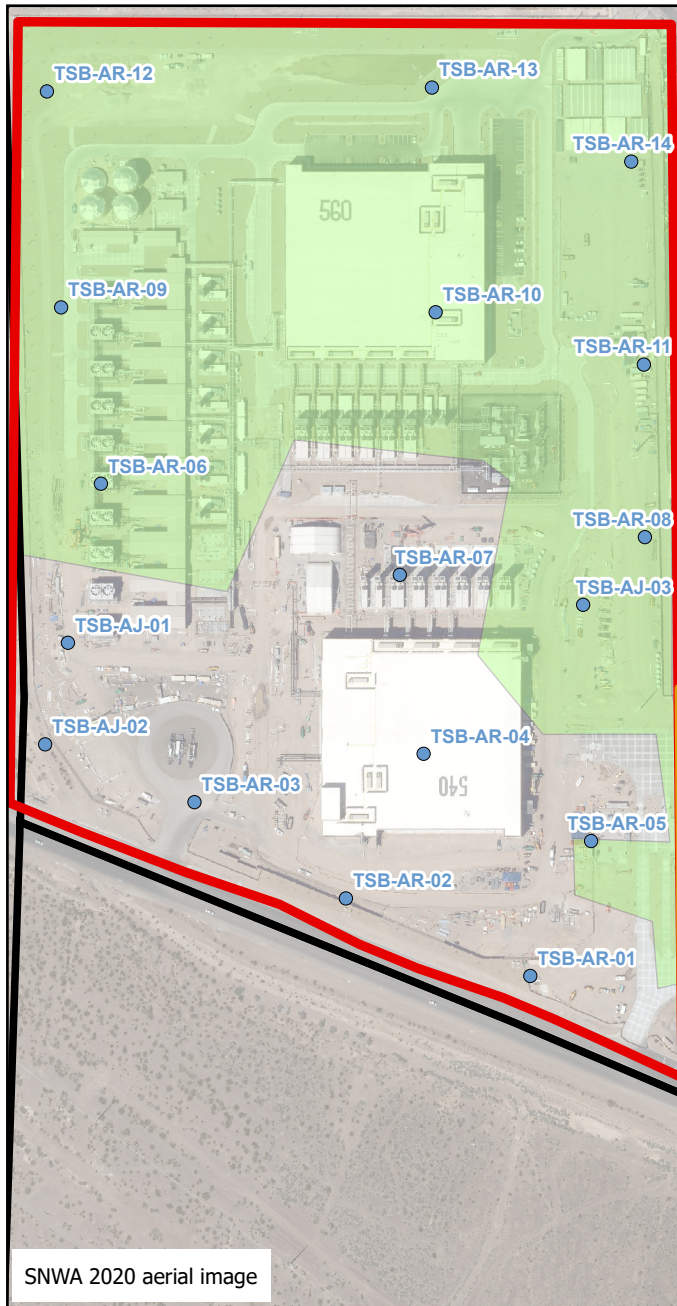
Contract Number: 1690020169

Approved by:

Revised:



SNWA 2019 aerial image



SNWA 2020 aerial image

Samples for Parcel A and Parcel B were collected between 2006 and 2007. To the left are two aerial photographs. The one to the left overlays the Parcel A sample locations onto a 2019 aerial photograph obtained from the Southern Nevada Water Authority. The aerial photograph to the right is the the Southern Nevada Water Authority's 2020 imagery.

The complex depicted as being constructed is a data center for Google. Based on the most recent aerial photograph, some samples are depicted as currently being under asphalt or gravel, or under buildings or other structures. Presumably, in the future, all locations will be under some sort of structure (building, concrete, or asphalt) thereby eliminating or reducing any remaining ecological risk in Parcel A. As a conservative measure and to preserve the sample size of the OU-2 dataset, all Parcel A samples locations were considered in the refined HQ evaluation.

Current and Future Land Use for Parcel A Compared to OU-2 Sample Locations
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-7



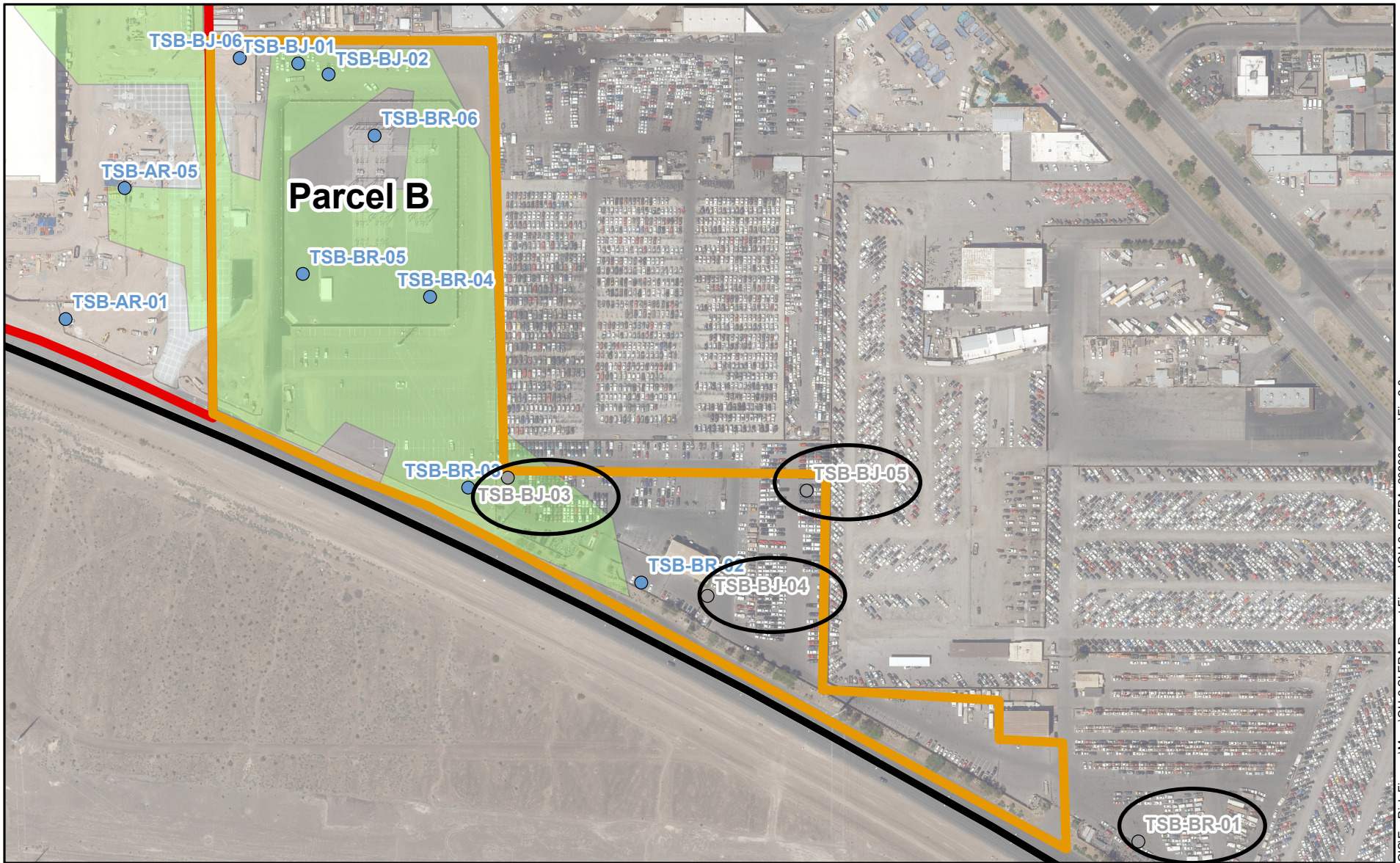
Drafter: RS/MS

Date: 2023-02-14

Contract Number: 1690020169

Approved by:

Revised:



Samples for Parcel B were collected between 2006 and 2007. As can be seen in the figure, the western portion of Parcel B is predominantly used as a gated gravel or concrete surfaced transformer area and the eastern portion of BEC Parcel B is predominantly an asphalt-covered parking area. Four locations within the paved parking areas (TSB-BR-01, TSB-BJ-03, TSB-BJ-04, and TSB-BJ-05) were removed from the dataset for the refined evaluation, as ecological exposures do not occur for these paved locations.

Aerial image from Southern Nevada Water Authority (SNWA 2020).



Current and Future Land Use for Parcel B Compared to OU-2 Sample Locations
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-8

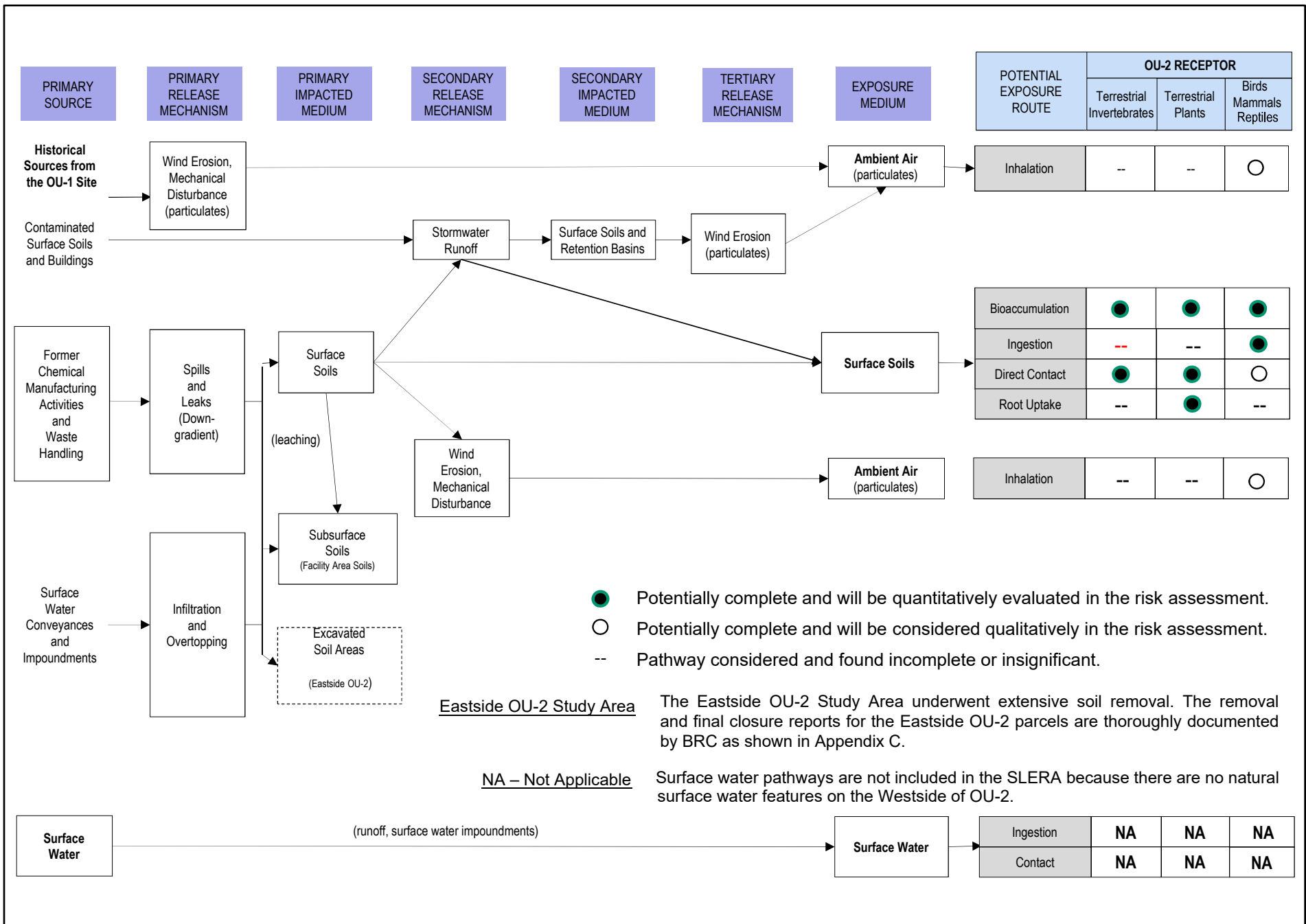
Drafter: JC

Date: 2023-02-14

Contract Number: 1690020169

Approved by:

Revised:



Ecological Conceptual Site Model for the OU-2 Refined SLERA Area
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
2-9

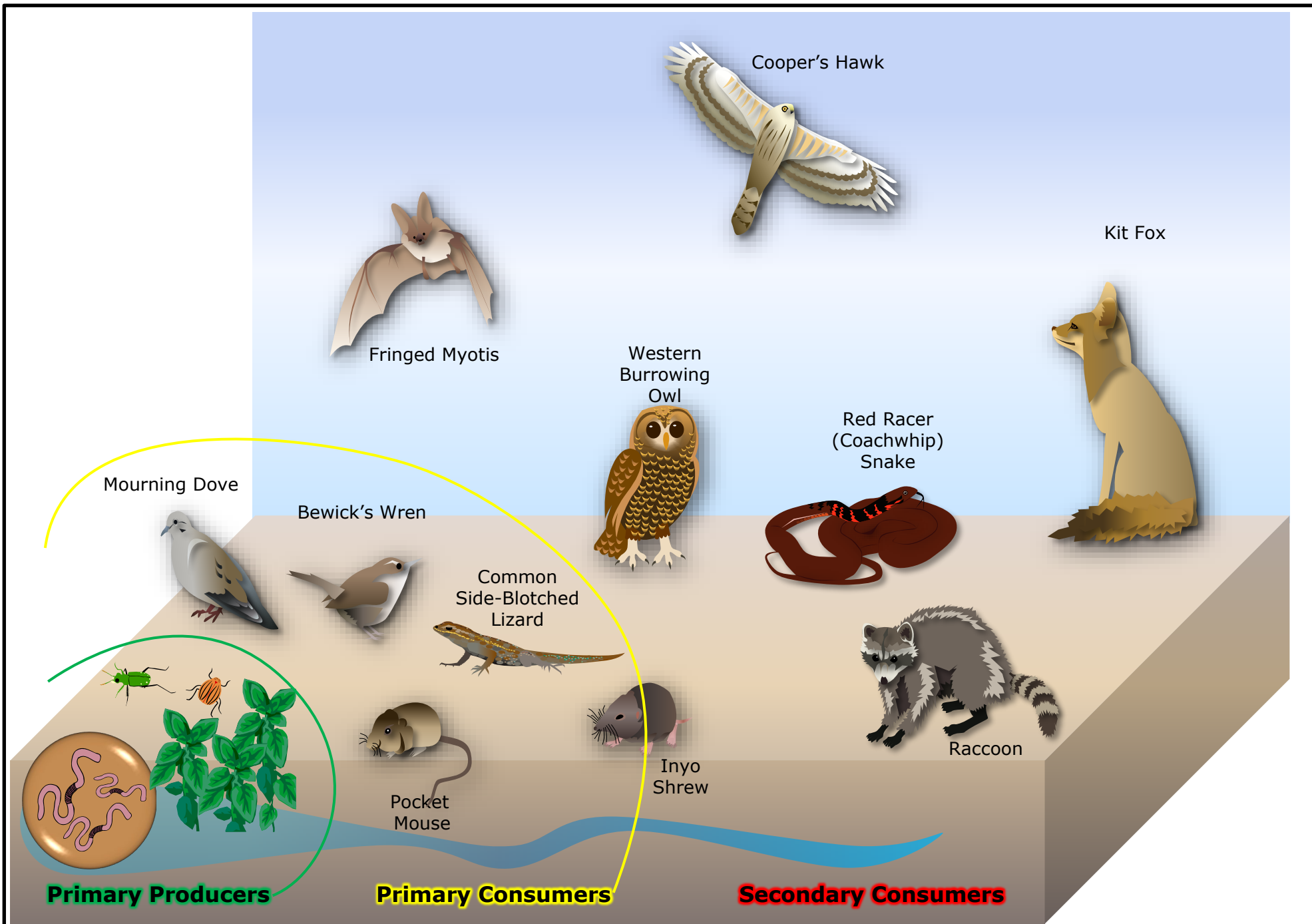
Drafter: LM/JC

Date: 2021-08-03

Contract Number: 1690020169

Approved by:

Revised:



DESERT FOOD WEB
 Nevada Environmental Response Trust,
 Henderson, Nevada

FIGURE
2-10

Legend

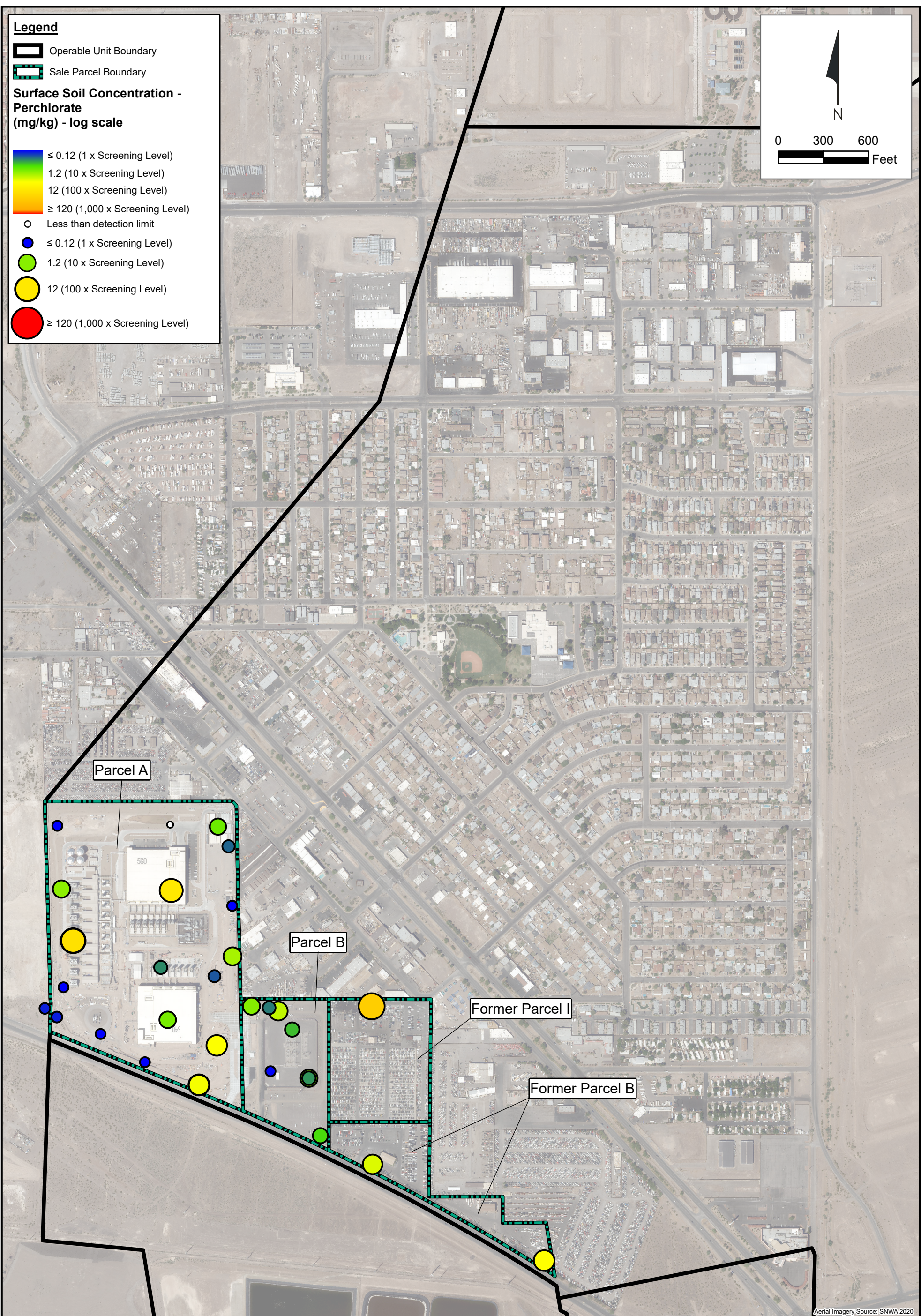
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Perchlorate (mg/kg) - log scale

- ≤ 0.12 (1 x Screening Level)
- 1.2 (10 x Screening Level)
- 12 (100 x Screening Level)
- ≥ 120 (1,000 x Screening Level)

○ Less than detection limit

- ≤ 0.12 (1 x Screening Level)
- 1.2 (10 x Screening Level)
- 12 (100 x Screening Level)
- ≥ 120 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_1.aprx\Figure 3-1a Perchlorate

Aerial Imagery Source: SNWA 2020



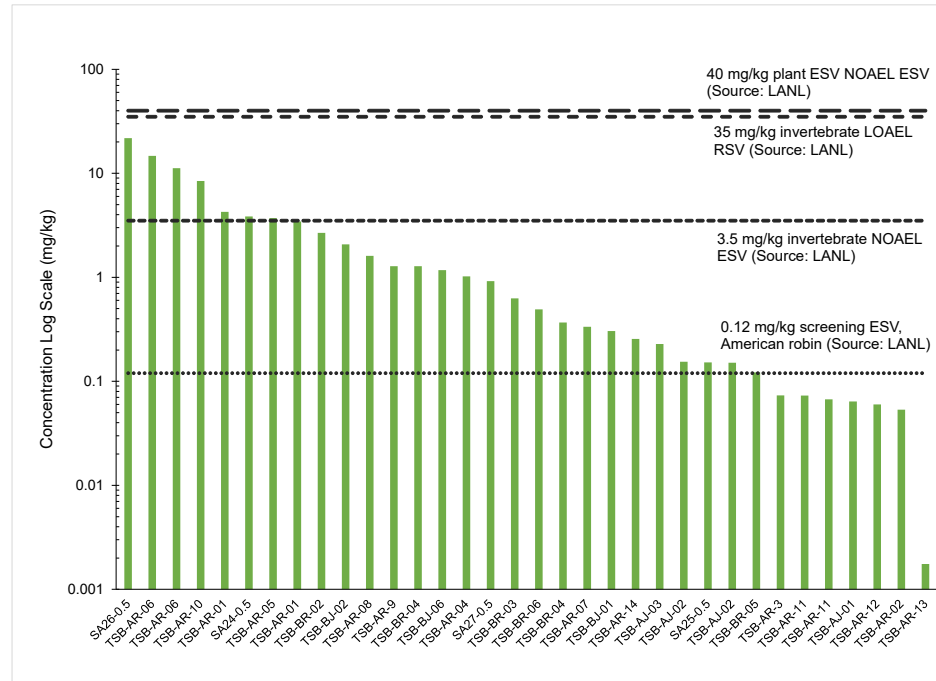
Spatial Surface Soil Concentration Plot for Perchlorate Using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-1a

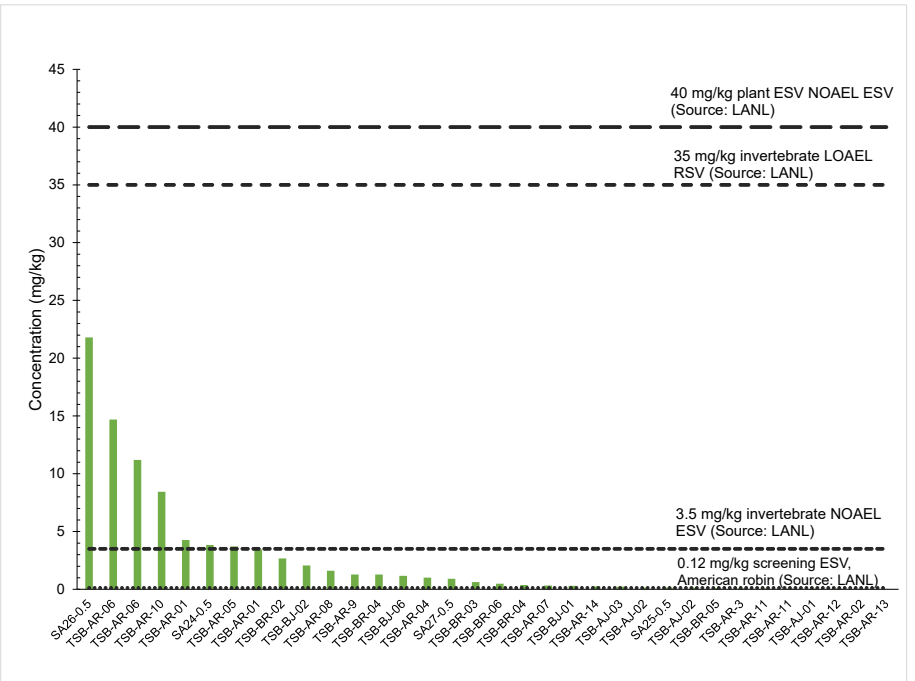
Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Perchlorate in Soil (Log Normal Scale)



Perchlorate in Soil (Normal Scale)



ESV = Ecological screening value
 RSV = Refined screening value
 mg/kg = Milligram per kilogram
 NOAEL = No observable adverse effects level
 LOAEL = Lowest observable adverse effects level
 LANL = Los Alamos National Laboratory

Non-detected concentrations treated as one-half the laboratory detection limit.



Perchlorate Concentrations per Location in the OU-2 Refined SLERA Area
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
3-1b

Drafter: LM/JC

Date: 2021-08-03

Contract Number: 1690020169

Approved by:

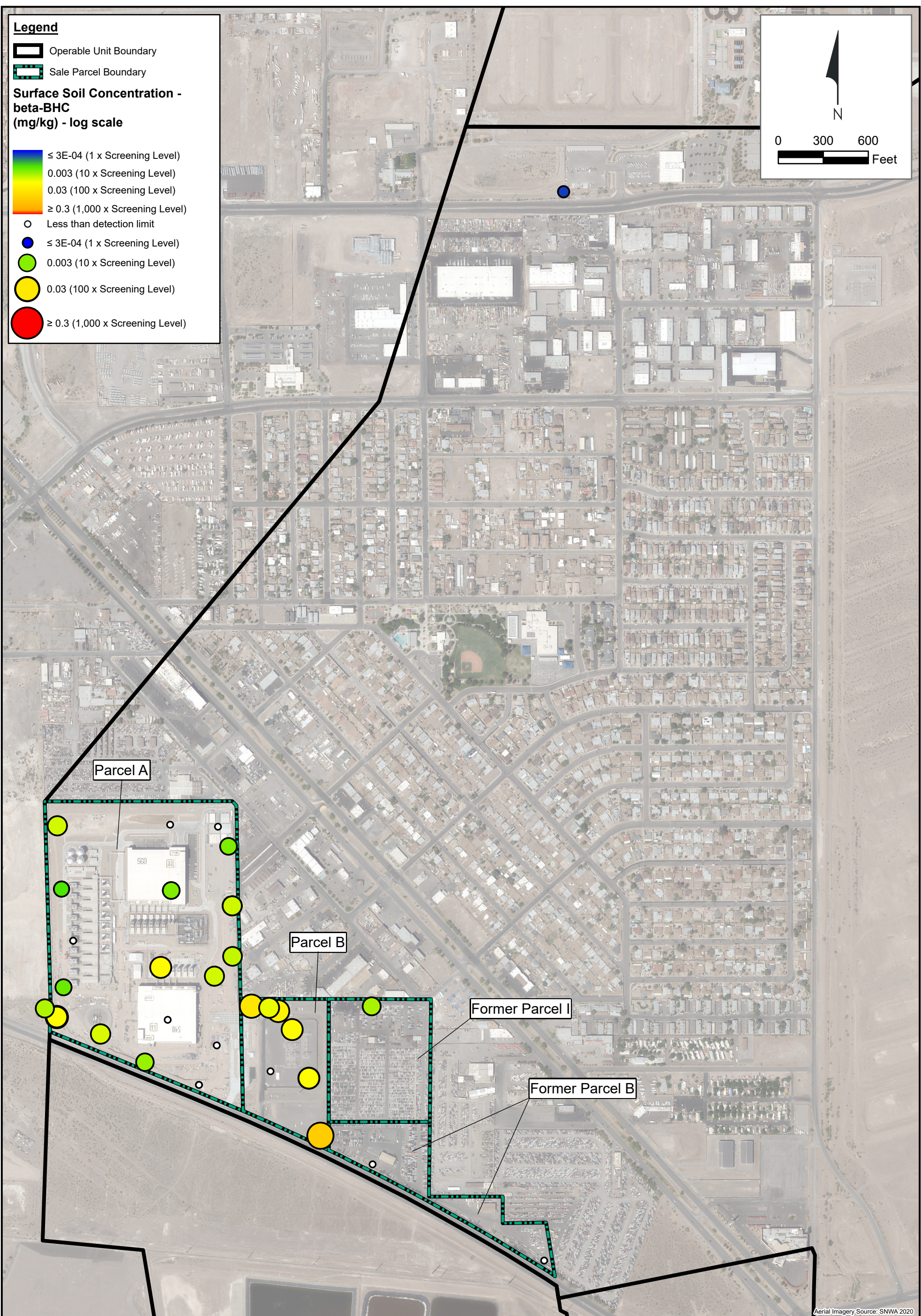
Revised:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - beta-BHC (mg/kg) - log scale

- ≤ 3E-04 (1 x Screening Level)
- 0.003 (10 x Screening Level)
- 0.03 (100 x Screening Level)
- ≥ 0.3 (1,000 x Screening Level)
- Less than detection limit
- ≤ 3E-04 (1 x Screening Level)
- 0.003 (10 x Screening Level)
- 0.03 (100 x Screening Level)
- ≥ 0.3 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-2a beta-BHC

Aerial Imagery Source: SNWA 2020

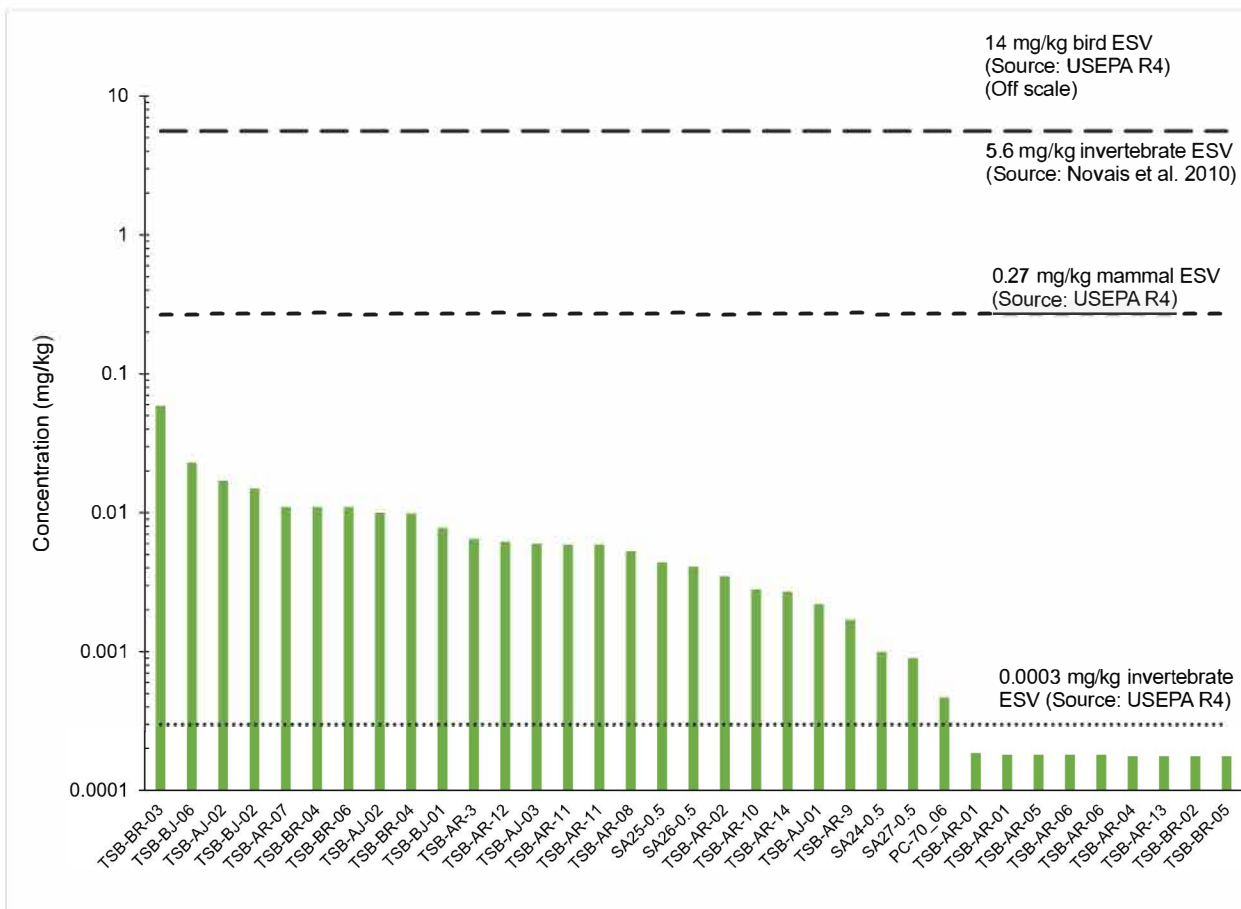


Spatial Surface Soil Concentration Plot for beta-BHC
Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-2a

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:



ESV = Ecological screening value
 RSV = Refined screening value
 USEPA = United States Environmental Protection Agency
 mg/kg = Milligram per kilogram
 R4 = Region 4

Novais et al. 2010, study shows a reproductive NOEL of 18 mg/kg and a mortality no observable effects level (NOEL) of 5.6 mg/kg was reported for the potworm (soil invertebrate) after a 42-day exposure; the lower mortality endpoint is used

Beta-BHC Concentrations per Location in the OU-2 Refined SLERA Area
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Figure
3-2b



Drafter: LM/JC

Date: 2021-08-03

Contract Number: 1690020169

Approved by:

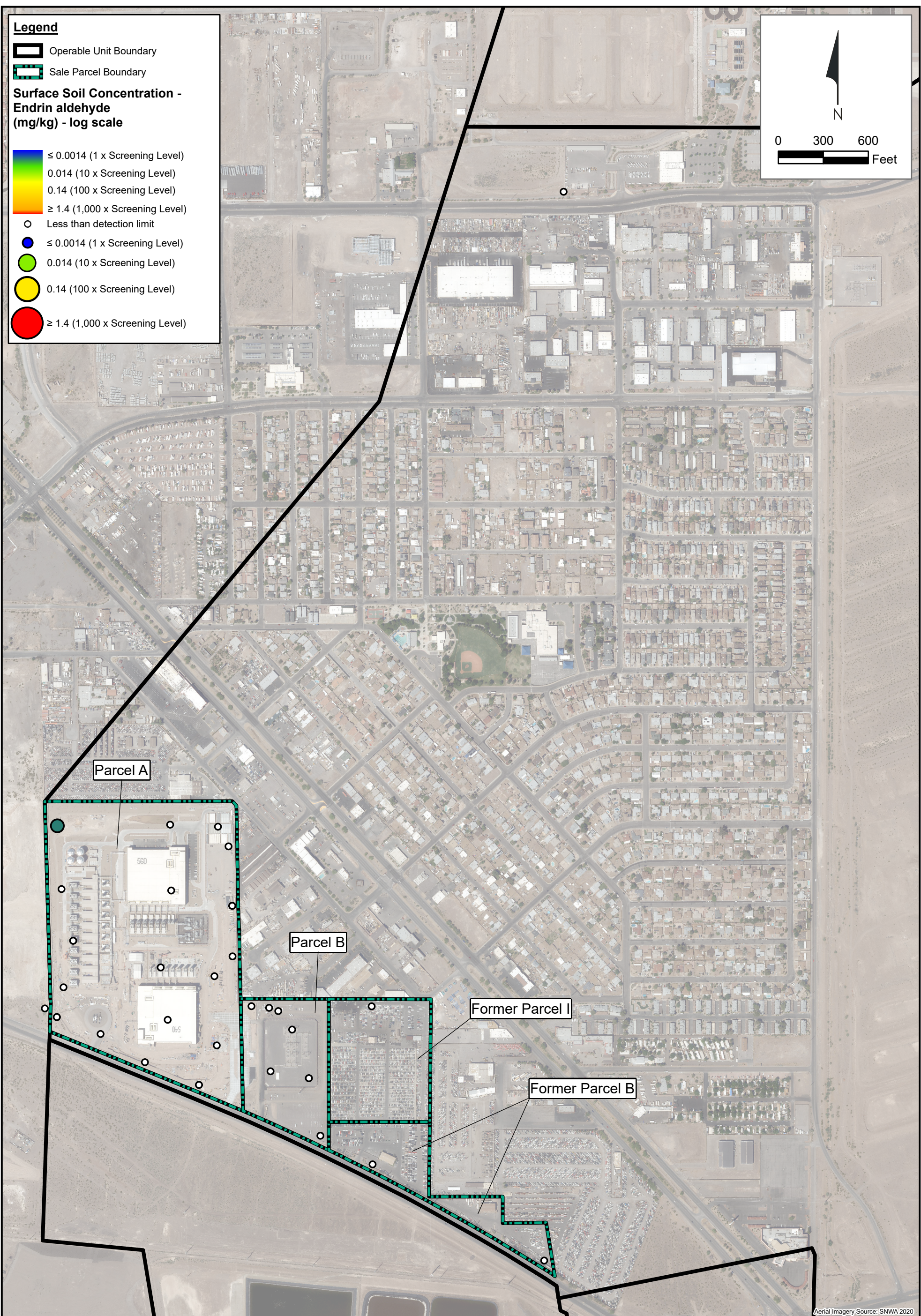
Revised:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Endrin aldehyde (mg/kg) - log scale

- ≤ 0.0014 (1 x Screening Level)
- 0.014 (10 x Screening Level)
- 0.14 (100 x Screening Level)
- ≥ 1.4 (1,000 x Screening Level)
- Less than detection limit
- ≤ 0.0014 (1 x Screening Level)
- 0.014 (10 x Screening Level)
- 0.14 (100 x Screening Level)
- ≥ 1.4 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_1.aprx\Figure 3-3 Endrin aldehyde

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Endrin Aldehyde
Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-3






Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

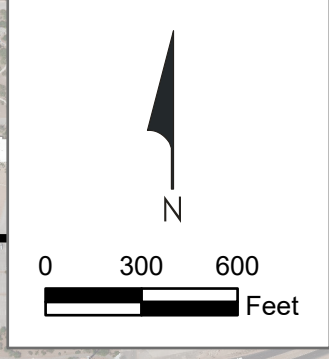
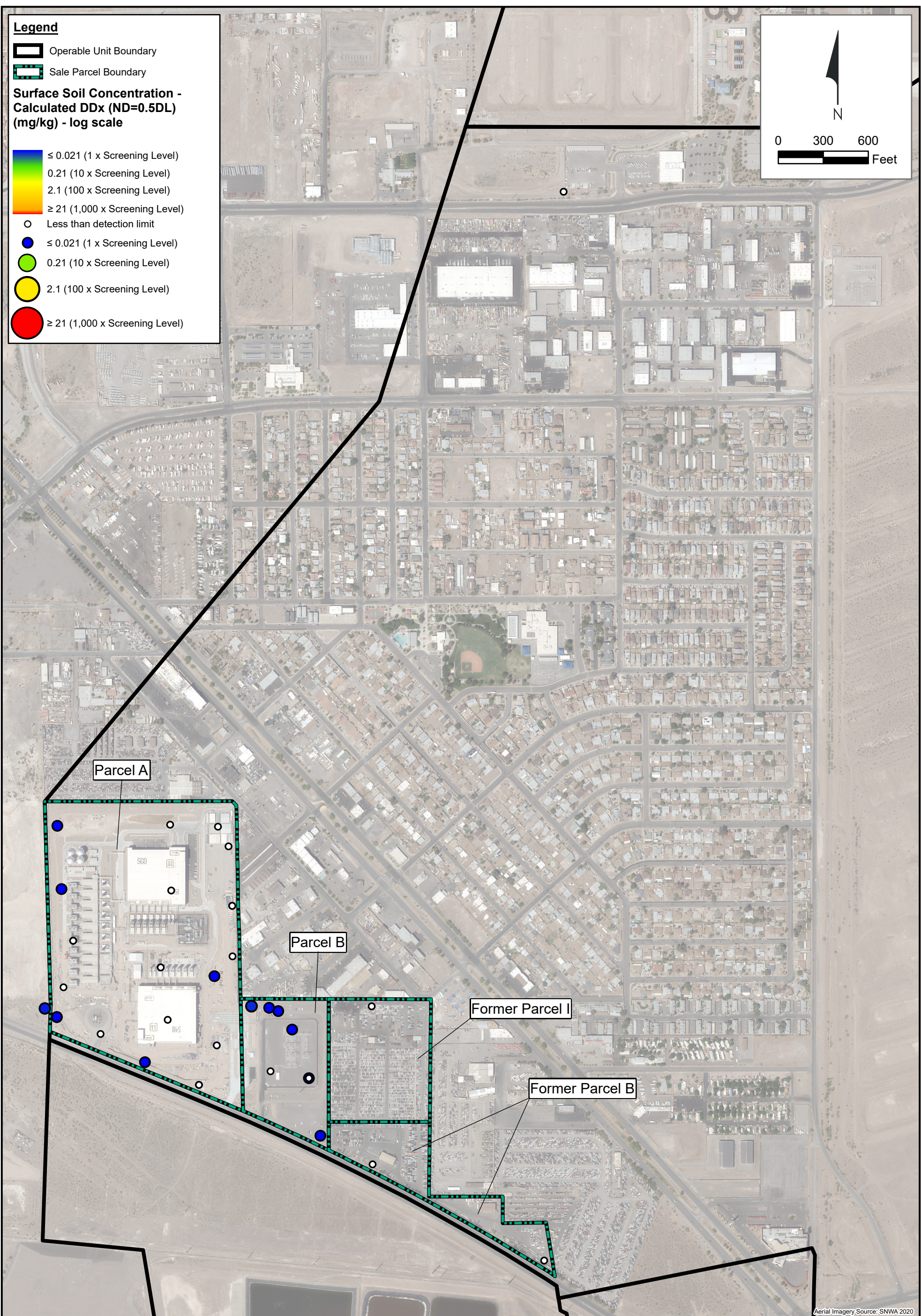
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Calculated DDx (ND=0.5DL) (mg/kg) - log scale

-  ≤ 0.021 (1 x Screening Level)
-  0.21 (10 x Screening Level)
-  2.1 (100 x Screening Level)
-  ≥ 21 (1,000 x Screening Level)
-  Less than detection limit

-  ≤ 0.021 (1 x Screening Level)
-  0.21 (10 x Screening Level)
-  2.1 (100 x Screening Level)
-  ≥ 21 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-4 Calculated DDx (ND=0.5DL)

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Calculated DDx (ND=0.5DL) Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-4





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:





Legend

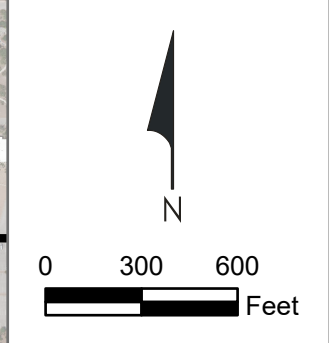
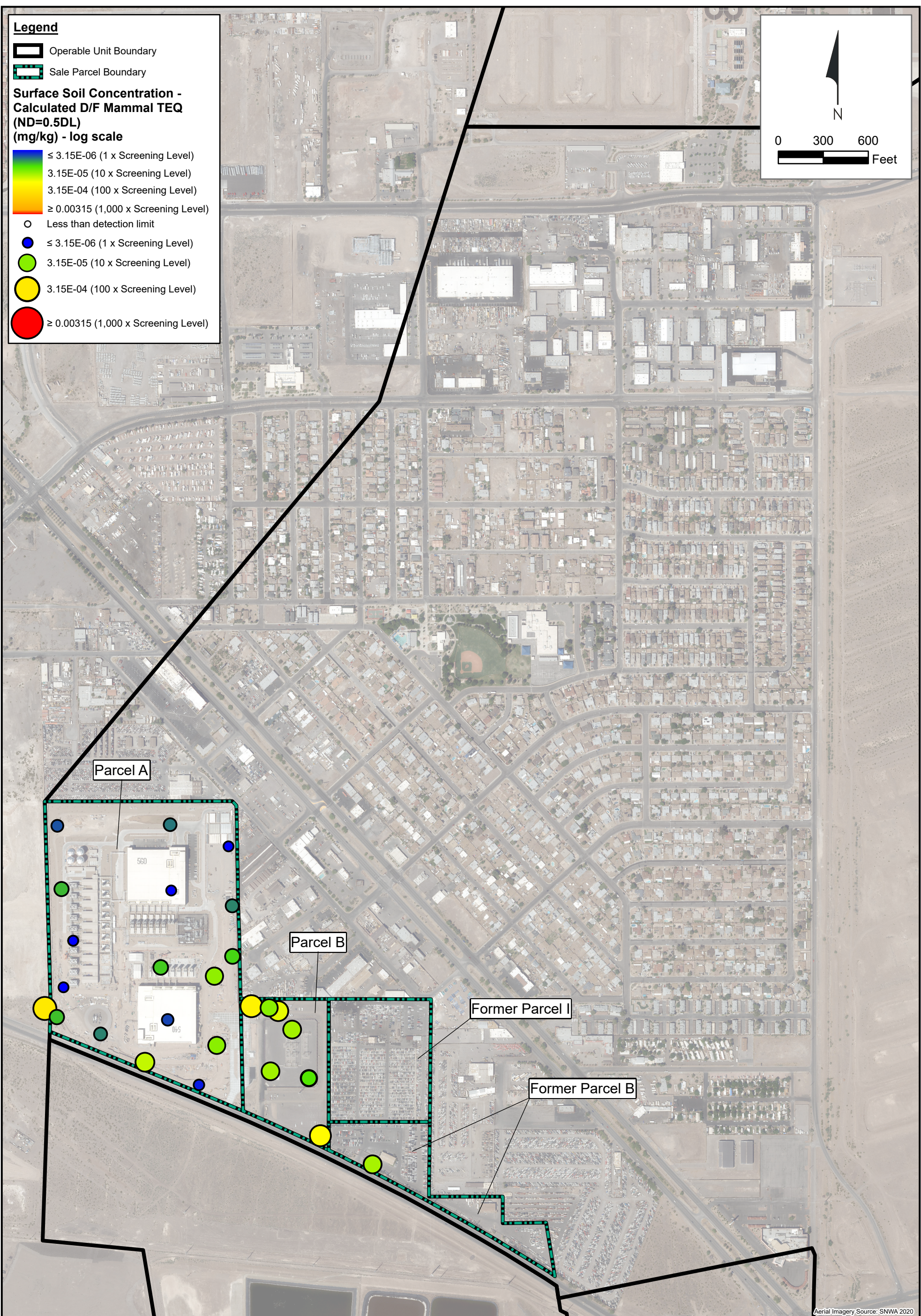
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Calculated D/F Mammal TEQ (ND=0.5DL) (mg/kg) - log scale

-  $\leq 3.15E-06$ (1 x Screening Level)
-  $3.15E-05$ (10 x Screening Level)
-  $3.15E-04$ (100 x Screening Level)
-  ≥ 0.00315 (1,000 x Screening Level)

○ Less than detection limit

-  $\leq 3.15E-06$ (1 x Screening Level)
-  $3.15E-05$ (10 x Screening Level)
-  $3.15E-04$ (100 x Screening Level)
-  ≥ 0.00315 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-5 Ramboll calculated TEQ (mammals; ND=0.5DL)

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Calculated D/F Mammal TEQ (ND=0.5DL) Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-5





Drafter: JC Date: 2023-02-14 Contract Number: 169000 6943 Approved: Revised:






Last Saved By:

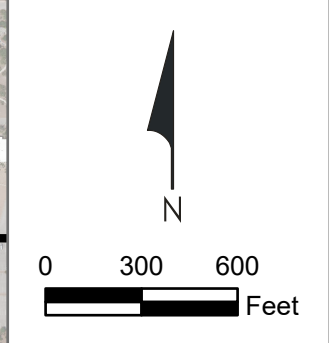
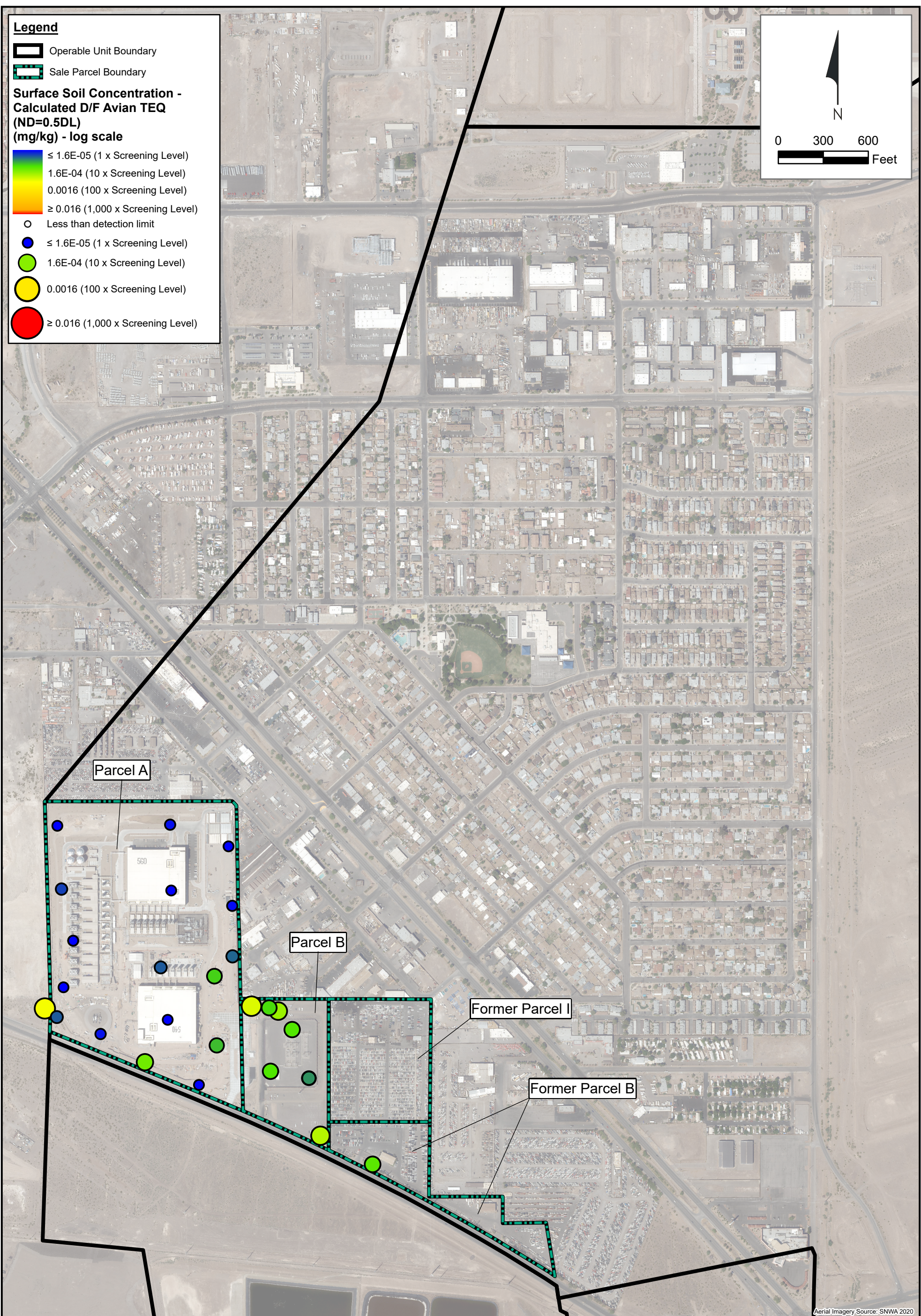
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Calculated D/F Avian TEQ (ND=0.5DL) (mg/kg) - log scale

-  $\leq 1.6E-05$ (1 x Screening Level)
-  $1.6E-04$ (10 x Screening Level)
-  0.0016 (100 x Screening Level)
-  ≥ 0.016 (1,000 x Screening Level)

-  Less than detection limit
-  $\leq 1.6E-05$ (1 x Screening Level)
-  $1.6E-04$ (10 x Screening Level)
-  0.0016 (100 x Screening Level)
-  ≥ 0.016 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-6 Ramboll calculated TEQ (birds; ND=0.5DL)

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Calculated D/F Avian TEQ (ND=0.5DL) Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-6










Drafter: JC Date: 2023-02-14 Contract Number: 169000 6943 Approved: Revised:

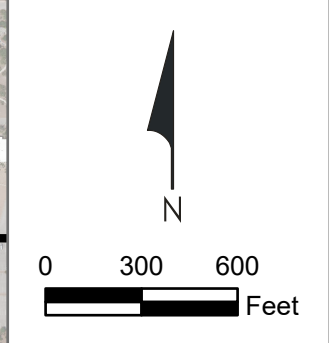
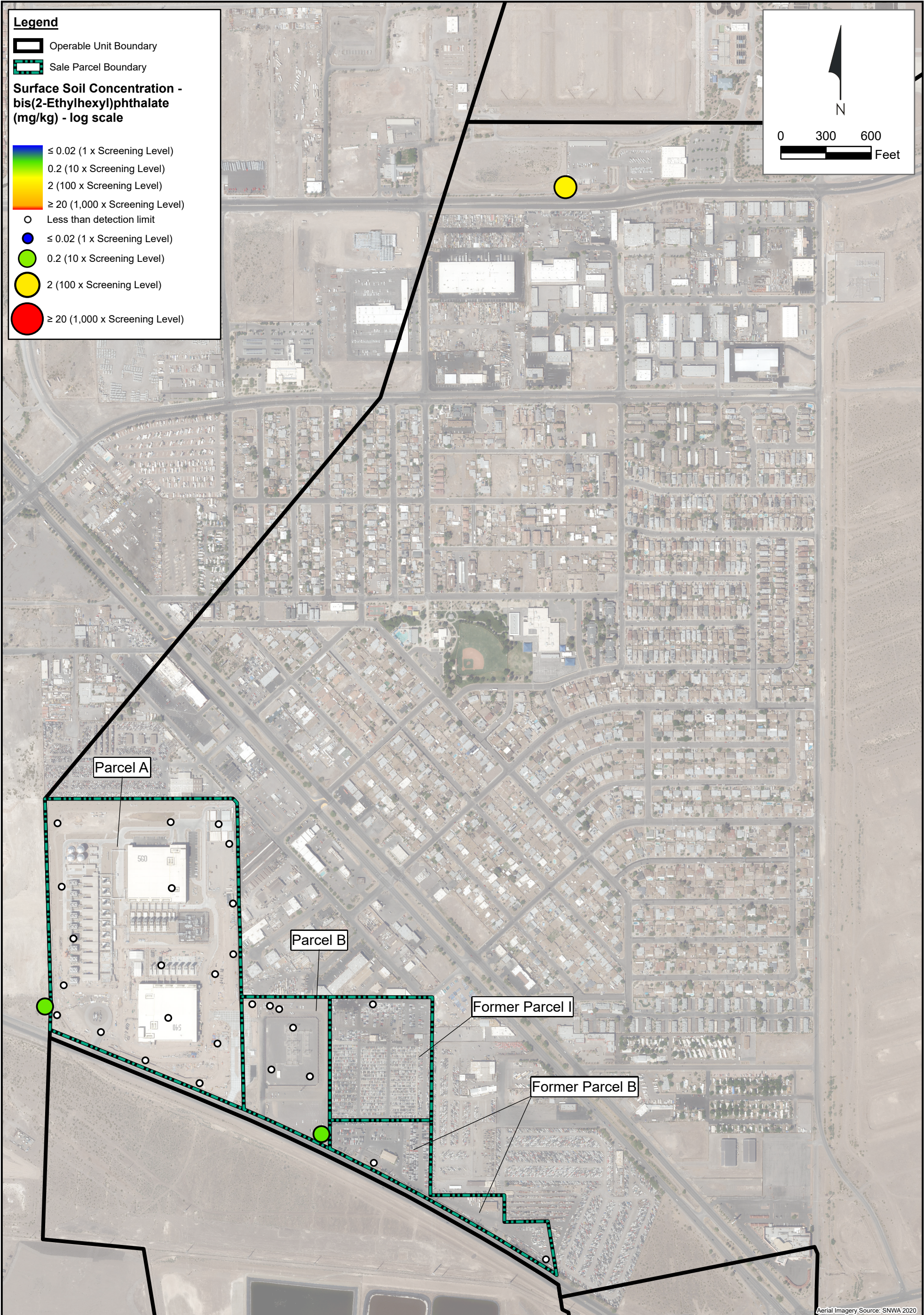
Last Saved By:

Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - bis(2-Ethylhexyl)phthalate (mg/kg) - log scale

-  ≤ 0.02 (1 x Screening Level)
-  0.2 (10 x Screening Level)
-  2 (100 x Screening Level)
-  ≥ 20 (1,000 x Screening Level)
-  Less than detection limit
-  ≤ 0.02 (1 x Screening Level)
-  0.2 (10 x Screening Level)
-  2 (100 x Screening Level)
-  ≥ 20 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_1.aprx\Figure 3-7_bis(2-Ethylhexyl)phthalate

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for bis(2-Ethylhexyl)phthalate Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-7










Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

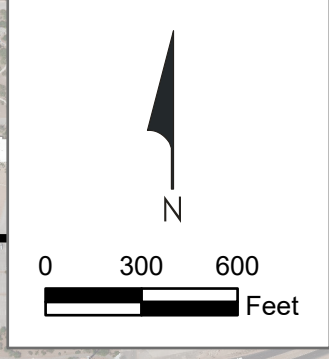
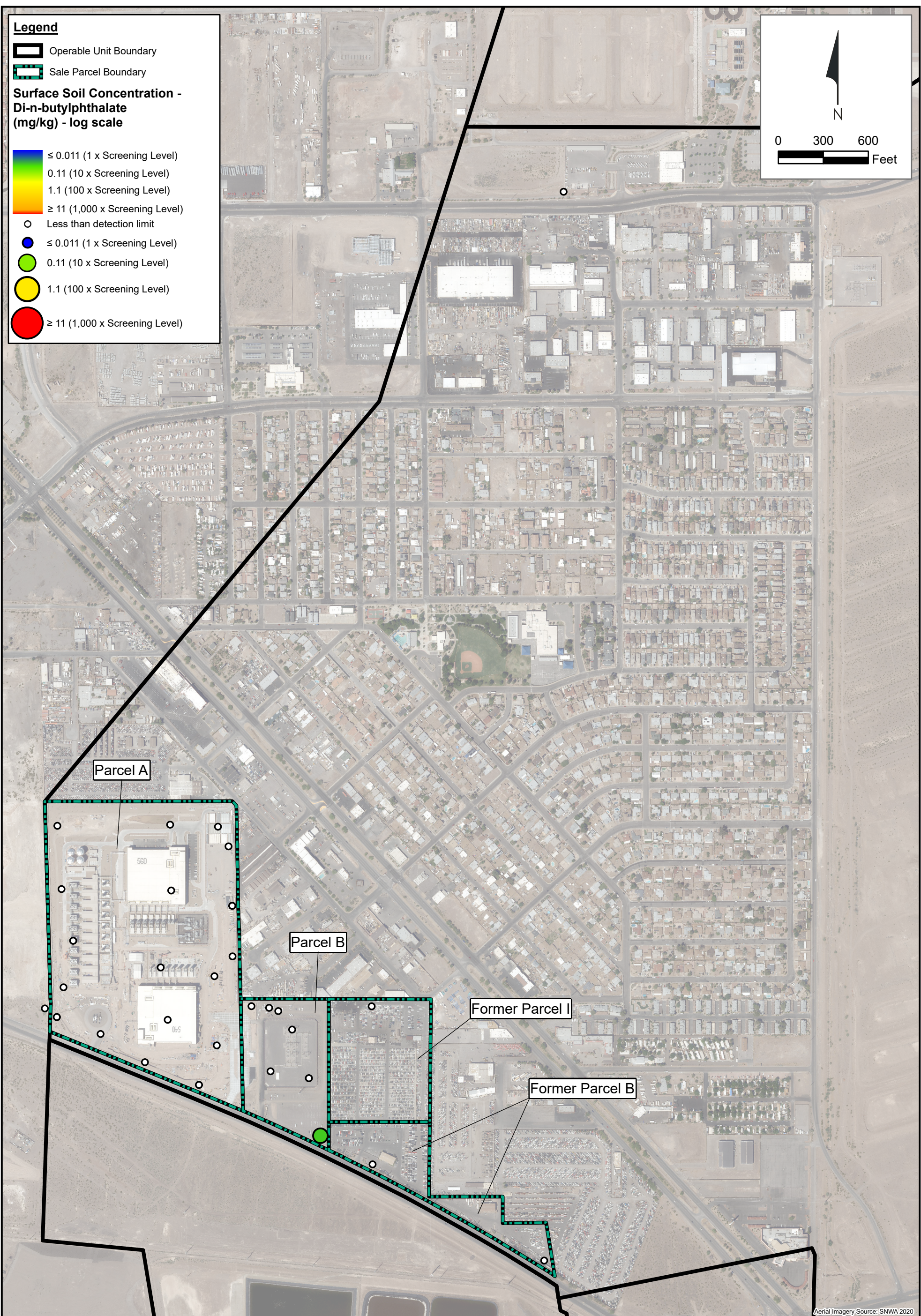
Last Saved By:

Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Di-n-butylphthalate (mg/kg) - log scale

-  ≤ 0.011 (1 x Screening Level)
-  0.11 (10 x Screening Level)
-  1.1 (100 x Screening Level)
-  ≥ 11 (1,000 x Screening Level)
-  Less than detection limit
-  ≤ 0.011 (1 x Screening Level)
-  0.11 (10 x Screening Level)
-  1.1 (100 x Screening Level)
-  ≥ 11 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-8 Di-n-butylphthalate

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Di-n-butylphthalate Using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-8

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

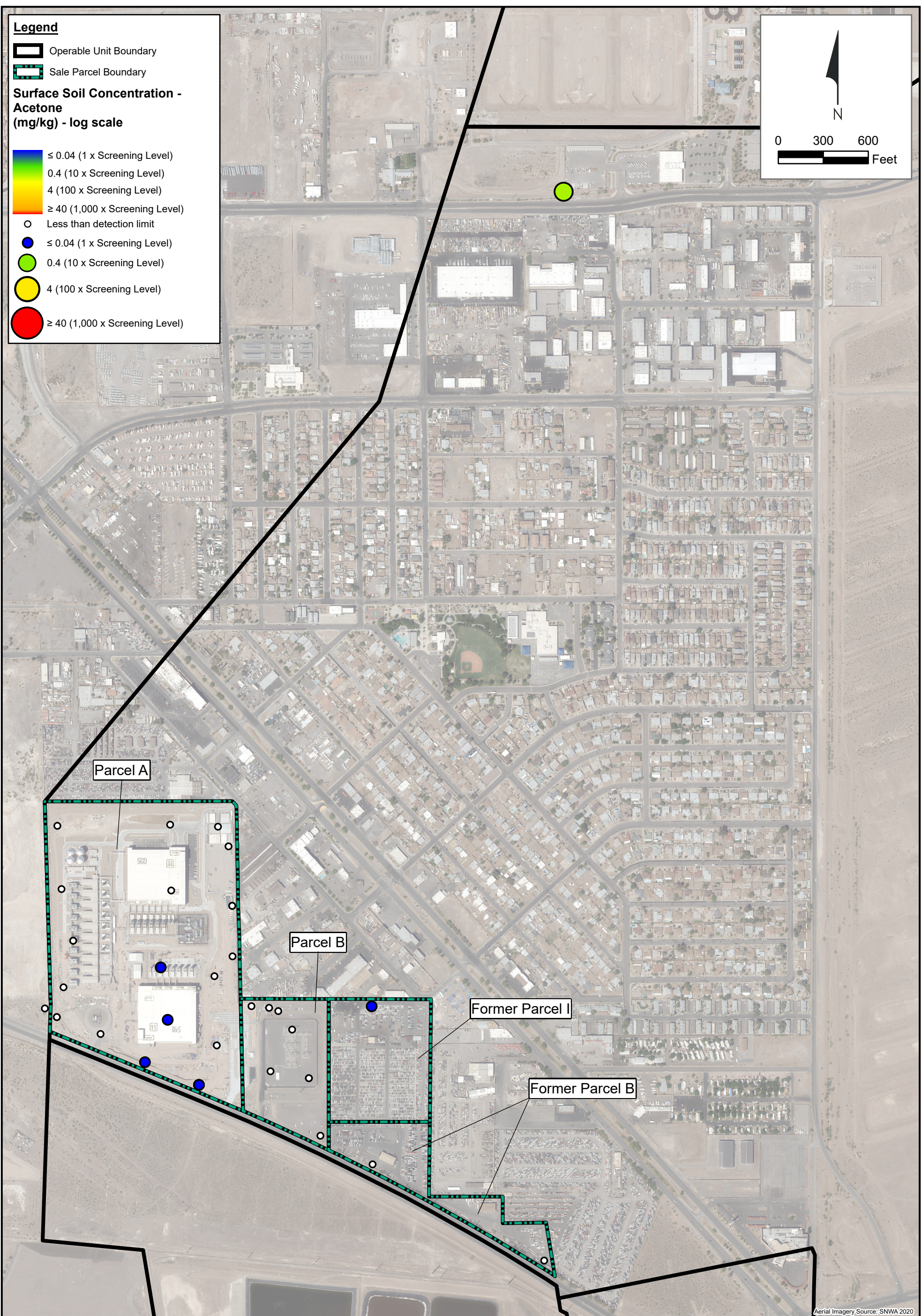
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Acetone (mg/kg) - log scale

- ≤ 0.04 (1 x Screening Level)
- 0.4 (10 x Screening Level)
- 4 (100 x Screening Level)
- ≥ 40 (1,000 x Screening Level)

○ Less than detection limit

- ≤ 0.04 (1 x Screening Level)
- 0.4 (10 x Screening Level)
- 4 (100 x Screening Level)
- ≥ 40 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_1.aprx\Figure 3-9 Acetone

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Acetone Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-9

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

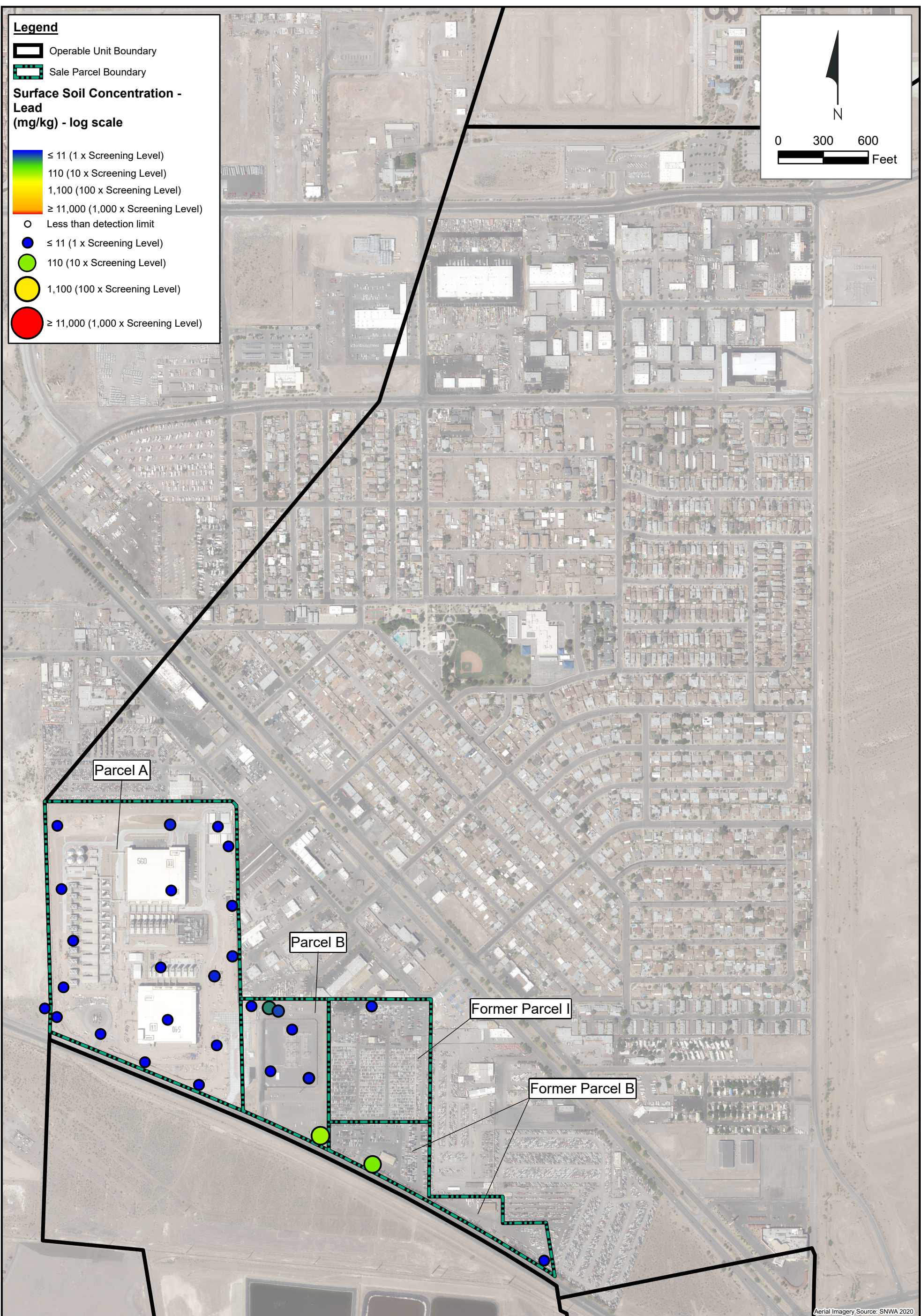
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Lead (mg/kg) - log scale

- ≤ 11 (1 x Screening Level)
- 110 (10 x Screening Level)
- 1,100 (100 x Screening Level)
- ≥ 11,000 (1,000 x Screening Level)

○ Less than detection limit

- ≤ 11 (1 x Screening Level)
- 110 (10 x Screening Level)
- 1,100 (100 x Screening Level)
- ≥ 11,000 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_1.aprx\Figure 3-10 Lead

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Lead Using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-10





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:






Last Saved By:

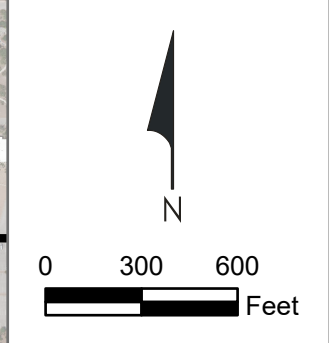
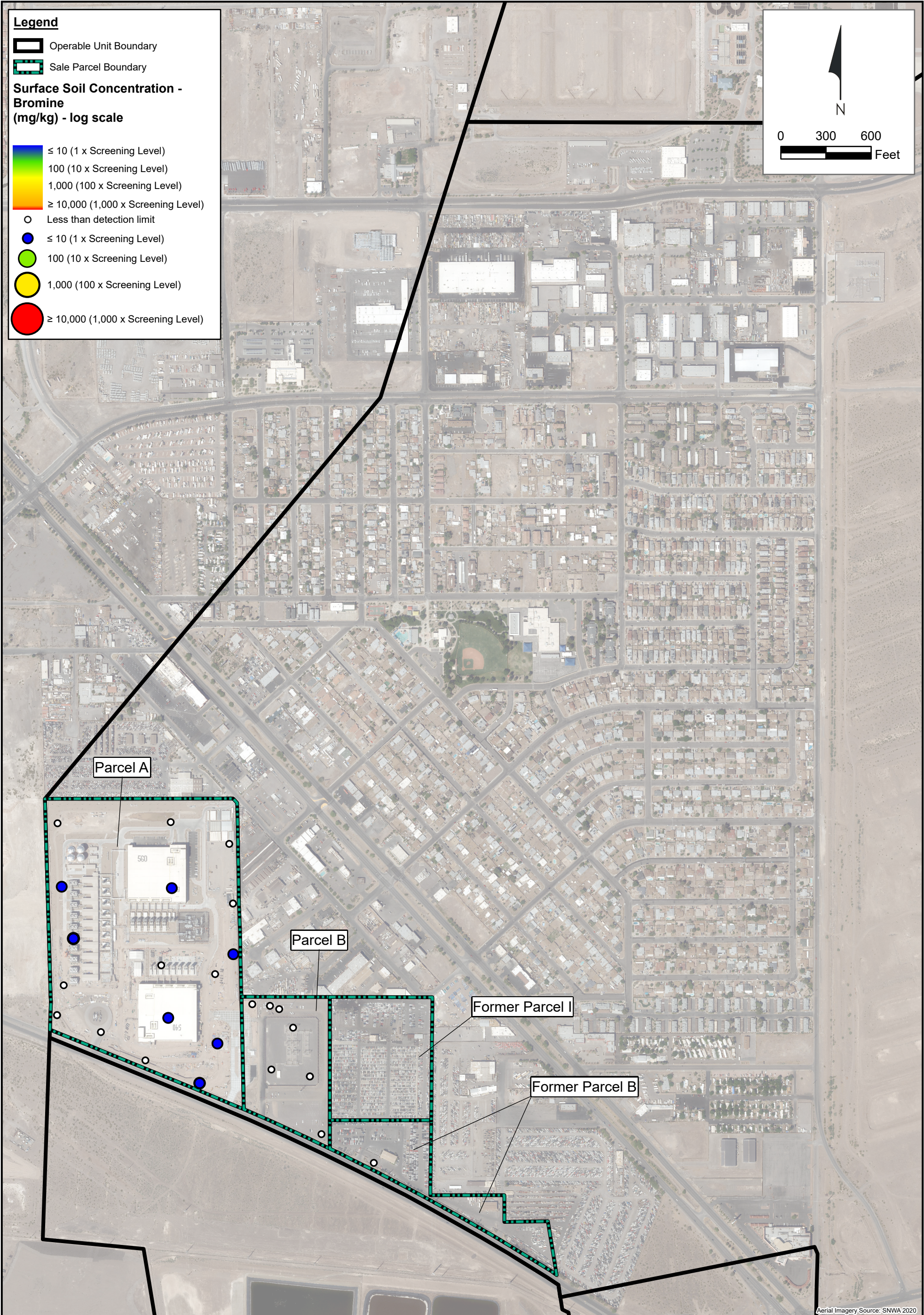
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Bromine (mg/kg) - log scale

-  ≤ 10 (1 x Screening Level)
-  100 (10 x Screening Level)
-  1,000 (100 x Screening Level)
-  ≥ 10,000 (1,000 x Screening Level)

-  Less than detection limit
-  ≤ 10 (1 x Screening Level)
-  100 (10 x Screening Level)
-  1,000 (100 x Screening Level)
-  ≥ 10,000 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_1.aprx\Figure 3-11 Bromine

Aerial Imagery Source: SNWA 2020





**Spatial Surface Soil Concentration Plot for Bromine
Using Conservative ESVs**
Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-11





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:






Last Saved By:

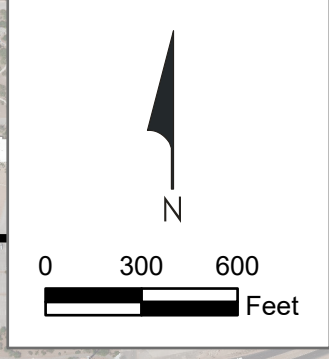
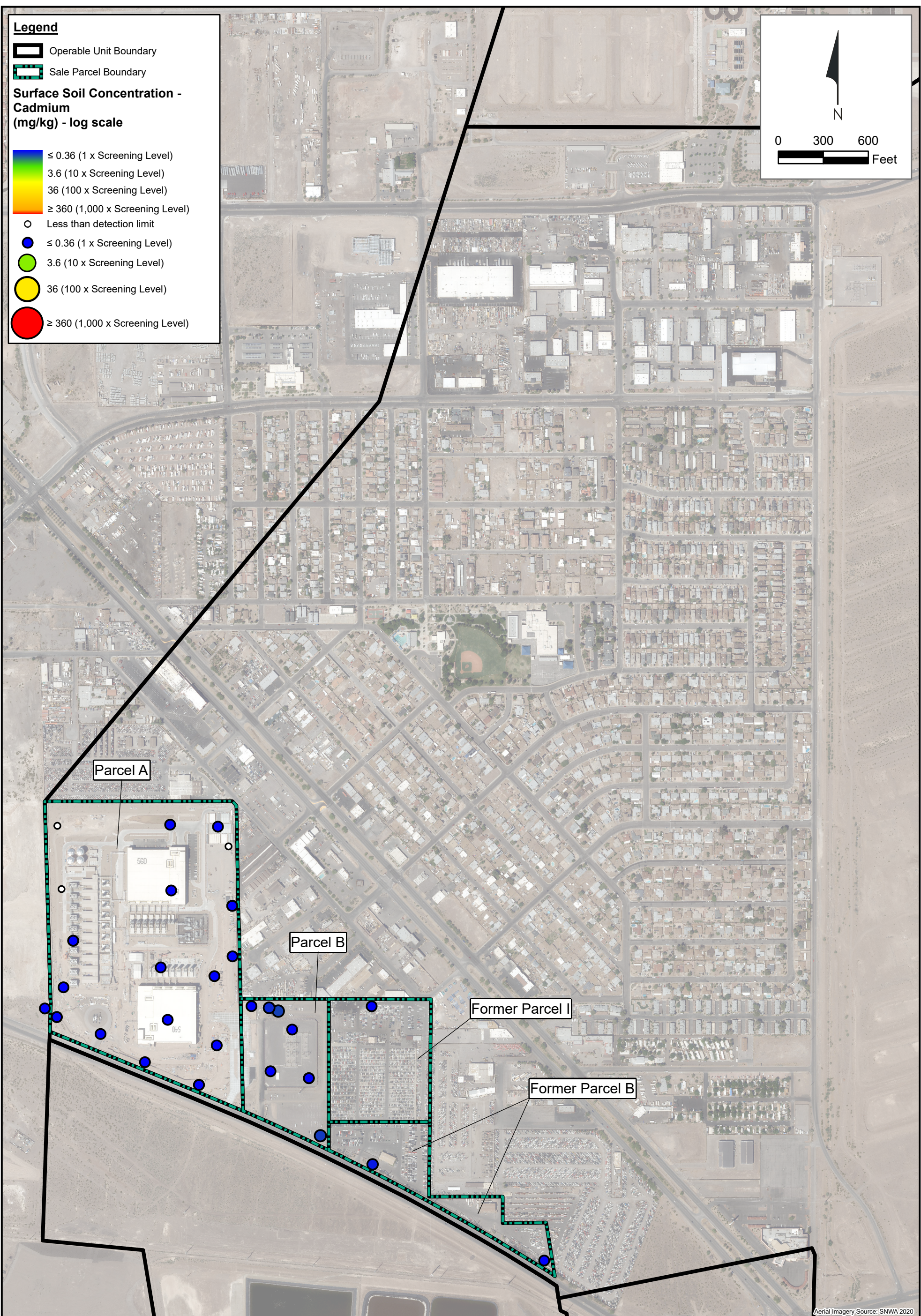
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Cadmium (mg/kg) - log scale

-  ≤ 0.36 (1 x Screening Level)
-  3.6 (10 x Screening Level)
-  36 (100 x Screening Level)
-  ≥ 360 (1,000 x Screening Level)

-  Less than detection limit
-  ≤ 0.36 (1 x Screening Level)
-  3.6 (10 x Screening Level)
-  36 (100 x Screening Level)
-  ≥ 360 (1,000 x Screening Level)

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-12 Cadmium

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Cadmium
Using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-12

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

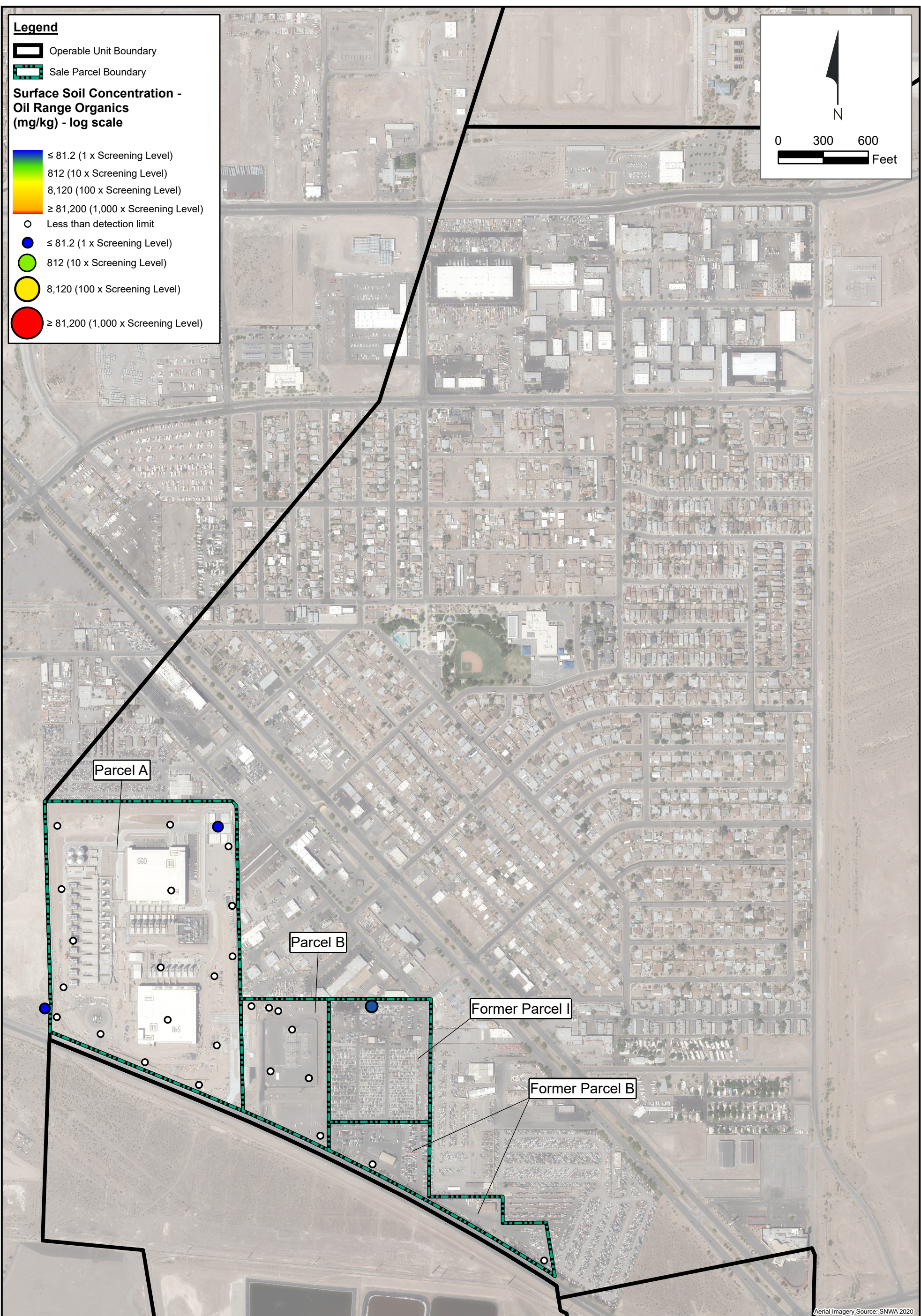
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Oil Range Organics (mg/kg) - log scale

- ≤ 81.2 (1 x Screening Level)
- 812 (10 x Screening Level)
- 8,120 (100 x Screening Level)
- ≥ 81,200 (1,000 x Screening Level)

○ Less than detection limit

- ≤ 81.2 (1 x Screening Level)
- 812 (10 x Screening Level)
- 8,120 (100 x Screening Level)
- ≥ 81,200 (1,000 x Screening Level)



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_1.aprx\Figure 3-13 Oil Range Organics

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Oil Range Organics Using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
3-13

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Refined Screening-Level Ecological Risk Assessment for OU-2, Revision 2
Nevada Environmental Response Trust Site
Henderson, Nevada

APPENDICES

APPENDIX A
USEPA ECOLOGICAL SITE VISIT CHECKLIST FOR OU-2

- A-1 USEPA Ecological Site Visit Checklist for the OU-2 Refined SLERA AREA April 2018
- A-2 USEPA Ecological Site Visit Checklist for the OU-2 Refined SLERA AREA June 2022

Refined Screening Level Ecological Risk Assessment
for Operable Unit 2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX A-1
USEPA ECOLOGICAL SITE VISIT CHECKLIST
FOR THE OU-2 REFINED SLERA AREA
April 2018

CHECK LIST FOR ECOLOGICAL ASSESSMENT/SAMPLING

Introduction

The checklist that follows provides guidance in making observations for an ecological assessment. It is not intended for limited or emergency response actions (e.g., removal of a few drums) or for purely industrial settings with no discharges. The checklist is a screening tool for preliminary site evaluation and may also be useful in planning more extensive site investigations. It must be completed as thoroughly as time allows. The results of the checklist will serve as a starting point for the collection of appropriate biological data to be used in developing a response action. It is recognized that certain questions in this checklist are not universally applicable and that site-specific conditions will influence interpretation. Therefore, a site synopsis is requested to facilitate final review of the checklist by a trained ecologist.

Checklist

The checklist has been divided into sections that correspond to data collection methods and ecosystem types. These sections are:

- I. Site Description
 - IA. Summary of Observations and Site Setting
- II. Terrestrial Habitat Checklist
 - IIA. Wooded
 - IIB. Shrub/Scrub
 - IIC. Open Field
 - IID. Miscellaneous
- III. Aquatic Habitat Checklist - Non-Flowing Systems
- IV. Aquatic Habitat Checklist - Flowing Systems
- V. Wetlands Habitat Checklist

Checklist for Ecological Assessment/Sampling

I. SITE DESCRIPTION

1. Site Name: Nevada Environmental Trust Site Operable Unit 02
Location: Henderson, Nevada
Black Mountain Industrial, Lake Mead Parkway
County: Clark City: Henderson State: Nevada

✓ 2. Latitude: _____ Longitude: _____

✓ 3. What is the approximate area of the site: _____

4. Is this the first site visit? 9 Yes 9 No If no, attach trip report of previous site visit(s), if available.

Date(s) of previous site visit(s): December 10-11, 2015

✓ 5. Please attach to the checklist USGS topographic map(s) of the site, if available.

6. Are aerial or other site photographs available? 9 Yes 9 No. If yes, please attach any available photo(s) to the site map at the conclusion of this section.

A photo log is provided as Appendix B for OU2 (eastside + westside).

A photo log for OU1 is provided as Appendix B in the Refined SLEPA Work Plan. Maps are also provided.

7. The land use of the site is:

The area surrounding the site is: _____ mile radius

Eastside
OU2

Westside
OU2

10 % Urban

30 % Urban

____ % Rural

____ % Rural

20 %

75 % Residential

20 % Residential

10 % Industrial (light heavy)

50 % Industrial (light heavy)

____ % Agricultural

____ % Agricultural

(Crops: Ø)

(Crops: _____)

5 % Recreational

____ % Recreational

(Describe: note if it is a park etc.)

(Describe: note if it is a park, etc.)

____ % Undisturbed

____ % Undisturbed

____ % Other

____ % Other

8. Has any movement of soil taken place at the site? Yes No. If yes, please identify the most likely cause of this disturbance:

Agricultural Use

Heavy Equipment

Mining

Natural Events

Erosion

Other

Please describe:

Contaminated soil has been removed from the Eastside
OU2.

Soil has not been removed from the Westside
of OU2 as the Westside had established
neighborhoods + light industry.

9. Do any potential sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State monuments, wetlands, prairie potholes?
Remember, flood plains and wetlands are not always obvious; do not answer "no" without confirming information.

Las Vegas Wash (approx. 1-3 miles from OU2), Clark County Wetlands Park (approx 5-6 miles from OU2), Henderson Bird Viewing Preserve (approx. 4-6 miles from OU2).

Please provide the source(s) of the information used to identify these sensitive areas, and indicate their general location on the site map.

Google Earth, USGS Topo maps, area maps, site maps, Clark County Multi Species Habitat Conservation Plan

10. What type of facility is located at the site?

OU1 Chemical Manufacturing Mixing Waste disposal
 Other (specify) OU2 - residential and residential development

11. What are the suspected contaminants of concern at the site? If know, what are the maximum concentration levels?

OU1 → perchlorate, metals, dioxins, PAHs, Chloroform
 OU2 → light industry chemicals only

12. Check any potential routes of off-site migration of contaminants observed at the site:

Swales Depressions Drainage ditches from OU2
 Runoff Windblown particulates Vehicular traffic
 Other (specify) _____

13. If known, what is the approximate depth to the water table? _____

14. Is the direction of surface runoff apparent from site observations? yes no. If yes, to which of the following does the surface runoff discharge? Indicate all that apply.

Surface water Groundwater Sewer Collection impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? yes no

The facility area was graded so that stormwater would be captured on-site. There are also two main designated retention basins and a drainage channel to collect stormwater.

16. Is there a waterbody anywhere on or in the vicinity of the site? If yes, also complete Section III: Aquatic Habitat Checklist – Non-Flowing Systems and/or Section IV: Aquatic Habitat Checklist – Flowing Systems.

9 yes (approx. distance _____)

no

The only waterbody on OU2 is a man made pond for the Cadence development.

17. Is there evidence of flooding? 9 yes no Wetlands and flood plains are not always obvious; do not answer "no" without confirming information. If yes, complete Section V: Wetland Habitat Checklist.

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying fauna. [Use a blank sheet if additional space is needed for text.]

- The site recon for OU1 + OU2 was conducted by a certified biologist.
- The Peterson Field Guides were used during each of the Site Recon.

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site? 9 yes no If yes, you are required to verify this information with the U.S. Fish and Wildlife Service. If species' identities are known, please list them next.

There are currently three federally listed species (threatened/ endangered) in the vicinity of the study areas. These include the desert tortoise, southwest willow flycatcher, yellow-billed cuckoo and the Yuma Clapper rail. These species may be found at Clark Co Wetlands Park, the Las Vegas Wash or the City of Henderson bird preserve but are not expected in or around the OU2 study areas due to the lack of riparian habit and highly disturbed character of OU2.

20. Record weather conditions at the time this checklist was prepared:

Date: April 23, 2018

~ 80 Temperature (EC/°F)

71° F Normal daily high temperature

7 mph NW Wind (direction/speed)

0 Precipitation (rain, snow)

10% Cloud cover

II TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

1. Are there any wooded areas at the site? 9 yes no If no, go to Section IIB: Shrub/Scrub.

2. What percentage or area of the site is wooded? (_____ % _____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.

N/A The only vegetation is occasional and spotty desert scrub. Several planted trees in

3. What is the dominant type of vegetation in the wooded area? (Circle one: Evergreen/Deciduous/Mixed) Provide a photograph, if available. Pittman Neighborhood

Dominant plant, if known: N/A

4. What is the predominant size of the trees at the site? Use diameter at breast height.

9 0 - 6 in. 9 6 - 12 in. 9 >12 in. N/A

5. Specify type of understory present, if known. Provide a photograph, if available.

Photos of the desert scrub vegetation is provided in the photo log Appendix B.

IIB. SHRUB/SCRUB

1. Is shrub/scrub vegetation present at the site? yes no If no, go to Section IIC: Open Field.

2. What percentage of the site is covered by scrub/shrub vegetation? (5 % _____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.

Scrub occurs intermittently but sparsely across the OU2 Study area. Highly infrequent in the Westside OU2 area that is residential / light industry.

3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.

Creosote bush, desert scrub, sagebrush

4. What is the approximate average height of the scrub/shrub vegetation?

0 - 2 ft. 9 2 - 5 ft. 9 > 5 ft.

5. Based on site observations, how dense is the scrub/shrub vegetation?

9 Dense

9 Patchy

9 Sparse

very sparse

IIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? 9 yes 9 no If yes, please indicate the type below:

9 Prairie/plains

9 Savannah

9 Old field

9 Other (specify) _____

2. What percentage of the site is open field? (_____ % _____ acres). Indicate the open fields on the site map.

3. What is/are the dominant plant(s)? Provide a photograph, if available.

No open fields - see Appendix B.

4. What is the approximate average height of the dominant plant? N/A

5. Describe the vegetation cover: 9 Dense 9 Sparse 9 Patchy

IID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? 9 yes 9 no If yes, identify and describe them below.

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.

See the photos provided as Appendix B in the Ouz SLERA Work Plan.

3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?

A coyote and small songbirds were observed.
There are no waterbodies so no fish were observed.
Insects were nearly nonexistent.

4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

N/A.

III AQUATIC HABITAT CHECKLIST

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type of open-water, non-flowing system is present at the site?

9 Natural (pond, lake)

9 Artificially created (lagoon, reservoir, canal, impoundment)

Pond as landscape feature at Cadence development

2. If known, what is the name(s) of the waterbody(ies) on or adjacent to the site?

Cadence Pond

3. If a waterbody is present, what are its known uses (e.g., recreation, navigation, etc.)?

Aesthetics

4. What is the approximate size of the waterbody(ies)? < 1 acre(s).

5. Is any aquatic vegetation present? 9 yes 9 no If yes, please identify the type of vegetation present if known.

9 Emergent

9 Submergent

9 Floating

The only vegetation is the landscaping around the pond

6. If known, what is the depth of the water? unknown

7. What is the general composition of the substrate? Check all that apply.

9 Bedrock

9 Sand (coarse)

9 Muck (find/black)

9 Boulder (>10 in.)

9 Silt (fine)

9 Debris

9 Cobble (2.5 - 10 in.)

9 Marl (shells)

9 Detritus

9 Gravel (0.1 - 2.5 in.)

9 Clay (slick)

9 Concrete

9 Other (specify) _____

8. What is the source of water in the waterbody?

9 River/Stream/Creek

9 Groundwater

9 Industrial discharge

9 Surface runoff

9 Other (specify) unknown

9. Is there a discharge from the site to the waterbody? 9 yes 9 no If yes, please describe this discharge and its path.

10. Is there a discharge from the waterbody? 9 yes 9 no If yes, and the information is available, identify from the list below the environment into which the waterbody discharges.

- | | | | |
|----------------------|----------|-----------|----------------|
| 9 River/Stream/Creek | 9 onsite | 9 offsite | Distance _____ |
| 9 Groundwater | 9 onsite | 9 offsite | |
| 9 Wetland | 9 onsite | 9 offsite | Distance _____ |
| 9 Impoundment | 9 onsite | 9 offsite | |

11. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected provide the measurement and the units of measure below:

- Area
- Depth (average)
- Temperature (depth of the water at which the reading was taken) _____
- pH
- Dissolved oxygen
- Salinity
- Turbidity (clear, slightly turbid, turbid, opaque) (Secchi disk depth _____)
- Other (specify)

No measurements of this man-made pond were made during the site recon.

12. Describe observed color and area of coloration.

Dark

13. Mark the open-water, non-flowing system on the site map attached to this checklist.

N/A

14. What observations, if any, were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?

No organisms were observed. No wildlife was observed as characteristics of pond + landscaped vegetation was non-native or artificially landscaped.

IV AQUATIC HABITAT CHECKLIST – FLOWING SYSTEMS

Not Applicable

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is (are) present at the site? None
- | | | |
|---|--|-------------------------------------|
| <input type="checkbox"/> River | <input type="checkbox"/> Stream | <input type="checkbox"/> Creek |
| <input type="checkbox"/> Dry wash | <input type="checkbox"/> Arroyo | <input type="checkbox"/> Brook |
| <input type="checkbox"/> Artificially created (ditch, etc.) | <input type="checkbox"/> Intermittent Stream | <input type="checkbox"/> Channeling |
| <input type="checkbox"/> Other (specify) _____ | | |
2. If known, what is the name of the waterbody? _____
3. For natural systems, are there any indicators of physical alteration (e.g. channeling, debris, etc.)? yes no If yes, please describe indicators that were observed.
4. What is the general composition of the substrate? Check all that apply.
- | | | |
|---|--|--|
| <input type="checkbox"/> Bedrock | <input type="checkbox"/> Sand (coarse) | <input type="checkbox"/> Muck (find/black) |
| <input type="checkbox"/> Boulder (>10 in.) | <input type="checkbox"/> Silt (fine) | <input type="checkbox"/> Debris |
| <input type="checkbox"/> Cobble (2.5 - 10 in.) | <input type="checkbox"/> Marl (shells) | <input type="checkbox"/> Detritus |
| <input type="checkbox"/> Gravel (0.1 - 2.5 in.) | <input type="checkbox"/> Clay (slick) | <input type="checkbox"/> Concrete |
| <input type="checkbox"/> Other (specify) _____ | | |
5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?
6. Is the system influenced by tides? yes no What information was used to make this determination?

7. Is the flow intermittent? 9 yes 9 no If yes, please note the information that was used in making this determination.

8. Is there a discharge from the site to the waterbody? 9 yes 9 no If yes, please describe the discharge and its path.

9. Is there a discharge from the waterbody? 9 yes 9 no If yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site.

10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:

- _____ Area
- _____ Depth (average)
- _____ Temperature (depth of the water at which the reading was taken) _____
- _____ pH
- _____ Dissolved oxygen
- _____ Salinity
- _____ Turbidity (clear, slightly turbid, turbid, opaque) (Secchi disk depth _____)
- _____ Other (specify)

11. Describe observed color and area of coloration.

12. Is any aquatic vegetation present? yes no If yes, please identify the type of vegetation present, if know.

Emergent

Submergent

Floating

13. Mark the flowing water system on the attached site map.

14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?

V. WETLAND HABITAT CHECKLIST

1. Based on observation and/or available information, are designated or known wetland definitely present at the site? yes no *No wetland is present at the site*

Please note the sources of observations and information used (e.g., USGS Topographic Maps, National Wetland Inventory, Federal or State Agency, etc.) To make this determination.

Site Reconnaissance, Google Earth Maps, historical documents, site/area reports

2. Based on the location of the site (e.g., along a waterbody, in a floodplain) and site conditions (e.g. standing water, dark, wet soils; mud cracks; debris line; water marks), are wetland habitats suspected? yes no *If yes, proceed with the remainder of the wetland habitat identification checklist.*

3. What type(s) of vegetation are present in the wetland? *N/A*

Submergent Emergent Scrub/Shrub Wooded
 Other (specify) _____

4. Provide a general description of the vegetation present in and around the wetland (height, color, etc.). Provide a photograph of the known or suspected wetlands, if available.

5. Is standing water present? yes no *If yes, is water: Fresh Brackish*
What is the approximate area of the water (sq. ft.) _____
Please complete questions 4, 11, 12 in Checklist III - Aquatic Habitat - Non-Flowing Systems.

6. Is there evidence of flooding at the site? What observations were noted?

Buttressing Water marks Mud cracks
 Debris line Other (describe below)

7. If known, what is the source of the water in the wetland? N/A
- 9 Stream/River/Creek/Lake/Pond 9 Groundwater
- 9 Flooding 9 Surface Runoff

8. Is there a discharge from the site to a known or suspected wetland? 9 yes 9 no If yes, please describe.

Potential impacted groundwater discharged from the OUI site to surface water at Las Vegas Wash (2.5 miles). Mitigation measures in the form of extraction + treatment system is in place.

9. Is there a discharge from the wetland? 9 yes 9 no If yes, to what waterbody is discharge released?

9 Surface Stream/River 9 Groundwater 9 Lake/Pond 9 Marine

10. If a soil sample was collected, describe the appearance of the soil in the wetland area. Circle or write in the best response. Only historical soil samples will be used
- Color (blue/grey, brown, black, mottled) in the OUI SLEEA.
- Water content (dry, wet, saturated/unsaturated) _____

11. Mark the observed area(s) on the attached site map.

Historical sampling locations are shown on Figure 2-4.

Refined Screening Level Ecological Risk Assessment
for Operable Unit 2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX A-2
USEPA ECOLOGICAL SITE VISIT CHECKLIST
FOR THE OU-2 REFINED SLERA AREA
June 2022

APPENDIX A - CHECKLIST FOR ECOLOGICAL ASSESSMENT/SAMPLING

Introduction

The checklist that follows provides guidance in making observations for an ecological assessment. It is not intended for limited or emergency response actions (e.g., removal of a few drums) or for purely industrial settings with no discharges. The checklist is a screening tool for preliminary site evaluation and may also be useful in planning more extensive site investigations. It must be completed as thoroughly as time allows. The results of the checklist will serve as a starting point for the collection of appropriate biological data to be used in developing a response action. It is recognized that certain questions in this checklist are not universally applicable and that site-specific conditions will influence interpretation. Therefore, a site synopsis is requested to facilitate final review of the checklist by a trained ecologist.

Checklist

The checklist has been divided into sections that correspond to data collection methods and ecosystem types. These sections are:

- I. Site Description
 - IA. Summary of Observations and Site Setting
- II. Terrestrial Habitat Checklist
 - IIA. Wooded
 - IIB. Shrub/Scrub
 - IIC. Open Field
 - IID. Miscellaneous
- III. Aquatic Habitat Checklist -- Non-Flowing Systems
- IV. Aquatic Habitat Checklist -- Flowing Systems
- V. Wetlands Habitat Checklist

Checklist for Ecological Assessment/Sampling

I. SITE DESCRIPTION

1. Site Name: Nevada Environmental Response Trust Operable Unit 2

Location: Henderson, Nevada

County: Clark City: Henderson State: NV

2. Latitude: _____ Longitude: _____

3. What is the approximate area of the site? 662 acres

4. Is this the first site visit? yes no If no, attach trip report of previous site visit(s), if available.

Date(s) of previous site visit(s): April 2013 provided in Appendices of the OU-2 Refined SLCRA Report

5. Please attach to the checklist USGS topographic map(s) of the site, if available. Maps and figures are provided in the OU-2 Refined SLCRA Report

6. Are aerial or other site photographs available? yes no If yes, please attach any available photo(s) to the site map at the conclusion of this section.

Maps and figures are provided in the OU-2 Refined SLCRA Report.
Photo Log is also available as Appendix B

7. The land use on the site is:

The area surrounding the site is:

5 mile radius

15 % Urban

30 % Urban

___ % Rural

___ % Rural

75 % Residential

30 % Residential

10 % Industrial (light heavy)

40 % Industrial (light heavy)

___ % Agricultural

___ % Agricultural

(Crops: Ø)

(Crops: _____)

5 % Recreational

___ % Recreational

(Describe; note if it is a park, etc.)

(Describe; note if it is a park, etc.)

___ % Undisturbed

___ % Undisturbed

___ % Other

___ % Other

8. Has any movement of soil taken place at the site? yes no. If yes, please identify the most likely cause of this disturbance:

___ Agricultural Use

Heavy Equipment

___ Mining

___ Natural Events

___ Erosion

___ Other

Please describe: *Soil removal has occurred in many areas of the OU-2 Refined SLEHA Study Area particularly in Parcels A + B where soil was removed, replaced or covered in structures or pavement.*

9. Do any potentially sensitive environmental areas exist adjacent to or in proximity to the site, e.g., Federal and State parks, National and State monuments, wetlands, prairie potholes? Remember, flood plains and wetlands are not always obvious; do not answer "no" without confirming information.

The Las Vegas Wash, Clark County Wetland Park and the City of Henderson Bird Viewing Ponds are all within approximately 5 miles of the OU-2 Refined SARA Area but none are on-site.

Please provide the source(s) of information used to identify these sensitive areas, and indicate their general location on the site map.

Google Earth, Topo maps (USGS), area maps. Clark County Multi-Species Habitat Conservation plan.

10. What type of facility is located at the site? OU-2 is light industry + residential

OU-1

- Chemical
- Manufacturing
- Mixing
- Waste disposal

Other (specify) OU-1 is a chemical manufacturing site that may contribute chemicals to soils within OU-2

11. What are the suspected contaminants of concern at the site? If known, what are the maximum concentration levels?

Perchlorate, chlorate, chloroform, dioxins/furans, PAHs at OU-1. Fugitive dust from OU-1 may contribute to these constituents in soils within OU-2.

12. Check any potential routes of off-site migration of contaminants observed at the site:

- Swales
- Depressions
- Drainage ditches

- Runoff
- Windblown particulates
- Vehicular traffic

Other (specify) fugitive dust and soil blown to OU-2

13. If known, what is the approximate depth to the water table? 8-40 feet bgs

14. Is the direction of surface runoff apparent from site observations? yes no If yes, to which of the following does the surface runoff discharge? Indicate all that apply.

- Surface water
- Groundwater
- Sewer
- Collection impoundment

15. Is there a navigable waterbody or tributary to a navigable waterbody? yes no

16. Is there a waterbody anywhere on or in the vicinity of the site? If yes, also complete Section III: Aquatic Habitat Checklist -- Non-Flowing Systems and/or Section IV: Aquatic Habitat Checklist -- Flowing Systems.

yes (approx. distance _____) no

17. Is there evidence of flooding? yes no *Wetlands and flood plains are not always obvious; do not answer "no" without confirming information.* If yes, complete Section V: Wetland Habitat Checklist.

18. If a field guide was used to aid any of the identifications, please provide a reference. Also, estimate the time spent identifying fauna. [Use a blank sheet if additional space is needed for text.]

- A site recon was conducted in December 2015, April 2018 and June 2022 by a certified senior biologist.
- The Peterson Field Guides were used during each of the site recon as well as the Clark County Multi-Species Habitat Conservation Plan.

19. Are any threatened and/or endangered species (plant or animal) known to inhabit the area of the site? yes no *If yes, you are required to verify this information with the U.S. Fish and Wildlife Service. If species' identities are known, please list them next.*

There are three Federally Listed species in the vicinity of the OU-1 and OU-2 Refined SLEPA Study Areas. These include the desert tortoise, Southwest willow flycatcher, yellow-billed cuckoo and the Yuma Clapper rail. These species would not be found within the OU-2 Refined SLEPA Study Area. They may be found closer to or in the Las Vegas Wash.

20. Record weather conditions at the time this checklist was prepared:

DATE: June 2022

85 Temperature (°C/F)

80 Normal daily high temperature

10 Wind (direction/speed)

0 Precipitation (rain, snow)

20% Cloud cover

IA. SUMMARY OF OBSERVATIONS AND SITE SETTING

The majority of the OU-2 Refined SLERA Study Area is residential or light industry. There are also parcels of fallow land that consists of dry, scrub habitat. No natural waterbodies are present. Much of the landscaped ^{area is} where the area was developed. Parcels A + B are now mostly covered in pavement and structures or soil has been covered or removed for landscaped vegetation.

Completed by Linda Martell PhD Affiliation Ramboll

Additional Preparers Jonathan Sarich

Site Manager Kim Kuwabara

Date 7/2022

II. TERRESTRIAL HABITAT CHECKLIST

IIA. WOODED

- 1. Are there any wooded areas at the site? yes no If no, go to Section IIB: Shrub/Scrub.
- 2. What percentage or area of the site is wooded? (____% ____ acres). Indicate the wooded area on the site map which is attached to a copy of this checklist. Please identify what information was used to determine the wooded area of the site.
- 3. What is the dominant type of vegetation in the wooded area? (Circle one: Evergreen/Deciduous/ Mixed) Provide a photograph, if available. *Photo log is provided w Appendix B*

Dominant plant, if known: *scrub, mesquite, creosote, yucca, Mojave desert scrub, Sagebrush*

- 4. What is the predominant size of the ^{vegetation} trees at the site? Use diameter at breast height.
 - 0-6 in.
 - 6-12 in.
 - > 12 in.

- 5. Specify type of understory present, if known. Provide a photograph, if available.

Desert scrub, Mojave desert scrub.

IIB. SHRUB/SCRUB

- 1. Is shrub/scrub vegetation present at the site? yes no If no, go to Section IIC: Open Field.
- 2. What percentage of the site is covered by scrub/shrub vegetation? (*20* % ____ acres). Indicate the areas of shrub/scrub on the site map. Please identify what information was used to determine this area.

See site photos provided in Appendix B.

- 3. What is the dominant type of scrub/shrub vegetation, if known? Provide a photograph, if available.

Creosote, sagebrush, yucca, Mojave desert scrub.

- 4. What is the approximate average height of the scrub/shrub vegetation?
 - 0-2 ft.
 - 2-5 ft.
 - > 5 ft.

5. Based on site observations, how dense is the scrub/shrub vegetation?

- Dense
- Patchy
- Sparse

IIIC. OPEN FIELD

1. Are there open (bare, barren) field areas present at the site? yes no If yes, please indicate the type below:

- Prairie/plains
- Savannah
- Old field
- Other (specify) _____

2. What percentage of the site is open field? (____% ____ acres). Indicate the open fields on the site map.

3. What is/are the dominant plant(s)? Provide a photograph, if available.

See photo log provided as Appendix B

4. What is the approximate average height of the dominant plant? _____

5. Describe the vegetation cover: Dense Sparse Patchy

IIID. MISCELLANEOUS

1. Are other types of terrestrial habitats present at the site, other than woods, scrub/shrub, and open field? yes no
If yes, identify and describe them below.

2. Describe the terrestrial miscellaneous habitat(s) and identify these area(s) on the site map.

See photo log provided as Appendix B.

- 3. What observations, if any, were made at the site regarding the presence and/or absence of insects, fish, birds, mammals, etc.?

No large wildlife was observed during the June 2022 site recon. Insects are primarily crickets, beetles, centipedes / millipedes. An occasional jackrabbit was observed.

- 4. Review the questions in Section I to determine if any additional habitat checklists should be completed for this site.

N/A.

III. AQUATIC HABITAT CHECKLIST -- NON-FLOWING SYSTEMS

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

There are not wetlands or natural waterbodies within the OLI-2 Refined SHERA Study Area.

- 1. What type of open-water, non-flowing system is present at the site?
 - Natural (pond, lake)
 - Artificially created (lagoon, reservoir, canal, impoundment)

- 2. If known, what is the name(s) of the waterbody(ies) on or adjacent to the site? *N/A*

- 3. If a waterbody is present, what are its known uses (e.g.: recreation, navigation, etc.)?

- 4. What is the approximate size of the waterbody(ies)? _____ acre(s).

- 5. Is any aquatic vegetation present? yes no If yes, please identify the type of vegetation present if known.
 - Emergent Submergent Floating

- 6. If known, what is the depth of the water? _____

- 7. What is the general composition of the substrate? Check all that apply.

- Bedrock Sand (coarse) Muck (fine/black)
- Boulder (>10 in.) Silt (fine) Debris
- Cobble (2.5-10 in.) Marl (shells) Detritus
- Gravel (0.1-2.5 in.) Clay (slick)
- Concrete
- Other (specify) _____

- 8. What is the source of water in the waterbody?

- River/Stream/Creek Groundwater Other (specify) _____
- Industrial discharge Surface runoff

9. Is there a discharge from the site to the waterbody? yes no If yes, please describe this discharge and its path.

10. Is there a discharge from the waterbody? yes no If yes, and the information is available, identify from the list below the environment into which the waterbody discharges.

- River/Stream/Creek onsite offsite Distance _____
- Groundwater onsite offsite
- Wetland onsite offsite Distance _____
- Impoundment onsite offsite

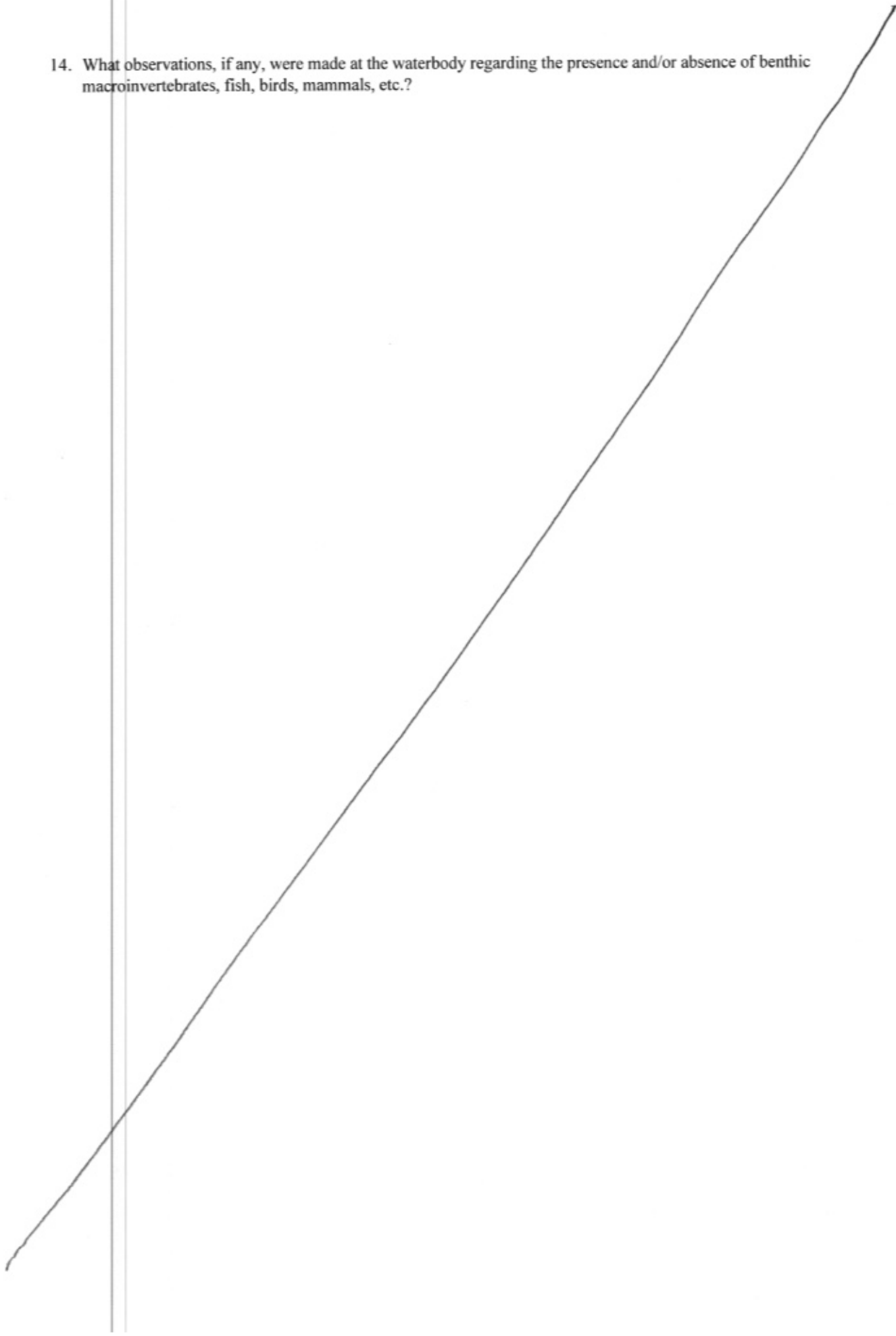
11. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected provide the measurement and the units of measure below:

- _____ Area
- _____ Depth (average)
- _____ Temperature (depth of the water at which the reading was taken) _____
- _____ pH
- _____ Dissolved oxygen
- _____ Salinity
- _____ Turbidity (clear, slightly turbid, turbid, opaque) (Secchi disk depth _____)
- _____ Other (specify)

12. Describe observed color and area of coloration.

13. Mark the open-water, non-flowing system on the site map attached to this checklist.

14. What observations, if any, were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?



IV. AQUATIC HABITAT CHECKLIST -- FLOWING SYSTEMS

Note: Aquatic systems are often associated with wetland habitats. Please refer to Section V, Wetland Habitat Checklist.

1. What type(s) of flowing water system(s) is (are) present at the site?

- River
- Stream
- Creek
- Dry wash
- Arroyo
- Brook
- Artificially created (ditch, etc.)
- Intermittent Stream
- Channeling
- Other (specify) _____

2. If known, what is the name of the waterbody? _____

3. For natural systems, are there any indicators of physical alteration (e.g., channeling, debris, etc.)?
 yes no If yes, please describe indicators that were observed.

4. What is the general composition of the substrate? Check all that apply.

- Bedrock
- Sand (coarse)
- Muck (fine/black)
- Boulder (>10 in.)
- Silt (fine)
- Debris
- Cobble (2.5-10 in.)
- Marl (shells)
- Detritus
- Gravel (0.1-2.5 in.)
- Clay (slick)
- Concrete
- Other (specify) _____

5. What is the condition of the bank (e.g., height, slope, extent of vegetative cover)?

6. Is the system influenced by tides? yes no What information was used to make this determination?

7. Is the flow intermittent? yes no If yes, please note the information that was used in making this determination.

8. Is there a discharge from the site to the waterbody? yes no If yes, please describe the discharge and its path.

9. Is there a discharge from the waterbody? yes no If yes, and the information is available, please identify what the waterbody discharges to and whether the discharge is on site or off site.

10. Identify any field measurements and observations of water quality that were made. For those parameters for which data were collected, provide the measurement and the units of measure in the appropriate space below:

- _____ Width (ft.)
- _____ Depth (ft.)
- _____ Velocity (specify units): _____
- _____ Temperature (depth of the water at which the reading was taken _____)
- _____ pH
- _____ Dissolved oxygen
- _____ Salinity
- _____ Turbidity (clear, slightly turbid, turbid, opaque)
(Secchi disk depth _____)
- _____ Other (specify) _____

11. Describe observed color and area of coloration.

12. Is any aquatic vegetation present? yes no If yes, please identify the type of vegetation present, if known.

Emergent

Submergent

Floating

13. Mark the flowing water system on the attached site map.

14. What observations were made at the waterbody regarding the presence and/or absence of benthic macroinvertebrates, fish, birds, mammals, etc.?

V. WETLAND HABITAT CHECKLIST

- 1. Based on observations and/or available information, are designated or known wetlands definitely present at the site?
 yes no

Please note the sources of observations and information used (e.g., USGS Topographic Maps, National Wetland Inventory, Federal or State Agency, etc.) to make this determination.

- 2. Based on the location of the site (e.g., along a waterbody, in a floodplain) and site conditions (e.g., standing water; dark, wet soils; mud cracks; debris line; water marks), are wetland habitats suspected?
 yes no If yes, proceed with the remainder of the wetland habitat identification checklist.

- 3. What type(s) of vegetation are present in the wetland?

- Submergent Emergent
- Scrub/Shrub Wooded
- Other (specify) _____

- 4. Provide a general description of the vegetation present in and around the wetland (height, color, etc.). Provide a photograph of the known or suspected wetlands, if available.

- 5. Is standing water present? yes no If yes, is this water: Fresh Brackish
 What is the approximate area of the water (sq. ft.)? _____

Please complete questions 4, 11, 12 in Checklist III - Aquatic Habitat -- Non-Flowing Systems.

- 6. Is there evidence of flooding at the site? What observations were noted?

- Buttressing Water marks Mud cracks
- Debris line Other (describe below)

7. If known, what is the source of the water in the wetland?

- Stream/River/Creek/Lake/Pond
- Groundwater
- Flooding
- Surface Runoff

8. Is there a discharge from the site to a known or suspected wetland? yes no If yes, please describe.

9. Is there a discharge from the wetland? yes no. If yes, to what waterbody is discharge released?

- Surface Stream/River
- Groundwater
- Lake/Pond
- Marine

10. If a soil sample was collected, describe the appearance of the soil in the wetland area. Circle or write in the best response.

Color (blue/gray, brown, black, mottled) _____

Water content (dry, wet, saturated/unsaturated) _____

11. Mark the observed wetland area(s) on the attached site map.

APPENDIX B

APRIL 2018 AND JUNE 2022

SITE RECONNAISSANCE PHOTO LOG FOR OU-2

- B-1 Eastside Sub-Area Photo Log
- B-2 NERT Off-Site Study Area Photo Log

APPENDIX B-1
EASTSIDE SUB-AREA PHOTO LOG



Photo 1a: Prelude to the Park Apartments. Entrance is just off Lake Mead Pkwy (south end of OU-2) at the corner of Grand Cadence Dr. and Saguaro St (April 2018).



Photo 1b: Prelude to the Park Apartments. Entrance is just off Lake Mead Pkwy (south end of OU-2) at the corner of Grand Cadence Dr. and Saguaro Street (June 2022).



Photo 2a: Pinecrest Academy (Cadence Campus) 225 Grande Cadence Dr. across from the south end of OU-2 (April 2018).



Photo 2b: Pinecrest Academy (Cadence Campus) 225 Grande Cadence Dr. across from the south end of OU-2 (June 2022).



Photo 3a: Excavated areas near former BMI ponds (April 2018).



Photo 3b: Apartments being constructed on the former BMI pond areas (June 2022).



Photo 4a: Excavated areas near former BMI ponds (April 2018).



Photo 4b: Apartments being constructed on the former BMI pond areas (June 2022).



Photo 5a: Eastside Sub-Area looking south showing soil removal areas (April 2018).



Photo 5b: Former soil removal areas in Eastside Sub-Area looking south (June 2022).



Photo 6a: Eastside Sub-Area looking south (April 2018).



Photo 6b: Former soil removal areas in Eastside Sub-Area looking south (June 2022).



Photo 7a: Eastside Sub-Area – Future Cadence Master-Planned Community (April 2018).



Photo 7b: Eastside Sub-Area – Cadence Master-Planned Community (June 2022).



Photo 8a: Eastside Sub-Area – Future Cadence Master-Planned Community (April 2018).



Photo 8b: Eastside Sub-Area – Cadence Master-Planned Community (June 2022).



Photo 9a: Eastside Sub-Area – Future Cadence Master-Planned Community (April 2018).



Photo 9b: Eastside Sub-Area – Future Cadence Master-Planned Community (June 2022).



Photo 10a: Sections of Eastside Sub-Area slated for the Master-Planned Community (April 2018).



Photo 10b: Sections of Eastside Sub-Area slated for the Master-Planned Community (June 2022).



Photo 11a: Sections of Eastside Sub-Area slated for the Master-Planned Community (April 2018).



Photo 11b: Sections of Eastside Sub-Area slated for the Master-Planned Community (June 2022).



Photo 12a: Sections of Eastside Sub-Area slated for the Master-Planned Community (April 2018).



Photo 12b: Sections of Eastside Sub-Area slated for the Master-Planned Community (June 2022).



Photo 13a: Sections of Eastside Sub-Area slated for the Master-Planned Community (April 2018).



Photo 13b: Sections of Eastside Sub-Area slated for the Master-Planned Community (June 2022).

APPENDIX B-2
NERT OFF-SITE STUDY AREA
PHOTO LOG



Photo 1a: Illustration of residential neighborhood in the NERT Off-Site Study Area in OU-2 (April 2018).



Photo 1b: Illustration of residential neighborhood in the NERT Off-Site Study Area in OU-2 (June 2022).



Photo 2a: Illustration of residential neighborhood in the NERT Off-Site Study Area in OU-2 (April 2018).



Photo 2b: Illustration of residential neighborhood in the NERT Off-Site Study Area in OU-2 (June 2022).



Photo 3a: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (April 2018).



Photo 3b: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (June 2022).



Photo 4a: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (April 2018).



Photo 4b: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (June 2022).



Photo 5a: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (April 2018).



Photo 5b: Illustration of residential neighborhood in the OU-2 Refined SLERA Area (June 2022).

APPENDIX C

ANALYTICAL DATA USED IN THE OU-2 REFINED SLERA

- C-1 ENSR and Kerr-McGee Shallow Soil Data used in the OU-2 Refined SLERA
- C-2 BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA
- C-3 Calculation of Dioxin/Furan TEQs, Polycyclic Aromatic Hydrocarbon Mixture Totals and DDx Totals for use in the SLERA

Refined Screening Level Ecological Risk Assessment
for Operable Unit 2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX C-1
ENSR AND KERR-MCGEE SHALLOW SOIL DATA USED IN THE
OU-2 REFINED SLERA

Table C-1 ENSR and Kerr-McGee Shallow Soil Data used in the OU-2 Refined SLERA

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
Dioxins/Furans	2,3,7,8-Tetrachlorodibenzo-p-dioxin	1746-01-6	ng/kg	--	--	4.934	--	--
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	40321-76-4	ng/kg	--	--	16.513	--	--
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	39227-28-6	ng/kg	--	--	8.369	--	--
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	57653-85-7	ng/kg	--	--	28.654	--	--
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	19408-74-3	ng/kg	--	--	31.372	--	--
	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	35822-46-9	ng/kg	--	--	101.111	--	--
	1,2,3,4,6,7,8,9-Octachlorodibenzo-p-dioxin	3268-87-9	ng/kg	--	--	88.725 J	--	--
	2,3,7,8-Tetrachlorodibenzofuran	51207-31-9	ng/kg	--	--	145.395 J	--	--
	1,2,3,7,8-Pentachlorodibenzofuran	57117-41-6	ng/kg	--	--	216.329 J	--	--
	2,3,4,7,8-Pentachlorodibenzofuran	57117-31-4	ng/kg	--	--	139.916	--	--
	1,2,3,4,7,8-Hexachlorodibenzofuran	70648-26-9	ng/kg	--	--	441.621 J	--	--
	1,2,3,6,7,8-Hexachlorodibenzofuran	57117-44-9	ng/kg	--	--	408.013	--	--
	1,2,3,7,8,9-Hexachlorodibenzofuran	72918-21-9	ng/kg	--	--	64.621	--	--
	2,3,4,6,7,8-Hexachlorodibenzofuran	60851-34-5	ng/kg	--	--	157.601 J	--	--
	1,2,3,4,6,7,8-Heptachlorodibenzofuran	67562-39-4	ng/kg	--	--	1,181.817 J	--	--
1,2,3,4,7,8,9-Heptachlorodibenzofuran	55673-89-7	ng/kg	--	--	544.7 J	--	--	
1,2,3,4,6,7,8,9-Octachlorodibenzofuran	39001-02-0	ng/kg	--	--	1,726.841 J	--	--	
General Chemistry	Alkalinity	ALK	mg/kg	--	343	1,390	330 J+	1,100
	Alkalinity (as CaCO ₃)	ALKA	mg/kg	--	<28.5	205	92.2 J+	53.0
	Ammonia (as N)	7664-41-7 0	mg/kg	--	<0.63	<0.62	0.59 UJ	<0.58
	Bromide	24959-67-9	mg/kg	--	<0.58	<0.56	<0.54	<0.52
	Chlorate	14866-68-3	mg/kg	--	5.1 J-	1.1 UJ	1.1 UJ	6.3 J-
	Chloride	16887-00-6	mg/kg	--	467	7.3	14.2 J	531
	Cyanide (total)	57-12-5	mg/kg	--	<0.14	<0.14	--	<0.13
	Hydrogen carbonate	71-52-3	mg/kg	--	320	1,180	238 J+	1,050
	Nitrate (as N)	14797-55-8_N	mg/kg	--	19.4	0.83 J	0.53 J	2.9 J
	Nitrite	14797-65-0	mg/kg	--	3.3	0.10 J	0.27	4.2 J-
	Organic Halides (total)	TOH	mg/kg	180 J	--	--	--	--
	Perchlorate	14797-73-0	µg/kg	--	3,840	152	21,800	918
	ortho-Phosphate	11-36-9	mg/kg	--	1.7 J	<1.1	<1.1	<1.0
	Sulfate	14808-79-8	mg/kg	--	159	15.2	183	22.5
	Total Organic Carbon	TOC	mg/kg	335	2,700	14,500	3,700 J-	5,200
Metals	Aluminum	7429-90-5	mg/kg	--	6,630 J	5,770 J	8,130	7,210 J
	Antimony	7440-36-0	mg/kg	--	0.15 J-	0.15 J-	0.21 J-	0.15 J-
	Arsenic	7440-38-2	mg/kg	--	2.1	2.9	3.1	2.3
	Barium	7440-39-3	mg/kg	--	148 J	146 J	186 J-	162 J
	Beryllium	7440-41-7	mg/kg	--	0.45	0.40	0.49 J-	0.45
	Boron	7440-42-8	mg/kg	--	4.0 J	4.0 J	11.1 J	7.3 J
	Cadmium	7440-43-9	mg/kg	--	0.086	0.13	0.23	0.092
	Calcium	7440-70-2	mg/kg	--	8,460 J	33,800 J	19,900	18,600 J
	Chromium (total)	7440-47-3	mg/kg	--	6.8 J-	5.7 J-	10.9 J-	7.9 J-
	Chromium VI	18540-29-9	mg/kg	--	<0.12	0.15 J	0.22	<0.10
	Cobalt	7440-48-4	mg/kg	--	5.7 J-	5.3 J-	6.1 J-	5.0 J-
	Copper	7440-50-8	mg/kg	--	11.8 J	12.1 J	13.1 J	10.1 J
	Iron	7439-89-6	mg/kg	--	10,900 J	7,850 J	13,100	9,850 J
	Lead	7439-92-1	mg/kg	--	7.9	9.8	12.6	8.8

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
Metals	Magnesium	7439-95-4	mg/kg	--	5,050 J-	7,220 J-	7,110 J-	6,880 J-
	Manganese	7439-96-5	mg/kg	--	300 J+	447 J+	339	272 J+
	Mercury	7439-97-6	mg/kg	--	<0.0077	<0.0075	<0.0072	0.010 J
	Molybdenum	7439-98-7	mg/kg	--	0.43 J	0.63	1.1	0.43 J
	Nickel	7440-02-0	mg/kg	--	12.3 J	10.1 J	12.5 J-	12.3 J
	Platinum	7440-06-4	mg/kg	--	<0.012	<0.011	0.016 J	0.012 J
	Potassium	7440-09-7	mg/kg	--	2,560 J	2,430 J	2,900 J-	2,940 J
	Selenium	7782-49-2	mg/kg	--	<0.12	<0.12	0.12 J	<0.11
	Silver	7440-22-4	mg/kg	--	0.11 J	0.10 J	0.13 J	0.12 J
	Sodium	7440-23-5	mg/kg	--	440 J-	202 J	1,000 J-	429 J-
	Strontium	7440-24-6	mg/kg	--	127 J	187 J	134 J-	118 J
	Thallium	7440-28-0	mg/kg	--	0.084 J	0.20 J	0.20 J	0.14 J
	Tin	7440-31-5	mg/kg	--	0.53	0.50	0.68	0.46
	Titanium	7440-32-6	mg/kg	--	394 J	342 J	670	350 J
	Tungsten	7440-33-7	mg/kg	--	0.30 J-	0.98 J-	0.38 J	0.39 J-
	Uranium (total)	U-Total	mg/kg	--	0.74	0.87	0.88	0.85
	Vanadium	7440-62-2	mg/kg	--	21.5 J-	18.7 J-	37.1 J-	18.3 J-
	Zinc	7440-66-6	mg/kg	--	26.8 J-	26.7 J-	31.6 J-	26.4 J-
	OCPs	Aldrin	309-00-2	mg/kg	--	<0.0020	<0.0019	<0.0018
alpha-BHC		319-84-6	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
beta-BHC		319-85-7	mg/kg	--	<0.0020	0.0044 J+	0.0041 J	<0.0018
delta-BHC		319-86-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
gamma-BHC		58-89-9	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Chlordane (total)		57-74-9	mg/kg	--	<0.012	<0.011	<0.011	<0.010
alpha-Chlordane		5103-71-9	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
gamma-Chlordane		5103-74-2	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
2,4-D		94-75-7	µg/kg	<10	--	--	--	--
2,4-DB		94-82-6	µg/kg	60	--	--	--	--
4,4'-DDD		72-54-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
4,4'-DDE		72-55-9	mg/kg	--	<0.0020	0.015 J+	<0.0018	<0.0018
4,4'-DDT		50-29-3	mg/kg	--	<0.0020	0.010 J+	0.0018 UJ	<0.0018
Dalapon		75-99-0	µg/kg	<26	--	--	--	--
Dicamba		1918-00-9	µg/kg	2 J	--	--	--	--
Dichloroprop		120-36-5	µg/kg	<10	--	--	--	--
Dieldrin		60-57-1	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Dinoseb		88-85-7	µg/kg	<5.4	--	--	--	--
Endosulfan I		959-98-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Endosulfan II		33213-65-9	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Endosulfan sulfate		1031-07-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Endrin		72-20-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Endrin aldehyde		7421-93-4	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Endrin ketone		53494-70-5	mg/kg	--	<0.0020	<0.0019	0.0018 UJ	<0.0018
Heptachlor		76-44-8	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
Heptachlor epoxide		1024-57-3	mg/kg	--	<0.0020	<0.0019	<0.0018	<0.0018
MCPA (2-Methyl-4-chlorophenoxy acetic acid)		94-74-6	µg/kg	1,200,000	--	--	--	--
Mecoprop		7085-19-0	µg/kg	<5,400.00	--	--	--	--

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
OCPS	Methoxychlor	72-43-5	mg/kg	--	<0.0038	<0.0037	0.0036 UJ	<0.0035
	Pentachlorophenol	87-86-5	µg/kg	<1	--	--	--	--
	2,4,5-T	93-76-5	µg/kg	<1	--	--	--	--
	2,4,5-TP	93-72-1	µg/kg	<1	--	--	--	--
OPPS	Toxaphene	8001-35-2	mg/kg	--	<0.058	<0.056	<0.054	<0.052
	Chlorpyrifos	2921-88-2	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021
	Coumaphos	56-72-4	mg/kg	--	<0.015	<0.015	0.014 UJ	<0.014
	Dasanit	115-90-2	mg/kg	--	<0.015	<0.015	0.014 UJ	<0.014
	Demeton-O	298-03-3	mg/kg	--	0.045 UJ	0.044 UJ	0.042 UJ	0.041 UJ
	Demeton-S	126-75-0	mg/kg	--	0.017 UJ	0.017 UJ	0.016 UJ	0.016 UJ
	Diazinon	333-41-5	mg/kg	--	0.025 UJ	0.025 UJ	0.024 UJ	0.023 UJ
	Dichlorovos	62-73-7	mg/kg	--	<0.027	<0.026	0.025 UJ	<0.024
	Dimethoate	60-51-5	mg/kg	--	<0.025	<0.025	0.024 UJ	<0.023
	Disulfoton	298-04-4	mg/kg	--	<0.055	<0.054	0.052 UJ	<0.050
	EPN	2104-64-5	mg/kg	--	0.015 UJ	0.015 UJ	0.014 UJ	0.014 UJ
	Ethoprop	13194-48-4	mg/kg	--	<0.017	<0.017	0.016 UJ	<0.016
	Famphur	52-85-7	mg/kg	--	<0.015	<0.015	0.014 UJ	<0.014
	Fenthion	55-38-9	mg/kg	--	<0.038	<0.037	0.036 UJ	<0.035
	Guthion	86-50-0	mg/kg	--	<0.015	<0.015	0.014 UJ	<0.014
	Malathion	121-75-5	mg/kg	--	<0.017	<0.017	0.016 UJ	<0.016
	Merphos	150-50-5	mg/kg	--	<0.035	<0.034	0.032 UJ	<0.031
	Methyl parathion	298-00-0	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021
	Mevinphos	7786-34-7	mg/kg	--	<0.017	<0.017	0.016 UJ	<0.016
	Naled	300-76-5	mg/kg	--	0.038 UJ	0.037 UJ	0.036 UJ	0.035 UJ
	Parathion	56-38-2	mg/kg	--	<0.021	<0.020	0.019 UJ	<0.019
	Phorate	298-02-2	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021
	Prothiophos	34643-46-4	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021
	Ronnel	299-84-3	mg/kg	--	0.021 UJ	0.020 UJ	0.019 UJ	0.019 UJ
	Stirophos	22248-79-9	mg/kg	--	<0.017	<0.017	0.016 UJ	<0.016
	Sulfotepp	3689-24-5	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021
	Sulprofos	35400-43-2	mg/kg	--	<0.015	<0.015	0.014 UJ	<0.014
	Thionazin	297-97-2	mg/kg	--	<0.021	<0.020	0.019 UJ	<0.019
Trichloronate	327-98-0	mg/kg	--	<0.023	<0.023	0.022 UJ	<0.021	
PAHs	Acenaphthene	83-32-9	mg/kg	--	--	--	<0.0071	--
	Acenaphthylene	208-96-8	mg/kg	--	--	--	<0.0071	--
	Anthracene	120-12-7	mg/kg	--	--	--	<0.0071	--
	Benzo(a)anthracene	56-55-3	mg/kg	--	--	--	<0.0071	--
	Benzo(a)pyrene	50-32-8	mg/kg	--	--	--	<0.0071	--
	Benzo(b)fluoranthene	205-99-2	mg/kg	--	--	--	<0.0071	--
	Benzo(g,h,i)perylene	191-24-2	mg/kg	--	--	--	<0.0071	--
	Benzo(k)fluoranthene	207-08-9	mg/kg	--	--	--	<0.0071	--
	Chrysene	218-01-9	mg/kg	--	--	--	<0.0071	--
	Dibenz(a,h)anthracene	53-70-3	mg/kg	--	--	--	<0.0071	--
	Fluoranthene	206-44-0	mg/kg	--	--	--	<0.0071	--
	Fluorene	86-73-7	mg/kg	--	--	--	<0.0071	--
Hexachlorobenzene	118-74-1	mg/kg	--	--	--	0.0086	--	

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
PAHs	Indeno(1,2,3-cd)pyrene	193-39-5	mg/kg	--	--	--	<0.0071	--
	2-Methylnaphthalene	91-57-6	mg/kg	--	--	--	<0.0071	--
	Naphthalene	91-20-3	mg/kg	--	--	--	<0.0071	--
	Phenanthrene	85-01-8	mg/kg	--	--	--	<0.0071	--
	Pyrene	129-00-0	mg/kg	--	--	--	<0.0071	--
PCBs	Aldrin	309-00-2	µg/kg	<0.21	--	--	--	--
	Aroclor-1016	12674-11-2	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1221	11104-28-2	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1232	11141-16-5	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1242	53469-21-9	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1248	12672-29-6	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1254	11097-69-1	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	Aroclor-1260	11096-82-5	mg/kg	--	<0.038	<0.037	<0.036	<0.035
			µg/kg	<10	--	--	--	--
	alpha-BHC	319-84-6	µg/kg	0.32 J	--	--	--	--
	beta-BHC	319-85-7	µg/kg	0.47 J	--	--	--	--
	delta-BHC	319-86-8	µg/kg	<0.21	--	--	--	--
	gamma-BHC	58-89-9	µg/kg	<0.21	--	--	--	--
	alpha-Chlordane	5103-71-9	µg/kg	<0.21	--	--	--	--
	gamma-Chlordane	5103-74-2	µg/kg	<0.21	--	--	--	--
	4,4'-DDD	72-54-8	µg/kg	<0.41	--	--	--	--
	4,4'-DDE	72-55-9	µg/kg	<0.41	--	--	--	--
	4,4'-DDT	50-29-3	µg/kg	<0.41	--	--	--	--
	Dieldrin	60-57-1	µg/kg	<0.41	--	--	--	--
	Endosulfan I	959-98-8	µg/kg	<0.21	--	--	--	--
	Endosulfan II	33213-65-9	µg/kg	<0.41	--	--	--	--
	Endosulfan sulfate	1031-07-8	µg/kg	<0.41	--	--	--	--
	Endrin	72-20-8	µg/kg	<0.41	--	--	--	--
	Endrin aldehyde	7421-93-4	µg/kg	<0.41	--	--	--	--
	Endrin ketone	53494-70-5	µg/kg	<0.41	--	--	--	--
	Heptachlor	76-44-8	µg/kg	<0.21	--	--	--	--
Heptachlor epoxide	1024-57-3	µg/kg	<0.21	--	--	--	--	
Methoxychlor	72-43-5	µg/kg	<2.1	--	--	--	--	
Toxaphene	8001-35-2	µg/kg	<2.1	--	--	--	--	
RAD	Radium-226	Ra-226	pci/g	--	0.965 J	1.21 J	1.2 J-	0.985 J
	Radium-228	Ra-228	pci/g	--	1.79	2.03	1.91 J-	1.87
	Thorium-228	Th-228	pci/g	--	--	--	0.805 J	--
	Thorium-230	Th-230	pci/g	--	--	--	0.391 J	--
	Thorium-232	Th-232	pci/g	--	--	--	0.759 J	--
Uranium-234	U-234	pci/g	--	--	--	0.262 J+	--	

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
RAD	Uranium-235	U-235	pci/g	--	--	--	0.00551 U	--
	Uranium-238	U-238	pci/g	--	--	--	0.137 J	--
SVOCs	Acenaphthene	83-32-9	µg/kg	<35	<380	<370	<360	<350
	Acenaphthylene	208-96-8	µg/kg	<35	<380	<370	<360	<350
	Anthracene	120-12-7	µg/kg	<35	<380	<370	<360	<350
	Benzo(a)anthracene	56-55-3	µg/kg	<35	<380	<370	<360	<350
	Benzo(a)pyrene	50-32-8	µg/kg	<35	<380	<370	<360	<350
	Benzo(b)fluoranthene	205-99-2	µg/kg	<35	<380	<370	<360	<350
	Benzo(g,h,i)perylene	191-24-2	µg/kg	<35	<380	<370	<360	<350
	Benzo(k)fluoranthene	207-08-9	µg/kg	<35	<380	<370	<360	<350
	4-Bromophenyl-phenyl ether	101-55-3	µg/kg	<70	--	--	--	--
	Butylbenzylphthalate	85-68-7	µg/kg	<70	<380	<370	<360	<350
	Carbazole	86-74-8	µg/kg	<35	--	--	--	--
	4-Chloroaniline	106-47-8	µg/kg	<35	--	--	--	--
	2-Chloronaphthalene	91-58-7	µg/kg	<35	--	--	--	--
	2-Chlorophenol	95-57-8	µg/kg	<35	--	--	--	--
	4-Chlorophenyl-phenyl ether	7005-72-3	µg/kg	<35	--	--	--	--
	Chrysene	218-01-9	µg/kg	<35	<380	<370	<360	<350
	Di-n-butylphthalate	84-74-2	µg/kg	<70	<380	<370	<360	<350
	Di-n-octylphthalate	117-84-0	µg/kg	<70	<380	<370	<360	<350
	Dibenz(a,h)anthracene	53-70-3	µg/kg	<35	<380	<370	<360	<350
	Dibenzofuran	132-64-9	µg/kg	<35	--	--	--	--
	1,2-Dichlorobenzene	95-50-1	µg/kg	<35	--	--	--	--
	1,3-Dichlorobenzene	541-73-1	µg/kg	<35	--	--	--	--
	1,4-Dichlorobenzene	106-46-7	µg/kg	<35	--	--	--	--
	3,3'-Dichlorobenzidine	91-94-1	µg/kg	<70	--	--	--	--
	2,4-Dichlorophenol	120-83-2	µg/kg	<70	--	--	--	--
	Diethylphthalate	84-66-2	µg/kg	<70	<380	<370	<360	<350
	2,4-Dimethylphenol	105-67-9	µg/kg	<70	--	--	--	--
	Dimethylphthalate	131-11-3	µg/kg	<70	<380	<370	<360	<350
	2,4-Dinitrophenol	51-28-5	µg/kg	<200	--	--	--	--
	2,4-Dinitrotoluene	121-14-2	µg/kg	<70	--	--	--	--
	2,6-Dinitrotoluene	606-20-2	µg/kg	<35	--	--	--	--
	1,4-Dioxane	123-91-1	µg/kg	--	<380	<370	<71	<350
	Fluoranthene	206-44-0	µg/kg	<35	<380	<370	<360	<350
	Fluorene	86-73-7	µg/kg	<35	<380	<370	<360	<350
Hexachlorobenzene	118-74-1	µg/kg	<35	<380	<370	<360	<350	
Hexachlorobutadiene	87-68-3	µg/kg	<70	--	--	--	--	
Hexachlorocyclopentadiene	77-47-4	µg/kg	<180	--	--	--	--	
Hexachloroethane	67-72-1	µg/kg	<35	--	--	--	--	
Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	<35	<380	<370	<360	<350	
Isophorone	78-59-1	µg/kg	<35	--	--	--	--	
2-Methylnaphthalene	91-57-6	µg/kg	<35	<380	<370	<360	<350	
2-Methylphenol	95-48-7	µg/kg	<35	--	--	--	--	
4-Methylphenol	106-44-5	µg/kg	<70	--	--	--	--	
Naphthalene	91-20-3	µg/kg	<35	<380	<370	<360	<350	

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
SVOCs	2-Nitroaniline	88-74-4	µg/kg	<35	--	--	--	--
	3-Nitroaniline	99-09-2	µg/kg	<70	--	--	--	--
	4-Nitroaniline	100-01-6	µg/kg	<70	--	--	--	--
	Nitrobenzene	98-95-3	µg/kg	<35	<380	<370	<360	<350
	2-Nitrophenol	88-75-5	µg/kg	<70	--	--	--	--
	4-Nitrophenol	100-02-7	µg/kg	<180	--	--	--	--
	n-Nitrosodiphenylamine	86-30-6	µg/kg	<35	--	--	--	--
	Octachlorostyrene	29082-74-4	µg/kg	--	<380	<370	<360	<350
	Pentachlorophenol	87-86-5	µg/kg	<180	--	--	--	--
	Phenanthrene	85-01-8	µg/kg	<35	<380	<370	<360	<350
	Phenol	108-95-2	µg/kg	<70	--	--	--	--
	Pyrene	129-00-0	µg/kg	<35	<380	<370	<360	<350
	Pyridine	110-86-1	µg/kg	--	<1,800	<1,800	<1,700	<1,700
	1,2,4-Trichlorobenzene	120-82-1	µg/kg	<35	--	--	--	--
	2,4,5-Trichlorophenol	95-95-4	µg/kg	<70	--	--	--	--
	2,4,6-Trichlorophenol	88-06-2	µg/kg	<70	--	--	--	--
	bis(2-Chloro-1-methylethyl) ether	108-60-1	µg/kg	<35	--	--	--	--
	bis(2-Chloroethoxy)methane	111-91-1	µg/kg	<70	--	--	--	--
	bis(2-Chloroethyl) ether	111-44-4	µg/kg	<35	--	--	--	--
	bis(2-Ethylhexyl)phthalate	117-81-7	µg/kg	1,000	<380	150 J	<360	<350
4,6-Dinitro-2-methylphenol	534-52-1	µg/kg	<180	--	--	--	--	
4-Chloro-3-methylphenol	59-50-7	µg/kg	<70	--	--	--	--	
n-Nitroso-di-n-propylamine	621-64-7	µg/kg	<35	--	--	--	--	
TPH	Ethanol	64-17-5	mg/kg	--	--	--	54 UJ	52 UJ
	Ethylene glycol	107-21-1	mg/kg	--	--	--	54 UJ	52 UJ
	Methanol	67-56-1	mg/kg	--	--	--	54 UJ	52 UJ
	Oil Range Organics	TPH-MOTOR	mg/kg	--	<29	26 J+	150 J	4.0 J
	Total petroleum hydrocarbon-diesel	TPH-diesel	mg/kg	--	<29	5.1 J+	<110	<26
	Total petroleum hydrocarbon-gasoline	TPH-gasoline	mg/kg	--	<0.12	<0.11	0.11 UJ	<0.10
VOCs	Acetone	67-64-1	µg/kg	560	<12	<11	12	<10
	t-Amyl methyl ether	994-05-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Benzene	71-43-2	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Bromobenzene	108-86-1	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Bromochloromethane	74-97-5	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Bromodichloromethane	75-27-4	µg/kg	<2	<5.8	<5.6	<5.4	<5.2
	Bromoform	75-25-2	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Bromomethane	74-83-9	µg/kg	<3	<12	<11	11 UJ	10 UJ
	2-Butanone	78-93-3	µg/kg	<7	<12	<11	<11	<10
	n-Butylbenzene	104-51-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	sec-Butylbenzene	135-98-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Carbon disulfide	75-15-0	µg/kg	<3	--	--	--	--
	Carbon tetrachloride	56-23-5	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Chlorobenzene	108-90-7	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Chloroethane	75-00-3	µg/kg	<3	5.8 UJ	5.6 UJ	5.4 UJ	5.2 UJ
	Chloroform	67-66-3	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
Chloromethane	74-87-3	µg/kg	<2	5.8 UJ	5.6 UJ	5.4 UJ	5.2 UJ	

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
VOCs	2-Chlorotoluene	95-49-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	4-Chlorotoluene	106-43-4	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Cumene	98-82-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	p-Cymene	99-87-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,2-Dibromo-3-chloropropane	96-12-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Dibromochloromethane	124-48-1	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	1,2-Dibromoethane	106-93-4	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Dibromomethane	74-95-3	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,2-Dichlorobenzene	95-50-1	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,3-Dichlorobenzene	541-73-1	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,4-Dichlorobenzene	106-46-7	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Dichlorodifluoromethane	75-71-8	µg/kg	--	5.8 UJ	5.6 UJ	5.4 UJ	5.2 UJ
	1,1-Dichloroethane	75-34-3	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	1,2-Dichloroethane	107-06-2	µg/kg	<2	<5.8	<5.6	<5.4	<5.2
	1,1-Dichloroethene	75-35-4	µg/kg	<2	<5.8	<5.6	<5.4	<5.2
	cis-1,2-Dichloroethene	156-59-2	µg/kg	<2	<5.8	<5.6	<5.4	<5.2
	trans-1,2-Dichloroethene	156-60-5	µg/kg	<2	<5.8	<5.6	<5.4	<5.2
	1,2-Dichloropropane	78-87-5	µg/kg	<3	<5.8	<5.6	<5.4	<5.2
	1,3-Dichloropropane	142-28-9	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	2,2-Dichloropropane	594-20-7	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,1-Dichloropropene	563-58-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	cis-1,3-Dichloropropene	10061-01-5	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	trans-1,3-Dichloropropene	10061-02-6	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Diisopropyl ether	108-20-3	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Ethyl benzene	100-41-4	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Ethyl tert-butyl ether	637-92-3	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Hexachlorobutadiene	87-68-3	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	2-Hexanone	591-78-6	µg/kg	<3	12 UJ	11 UJ	11 UJ	10 UJ
	Methyl tert-butyl ether	1634-04-4	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Methylene Chloride	75-09-2	µg/kg	<2	<5.8	<5.6	<5.4	5.2 UJ
	Naphthalene	91-20-3	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	4-Methyl-2-pentanone	108-10-1	µg/kg	4 J	<12	<11	11 UJ	<10
	n-Propylbenzene	103-65-1	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Styrene	100-42-5	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	1,1,1,2-Tetrachloroethane	630-20-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,1,2,2-Tetrachloroethane	79-34-5	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Tetrachloroethene	127-18-4	µg/kg	<1	<5.8	<5.6	<5.4	<5.2
	Toluene	108-88-3	µg/kg	<1	<5.8	<5.6	0.30 J	<5.2
	1,2,3-Trichlorobenzene	87-61-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	1,2,4-Trichlorobenzene	120-82-1	µg/kg	--	<5.8	<5.6	<5.4	<5.2
1,1,1-Trichloroethane	71-55-6	µg/kg	<1	<5.8	<5.6	<5.4	<5.2	
1,1,2-Trichloroethane	79-00-5	µg/kg	<2	<5.8	<5.6	<5.4	<5.2	
Trichloroethene	79-01-6	µg/kg	<1	<5.8	<5.6	<5.4	<5.2	
Trichlorofluoromethane	75-69-4	µg/kg	--	5.8 UJ	5.6 UJ	5.4 UJ	5.2 UJ	
1,2,3-Trichloropropane	96-18-4	µg/kg	--	<5.8	<5.6	<5.4	<5.2	
1,2,4-Trimethylbenzene	95-63-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2	

TABLE C-1. ENSR and Kerr-McGee Data in NERT Off-Site Study Area Shallow Soil used in the OU-2 Refined SLERA Nevada Environmental Response Trust Site Henderson, Nevada

Analyte Group	Analyte	CAS	Unit	Source				
				Kerr McGee (1999)	ENSR (2007)			
					PC-70	SA-24	SA-25	SA-26
				PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5
				0.0 - 0.0 ft bgs	1.0 - 2.5 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs	0.5 - 2.0 ft bgs
6/23/1999	11/3/2006	11/3/2006	11/20/2006	11/2/2006				
VOCs	1,3,5-Trimethylbenzene	108-67-8	µg/kg	--	<5.8	<5.6	<5.4	<5.2
	Vinyl chloride	75-01-4	µg/kg	<2	<5.8	<5.6	5.4 UJ	<5.2
	Xylenes (total)	1330-20-7	µg/kg	<1	<12	<11	<11	<10
	tert Butyl alcohol	75-65-0	µg/kg	--	5.8 UJ	5.6 UJ	5.4 UJ	5.2 UJ
	tert-Butylbenzene	98-06-6	µg/kg	--	<5.8	<5.6	<5.4	<5.2

Notes:

-- = Not available
 µg/kg = Microgram per kilogram
 2,4-D = 2,4-Dichlorophenoxyacetic acid
 2,4-DB = 4-(2,4-Dichlorophenoxy)butanoic acid
 2,4,5-T = 2,4,5-Trichlorophenoxyacetic acid
 2,4,5-TP = Fenoprop
 BHC = Hexachlorocyclohexane
 CaCO₃ = Calcium Carbonate
 DDD = Dichlorodiphenyldichloroethane
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 DL = Detection limit
 EPN = O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate
 ft bgs = Feet below ground surface
 HMW = High Molecular Weight
 LMW = Low Molecular Weight
 mg/kg = Milligram per kilogram.
 N = Nitrogen
 ND = Not detected
 NERT = Nevada Environmental Response Trust
 ng/kg = Nanograms per kilogram
 OCPs = Organochlorine Pesticides
 OPPs = Organophosphate Pesticides
 OU-2 = Operable Unit 2
 PAHs = Polycyclic Aromatic Hydrocarbons
 PCBs = Polychlorinated Biphenyls
 pci/g = Picocuries per gram
 RAD = Radionuclide Compounds
 SLERA = Screening level ecological risk assessment
 SVOCs = Semivolatile Organic Compounds
 TEQ = Toxic equivalency quotient
 TPH = Total Petroleum Hydrocarbons
 VOCs = Volatile Organic Compounds

Validation Qualifiers:

J Indicates an estimated value.
 J+ Indicates an estimated value with a positive bias.
 J- Indicates an estimated value with a negative bias.
 < Below laboratory detection limit.
 UJ Below laboratory detection limit, detection limit uncertain.
 U Radionuclide result below minimum detectable concentration

References:

ENSR. 2007. Phase A Source Area Investigation Report, Tronox LLC Facility, Henderson, Nevada, May 1, 2007.
 Kerr-McGee. 1998. Preliminary Report on a Hydrologic Investigation of Channel-Fill Alluvium at the Pittman Lateral, Henderson, Nevada, October 19, 1998.

Refined Screening Level Ecological Risk Assessment
for Operable Unit 2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX C-2
BEC TRONOX PARCELS A-B SHALLOW SOIL DATA USED IN THE
OU-2 REFINED SLERA

Table C-2 BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
3060A/7196A	Chromium (VI)	mg/kg	<0.16	<0.16	0.25 J	<0.16	<0.17	<0.17	0.24 J	0.18 J	0.24 J	0.2 J	0.31 J	0.19 J	0.32 J	<0.17	0.28 J	0.25 J	<0.16	<0.16		
E160.3	Percent Moisture	percent	2.4	1.6	1.4	2.1	4.8	6.9	2.6	2.7	3.1	3.4	4.2	5.2	2.5	3.8	3.5	3.4	3	2.5		
E300	Bromide	mg/kg	<0.064	<0.063	<0.063	<0.064	4.1 J	6.3 J	<0.064 UJ	5.1 J	1.7 J	4.6 J	7.6 J	<0.066 UJ	0.69 J	1.2 J	<0.065	<0.065	<0.064	<0.064		
	Chlorate	mg/kg	<1	<1	<1	2.6 J	2.1 J	2.8 J	<1	<1	<1	2.8 J	4.6 J	<1.1	<1	1.4 J	<1	<1	<1	<1		
	Chloride	mg/kg	<0.21	12.6	9.1	16.3	905 J-	947 J-	<0.21 UJ	626 J-	555 J-	432 J	2210 J	14.4 J-	165 J-	515 J-	4.4 J-	4.8 J-	273	4.4		
	Fluoride	mg/kg	<0.26	0.79 J	<0.25	1.6	0.68 J	1 J	0.5 J	1.1	<0.26	0.87 J	0.69 J	<0.26	<0.26	<0.26	0.57 J	<0.26	<0.26	<0.26		
	Nitrate (as N)	mg/kg	0.53 J+	1.8	1.6	8.1	5.3 J-	5.5 J-	0.53 J-	13.7 J-	10.6 J-	36.6 J	229 J	0.33 J-	8.3 J-	10.6 J-	1.6 J-	1.3 J-	0.42	2.1		
	Nitrite (as N)	mg/kg	<0.051	<0.051	<0.051	0.45	<0.053	<0.054	<0.051	<0.051	<0.052	<0.052	<0.052	<0.053	<0.051	<0.052	<0.052	<0.052	<0.052	<0.052	<0.051	
	Orthophosphate as P	mg/kg	<1.7	<1.6 UJ	<1.6 UJ	<1.7 UJ	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	2 J	2 J	<1.7	<1.7	
E300.0	Sulfate	mg/kg	11.7	36.2	30.8	38.9	110 J-	116 J-	10.6 J-	385 J-	125 J-	370 J	1450 J	19.3 J-	94.1 J-	52.2 J-	36.3 J-	29.4 J-	170	9.1		
	Bromine	mg/kg	<5.1	<5.1	<5.1	<5.1	8.2 J	12.7 J	<5.1 UJ	10.2 J	3.4 J	9.1 J	15.2 J	<5.3 UJ	1.4 J	2.4 J	<5.2	<5.2	<5.2	<5.1		
	Chlorine	mg/kg	<4.1	25.2	18.3	32.6	1810 J-	1890 J-	<4.1 UJ	1250 J-	1110 J-	863 J	4410 J	28.8 J-	331 J-	1030 J-	8.9 J-	9.5 J-	546	8.9		
E314.0	Perchlorate	µg/kg	64.1	154	151	228	3440	4260	53.4	1020	3710	14700	11200	335	1610	8440	67.2	73	59.9	<3.5		
EPA 300.1 Mod.	Chlorite	µg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
EPA 8270C	2,2'-/4,4'-Dichlorobenzil	µg/kg	<72	<71	<71	<72	<73	<75	<72	<72	<72	<140	<110	<74	<72	<73	<73	<110	<72	<72		
EPA 901.1	RADIUM-226	pCi/g	0.98	1.19	1.08	1.03	1.08	0.959	1.13	1.02	0.953	0.955	1.05	0.954	1.01	1.13	0.926	1.01	1.02	0.881		
	RADIUM-228	pCi/g	1.91	1.78	1.96	1.83	1.75	1.5	1.85	1.75	1.77	1.73	1.79	1.81	1.63	1.82	1.82	1.82	1.97	1.88	2.04	
HASL-300 Th Mod	THORIUM-228	pCi/g	1.48	1.29	1.71	1.52	1.65	1.58	1.36	1.7	1.57	1.19	1.37	1.66	1.86	1.27	1.85	2.07	2.06	1.52		
	THORIUM-230	pCi/g	1.15	0.983	0.982	0.892	1.44	1.03	0.889	1.09	1.07	0.973	0.95	1.04	1.15	1.26	1.06	1.36	1.43	1.13		
	THORIUM-232	pCi/g	1.36	1.38	1.36	1.4	1.49	1.54	1.23	1.6	1.34	1.58	1.54	1.6	1.41	1.63	1.35	1.62	1.63	1.24		
HASL-300 U Mod	URANIUM-233/234	pCi/g	0.438 J	0.341 J	0.365 J	0.279 J	0.702	0.788	0.335 J	0.439 J	0.289 J	0.246 J	0.356 J	0.4 J	0.298 J	0.474 J	0.305 J	0.348 J	0.392 J	0.495 J		
	URANIUM-235/236	pCi/g	0.0106 U	0.00869 U	0.013 U	0.0193 J	0.0214 J	0.0217 J	0.00374 U	0.0143 J	0.0179 J	0.0117 U	0.0122 U	0.00745 U	0.00518 U	0.0158 U	0.0137 U	0.0217 J	0.00892 U	0.0141 J		
	URANIUM-238	pCi/g	0.294 J	0.272 J	0.318 J	0.219 J	0.412 J	0.47 J	0.303 J	0.354 J	0.258 J	0.24 J	0.265 J	0.326 J	0.238 J	0.353 J	0.205 J	0.26 J	0.271 J	0.254 J		
M8015D	TPH (as Diesel)	mg/kg	<1.6	<1.5	<1.5	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6	<1.6 UJ	<1.6	<1.6	<1.6		
SW1664A	HEM Oil/Grease	mg/kg	<178 UJ	<176 UJ	<176 UJ	<177 UJ	<182	<186	<178	<178	<179	<180 UJ	<181 UJ	<183	<178	<180 UJ	<180	<180	<179 UJ	<178 UJ		
	n-Hexane Extractable Material, Silica Gel Treated	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--		
SW6010	Lithium	mg/kg	13.1	15.5	13.9	13	14.5	13.8	16.1	13.9	12.7	14.3	11.9	13.6	11.8	16.6	11.1	13.4	16.9	15.5		
	Sulfur	mg/kg	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4	1210	1110	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4	<421.4		
SW6020	Aluminum	mg/kg	8140	9020	8570	8920	8810	7810	8730	8760	7910	8600	7860	8430	9000	9200	9050	8400	8820	8730		
	Antimony	mg/kg	0.13 J-	<0.1046 UJ	0.11 J-	0.16 J-	0.13 J-	<0.1046 UJ	0.13 J-	0.12 J-	0.15 J-	0.11 J-	<0.1046 UJ	0.12 J-	0.24 J-	0.21 J-	0.19 J-	0.19 J-	0.19 J-	0.24 J-		
	Arsenic	mg/kg	2.4	2.7	2.5	2.8	3.1	3.7	2.5	2.7	2.8	3	2.8	2.3	2.4	2.6	3.1	2.6	3.1	2.7		
	Barium	mg/kg	183	171	222	235	180 J-	158 J-	207 J-	243 J-	177 J-	169	176	183 J-	220 J+	199 J+	220 J+	213 J+	188 J+	177 J+		
	Beryllium	mg/kg	0.49	0.43	0.5	0.52	0.52	0.52	0.51	0.51	0.51	0.5	0.45	0.48	0.52	0.51	0.5	0.48	0.53	0.52		
	Boron	mg/kg	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	
	Cadmium	mg/kg	0.12	0.1 J	0.12	0.19	0.088 J	0.096 J	0.12	0.1 J	0.11	0.13	0.11	0.13	0.14	0.12	0.14	0.14	<0.01	0.22		
	Calcium	mg/kg	37000	24400	23500	25200	27100	37500	32500	23900	24300	30700	23600	27300	18000	23500	19900	19300	20300	21400		
	Chromium (Total)	mg/kg	9.9	13.8	9.7	12.5	10.9 J-	9.6 J-	11.8 J-	12.8 J-	10.9 J-	11.8	10.4	10.7 J-	13.3 J-	12.1 J-	10.2 J-	11.3 J-	12.4 J-	13.1 J-		
	Cobalt	mg/kg	5.3	6.2	5.4	6.3	6.8	7.4	6.5	7	5.7	6	5.3	6	6.5	5.9	6.2	6.5	5.9	6.1		
	Copper	mg/kg	12.3	16.1	12.4	14.5	12.5	15.5	13.5	14	13.2	12.7	11.9	14.1	14.6	12.8	13.7	16.2	12.5	13.9		
	Iron	mg/kg	12400	12200	12800	14200	13600	14500	14600	14300	13700	14800	12900	13100	14900	13900	13500	13800	14200	13500		
	Lead	mg/kg	10	8.1	10.3	14.4	9.3	8.6	10.9	9.3	9.8	8.9	8.6	10.5	13	10.5	11.8	11.7	10.2	14		
	Magnesium	mg/kg	7650 J-	9380 J-	7690 J-	8050 J-	9790	9540	8800	8750	8220	9010 J-	7990 J-	7200	8140 J-	8270 J-	7430 J-	7430 J-	7320 J-	8170 J-		
	Manganese	mg/kg	291	310	332	447	327	313	399	603	322	372	314	364	414	365	400	422	323	394		
	Molybdenum	mg/kg	<0.1046	<0.1046	<0.1046	<0.1046	0.5 J	0.48 J	0.59 J	0.68 J	0.72 J	<0.1046	<0.1046	0.52 J	0.68 J	0.56 J	0.58 J	0.64 J	0.58 J	0.79 J		
	Nickel	mg/kg	12.6	23.7 J	12.1 J	14.3	15.4 J-	16.7 J-	15.6 J-	17.2 J-	14.1 J-	13.8	12.3	14.5 J-	15.3 J-	14.1 J-	13.8 J-	14.7 J-	12.4 J-	14.1 J-		
	Niobium	mg/kg	<1.512	<1.512	<1.512	<1.512	2 J+	<1.512	<1.512	<1.512	<1.512	<1.512	1.6 J+	<1.512	<1.512	<1.512 UJ	<1.512	<1.512	<1.512	<1.512		
	Palladium	mg/kg	0.43	0.39	0.4	0.44	0.52	0.44	0.4	0.39	0.37	0.39	0.34	0.34	0.31	0.34	0.39	0.34	0.32	0.35		
	Phosphorus (as P)	mg/kg	785 J	1320 J	732 J	818 J	807 J	1020 J	947 J	864 J	819 J	814 J	781 J	1040 J	856 J	751 J	1020 J	1130 J	563 J	747 J		
Platinum	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02			
Potassium	mg/kg	3590	2390	3170	3260	2900	2490	3110	3040	2680	4750	4800	3710	3140	4150	3820	3240	4510	3750			
Selenium	mg/kg	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32			
Silicon	mg/kg	657 J+	600 J+	651 J+	420 J+	829	770	1320	745	987	745 J+	508 J+	912	648 J+	421 J+	636 J+	560 J+	477 J+	690 J+			

TTABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007
3060A/7196A	Chromium (VI)	mg/kg	<0.17	<0.16	0.27 J	0.35 J	<0.16	0.49 J	<0.16	0.32 J	<0.17	<0.16	0.54 J	<0.16	
E160.3	Percent Moisture	percent	4	1.7	2.6	1.6	1.8	5.3	2.3	5.6	3.6	2.9	1.8	1.4	
E300	Bromide	mg/kg	<0.065	<0.064	1.3 J	<0.064	<0.064	<0.066	<0.064	<0.066	<0.065	<0.064	<0.064	<0.063	
	Chlorate	mg/kg	<1	<1	<1	<1	<1	<1.1	<1	<1.1	<1	<1	<1	<1	
	Chloride	mg/kg	76.1 J-	3.3	377	7.1	189	7.1	95.2	28.8	13.1 J	7.8 J	4.3	85.9	
	Fluoride	mg/kg	<0.26	<0.25	0.53 J	<0.25	0.8 J	0.87 J	<0.26	<0.26	<0.26	0.56 J	<0.25	0.74 J	
	Nitrate (as N)	mg/kg	2.6 J-	0.99	9	2	5.3	7.2	6.2	2.6	3.5	2.4	0.96	2.2	
	Nitrite (as N)	mg/kg	<0.052	<0.051	<0.051	<0.051	<0.051	<0.051	<0.053	<0.051	<0.053	<0.052	<0.052	<0.051	<0.051
	Orthophosphate as P	mg/kg	<1.7	<1.6	<1.7	<1.6 UJ	<1.6 UJ	<1.7 UJ	<1.7 UJ	<1.7 UJ	<1.7 UJ	<1.7 UJ	<1.6 UJ	<1.6 UJ	
E300.0	Sulfate	mg/kg	112 J-	17.2	73	38	98.7	43.4	487	78.8	536 J	201 J	19.5	94.2	
	Bromine	mg/kg	<5.2	<5.1	2.6 J	<5.1	<5.1	<5.3	<5.1	<5.3	<5.2	<5.2	<5.1	<5.1	
E314.0	Chlorine	mg/kg	152 J-	6.6	753	14.2	378	14.3	190	57.5	26.2 J	15.6 J	8.7	172	
	Perchlorate	µg/kg	256	73.1	1280	304	2070	1170	2670	627	1280 J	368 J	122	492	
EPA 300.1 Mod.	Chlorite	µg/kg	--	--	--	--	--	--	--	--	--	--	--	--	
EPA 8270C	2,2'-/4,4'-Dichlorobenzil	µg/kg	<73	<71	<72	<71	<71	<74	<72	<74	<73	<72	<71	<110	
EPA 901.1	RADIUM-226	pCi/g	0.946	1.05	1.05	0.969	1.04	0.96	0.954	1.02	0.896	1	0.985	1.03	
	RADIUM-228	pCi/g	1.84	1.96	1.68	1.84	1.78	2	1.65	1.76	1.74	1.95	1.81	2.13	
HASL-300 Th Mod	THORIUM-228	pCi/g	2.07	1.82	1.51	1.37	1.8	1.8	1.8	1.21	1.74 J	0.0167 UJ	1.63	2.17	
	THORIUM-230	pCi/g	0.904	1.44	1.2	1.09	1.24	1.39	1.08	0.794	1.26 J	0.308 J	0.891	1.3	
	THORIUM-232	pCi/g	1.48	1.94	1.53	1.58	1.76	1.78	1.85	1.54	2.36 J	0 UJ	1.46	2.02	
HASL-300 U Mod	URANIUM-233/234	pCi/g	0.293 J	0.387 J	0.379 J	0.23 J	0.443 J	0.317 J	0.262 J	0.237 J	0.326 J	0.343 J	0.299 J	0.26 J	
	URANIUM-235/236	pCi/g	0.00611 U	0.0062 U	0.00565 U	0.0104 U	0.0108 U	0.0125 U	0.0158 U	0.00531 U	0.00571 U	0.0215 J+	0.00531 U	0.0056 U	
	URANIUM-238	pCi/g	0.244 J	0.253 J	0.259 J	0.154 J	0.346 J	0.169 J	0.177 J	0.125 J	0.253 J	0.186 J	0.246 J	0.176 J	
M8015D	TPH (as Diesel)	mg/kg	<1.6	<1.5	<1.6	<1.5	<1.5	<1.6	<1.6	<1.6	<1.6	<1.6	<1.5	<1.5	
SW1664A	HEM Oil/Grease	mg/kg	<181	<176 UJ	<178 UJ	<176 UJ	<177 UJ	<183 UJ	<178 UJ	<184 UJ	<180 UJ	<179 UJ	<177 UJ	<176 UJ	
	n-Hexane Extractable Material, Silica Gel Treated	mg/kg	--	--	--	--	--	--	<205 UJ	<212 UJ	<207 UJ	<206 UJ	<204 UJ	--	
SW6010	Lithium	mg/kg	12.2	16.6	14.5	14.9	<3.657	13.9	11.8	12	<1.463	12.2	10.9	13	
	Sulfur	mg/kg	<421.4	<421.4	<421.4	<421.4	<1054	<421.4	443 J	<421.4	<421.4	<421.4	<421.4	<421.4	
SW6020	Aluminum	mg/kg	8090	8540	6780	9750	8990	8270	8010	7390	7510	7740	7960	8670	
	Antimony	mg/kg	0.16 J-	0.19 J-	0.15 J-	0.37 J-	0.21 J-	0.13 J-	0.42 J-	0.38 J-	0.15 J-	0.17 J-	0.16 J-	0.12 J-	
	Arsenic	mg/kg	2.4	2.4	2.3	2.8	2.6	2.5	2.8	2.5	2.5	2.6	2.3	2.3	
	Barium	mg/kg	179 J+	202 J+	162 J+	243	217	170	218 J+	179 J+	208 J+	202 J+	183 J+	208	
	Beryllium	mg/kg	0.49	0.46	0.42	0.57	0.54	0.48	0.5	0.47	0.47	0.49	0.48	0.5	
	Boron	mg/kg	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	<2.824	
	Cadmium	mg/kg	<0.01	0.12	<0.01	0.48	0.59	0.14	0.43	0.56	0.17	0.13	0.14	0.12	
	Calcium	mg/kg	20700	19100	21400	20700	21200	19100	23800	20200	50700 J	23000 J	21400	20700	
	Chromium (Total)	mg/kg	10.4 J-	10.5 J-	7.3 J-	14.7	15.9	11.5	9.9	9.9	7.4	8.7	8.7	10.9	
	Cobalt	mg/kg	5.1	5.3	5	6.7	7	6	7.5 J	5.5 J	6 J	6.1 J	6 J	6.5	
	Copper	mg/kg	11.8	11.8	13	17.8	19.3	14	31	24.4	13	12.7	12.6	15	
	Iron	mg/kg	12000	12700	10500	15600	17200	13900	14000	11900	11000	11800	11300	13900	
	Lead	mg/kg	7.8	9.5	8.7	29.5	18.4	11.6	96.9	136	14.7	13	10.8	11.6	
	Magnesium	mg/kg	8600 J-	7530 J-	6690 J-	8400 J-	8060 J-	7620 J-	9380	7630	7870	7840	8170	8170 J-	
	Manganese	mg/kg	256	341	280	493	476	376	668	405	428	388	415	416	
	Molybdenum	mg/kg	0.48 J	0.69 J	0.62 J	<0.1046	<0.1046	<0.1046	<0.1046	<0.1046	<0.1046	<0.1046	<0.1046	<0.1046	
	Nickel	mg/kg	12.4 J-	13.8 J-	11.5 J-	15.7	22.2	13.8	16.5 J	13.3 J	13.1 J	12.9 J	14.5 J	16.9	
	Niobium	mg/kg	<1.512	<1.5	<1.512	<1.512	<1.512	<1.512	<1.512	<1.512	<1.512	<1.512	<1.512 UJ	<1.512	
	Palladium	mg/kg	0.34	0.35	0.3	0.39	0.35	0.35	0.37	0.34	0.38	0.35	0.33	0.35	
	Phosphorus (as P)	mg/kg	527 J	893 J	947 J	805 J	1110 J	914 J	1510 J	958 J	1120 J	1080 J	1100 J	1080 J	
Platinum	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02		
Potassium	mg/kg	2720	3180	2870	3140	2790	3180	2920 J+	2570 J+	2950 J+	2980 J+	3100 J+	2820		
Selenium	mg/kg	<0.32	<0.33	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32		
Silicon	mg/kg	607 J+	638 J+	265 J+	814 J+	714 J+	652 J+	131 J+	231 J+	262 J+	188 J+	221 J+	552 J+		

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
SW6020	Silver	mg/kg	0.12 J	0.086 J	0.11 J	0.12 J	0.11 J	0.11 J	0.12 J	0.12 J	0.12 J	0.12 J	0.11 J	0.12 J	0.13 J	0.13 J	0.12 J	0.11 J	0.13 J	0.12 J		
	Sodium	mg/kg	373 J+	1100 J	244 J	363 J+	668	584	332	697	541	1720	1450	427	401 J+	459 J+	433 J+	403 J+	649 J+	244 J+		
	Strontium	mg/kg	175	180	177	180	204	187	163	174	143	165	154	138	126 J	141 J	155 J	144 J	126 J	143 J		
	Thallium	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
	Tin	mg/kg	0.51	<0.0526	<0.0526	0.62	0.47	0.45	0.46	0.46	0.51	0.49	<0.0526	0.45	0.67	0.59	0.59	0.61	0.58	0.73		
	Titanium	mg/kg	662	509	648	785	608	650	665	675	759	780	631	648	752	648	713	745	762	667		
	Tungsten	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
	Uranium	mg/kg	1.2	0.84	0.89	0.98	1.1	1.3	0.96	0.94	0.86	0.9	0.88	1	0.96	0.89	0.95	0.83	1	0.86		
	Vanadium	mg/kg	29.4	26.5	30.7	36.3	33.8	36.9	33.7	36.5	33.4	36.4	31	31.4	36.2	32.2	32.7	33.6	35.2	30.9		
	Zinc	mg/kg	32.5 J-	29 J-	30.4 J-	38.2 J-	30.2 J-	32.4 J-	31.9 J-	32.8 J-	31.8 J-	33.3 J-	30.7 J-	33.5 J-	36.7 J-	33.5 J-	33.3 J-	34.7 J-	32.5 J-	61.6 J-		
Zirconium	mg/kg	22.1	17.8 J+	23.7	23.4	19.8 J	22.5	22.1	4.9 J	23.8	24.6	22.2	21.6	23.6	24.5	22.9	22.4	22.4	26.9	25.1		
SW7471	Mercury	µg/kg	15 J	<6.68	7.3 J	10.1 J	13 J	14 J	<6.68	7.9 J	14.8 J	<6.68	11.3 J	<6.68	<6.68	14.4 J	<6.68	<6.68	7.9 J	14.4 J		
SW8015B	Gasoline Range Organics	mg/kg	<0.03	<0.029	<0.029	<0.03	<0.03	<0.031	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03	<0.03		
SW8081	2,4-DDD	µg/kg	<0.12	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	2,4-DDE	µg/kg	<0.092	2.2	3.5	<0.091	<0.094	<0.096	<0.092	<0.092	<0.092	<0.092	<0.093	<0.094	<0.092	<0.093	<0.093	<0.092	7.4 J	<0.092		
	4,4-DDD	µg/kg	<0.16	<0.16	<0.16	<0.16	<0.17	<0.17	<0.16	<0.16	<0.17	<0.17	<0.17	<0.17	<0.16	<0.17	<0.17	<0.17	<0.17	<0.16		
	4,4-DDE	µg/kg	<0.26	4.4	8.2	3.9 J+	<0.26	<0.27	3.5	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.26	<0.26	<0.26	4.6 J	<0.26		
	4,4-DDT	µg/kg	<0.44	3.6	7.3	2.3 J+	<0.45	<0.46	<0.44	<0.44	<0.44	<0.44	<0.45	<0.45	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44		
	Aldrin	µg/kg	<0.09	<0.089	<0.089	<0.09	<0.092	<0.094	<0.09	<0.09	<0.091	<0.091	<0.092	<0.093	<0.09	<0.091	<0.091	<0.091	<0.091	<0.091		
	Chlordane	µg/kg	<2.3	<2.3	<2.3	<2.3	<2.4	<2.4	<2.3	<2.3	<2.4	<2.4	<2.4	<2.4	<2.3	<2.3	<2.4	<2.4	<2.4	<2.3		
	Dieldrin	µg/kg	<0.074	<0.074	<0.074	<0.074	<0.076	<0.078	<0.075	<0.075	<0.075	<0.075	<0.076	<0.077	<0.074	<0.075	<0.075	<0.075	<0.075	<0.074		
	Endosulfan I	µg/kg	<0.085	<0.085	<0.084	<0.085	<0.087	<0.089	<0.086	<0.086	<0.086	<0.086	<0.087	<0.088	<0.085	<0.087	<0.086	<0.086	<0.086	<0.085		
	Endosulfan II	µg/kg	<0.15	<0.15	<0.15	<0.15	<0.15	<0.16	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	Endosulfan sulfate	µg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.13	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	Endrin	µg/kg	<0.085	<0.085	<0.084	<0.085	<0.087	<0.089	<0.086	<0.086	<0.086	<0.086	<0.087	<0.088	<0.085	<0.087	<0.086	<0.086	<0.086	<0.085		
	Endrin aldehyde	µg/kg	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	3.6 J		
	Endrin ketone	µg/kg	<0.39	<0.39	<0.39	<0.39	<0.4	<0.41	<0.39	<0.4	<0.4	<0.4	<0.4	<0.4	<0.39	<0.4	<0.4	<0.4	<0.4	<0.39		
	Heptachlor	µg/kg	<0.6	<0.6	<0.6	<0.6	<0.62	<0.63	<0.61	<0.61	<0.61	<0.61	<0.62	<0.62	<0.61	<0.61	<0.61	<0.61	<0.61	<0.61		
	Heptachlor epoxide	µg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12		
	Lindane	µg/kg	<0.085	<0.085	<0.084	<0.085	<0.087	<0.089	<0.086	<0.086	<0.086	<0.086	<0.087	<0.088	<0.085	<0.087	<0.086	<0.086	<0.086	<0.085		
	Methoxychlor	µg/kg	<0.72	<0.71	<0.71	<0.72	<0.74	<0.75	<0.72	<0.72	<0.72	<0.73	<0.73	<0.74	<0.72	<0.73	<0.73	<0.73	<0.72	<0.72		
	Toxaphene	µg/kg	<7.3	<7.2	<7.2	<7.3	<7.5	<7.7	<7.3	<7.3	<7.4	<7.4	<7.5	<7.5	<7.3	<7.4	<7.4	<7.4	<7.4	<7.3		
	alpha-BHC	µg/kg	<0.099	<0.098	<0.098	<0.098	<0.1	<0.1	<0.099	<0.099	<0.099	<0.1	<0.1	<0.1	<0.099	<0.1	<0.1	<0.1	<0.099	<0.099		
	alpha-Chlordane	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.11	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1		
beta-BHC	µg/kg	2.2	10	17	6 J+	<0.36	<0.37	3.5	<0.35	<0.36	<0.36	<0.36	11	5.3	2.8	5.9	5.9	6.2	<0.35			
delta-BHC	µg/kg	<0.085	<0.085	<0.084	<0.085	<0.087	<0.089	<0.086	<0.086	<0.086	<0.086	<0.087	<0.088	<0.085	<0.087	<0.086	<0.086	<0.086	<0.085			
gamma-Chlordane	µg/kg	<0.088	<0.087	<0.087	<0.087	<0.09	<0.092	<0.088	<0.088	<0.088	<0.088	<0.089	<0.09	<0.088	<0.089	<0.089	<0.089	<0.088	<0.088			
SW8260	1,1,1,2-Tetrachloroethane	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23		
	1,1,1-Trichloroethane	µg/kg	<0.15	<0.15	<0.15	<0.15	<0.15	<0.16	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15		
	1,1,2,2-Tetrachloroethane	µg/kg	<0.14	<0.14	<0.14	<0.14	<0.15	<0.15	<0.14	<0.14	<0.14	<0.15	<0.15	<0.15	<0.14	<0.15	<0.15	<0.14	<0.14	<0.14		
	1,1,2-Trichloroethane	µg/kg	<0.29	<0.29	<0.29	<0.29	<0.29	<0.3	<0.29	<0.29	<0.29	<0.29	<0.29	<0.3	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29		
	1,1-Dichloroethane	µg/kg	<0.97	<0.97	<0.97	<0.97	<0.99	<1	<0.97	<0.98	<0.97	<0.98	<0.98	<1	<0.98	<0.99	<0.99	<0.98	<0.97	<0.97		
	1,1-Dichloroethylene	µg/kg	<0.56	<0.56	<0.56	<0.56	<0.57	<0.58	<0.56	<0.56	<0.56	<0.57	<0.57	<0.58	<0.56	<0.57	<0.57	<0.56	<0.56	<0.56		
	1,1-Dichloropropene	µg/kg	<0.3	<0.3	<0.3	<0.3	<0.3	<0.31	<0.3	<0.3	<0.3	<0.3	<0.3	<0.31	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
	1,2,3-Trichlorobenzene	µg/kg	<0.79	<0.79	<0.79	<0.8	<0.81	<0.83	<0.79	<0.8	<0.8	<0.81	<0.81	<0.82	<0.8	<0.81	<0.81	<0.81	<0.8	<0.79		
	1,2,3-Trichloropropane	µg/kg	<0.56	<0.56	<0.56	<0.57	<0.58	<0.59	<0.57	<0.57	<0.57	<0.58	<0.57	<0.59	<0.57	<0.58	<0.58	<0.57	<0.57	<0.56		
	1,2,4-Trichlorobenzene	µg/kg	<0.74	<0.74	<0.74	<0.75	<0.76	<0.78	<0.75	<0.75	<0.75	<0.76	<0.76	<0.77	<0.75	<0.76	<0.76	<0.75	<0.75	<0.74		
	1,2,4-Trimethylbenzene	µg/kg	<0.22	0.57 J	0.41 J	0.43 J	<0.23	0.24 J	<0.22	0.23 J	<0.22	<0.23	<0.23	<0.23	<0.22	<0.23	0.25 J	<0.22	<0.22	<0.22		
	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	<0.9	<0.9	<0.9	<0.91	<0.93	<0.95	<0.9	<0.92	<0.91	<0.92										

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/7/2007
SW6020	Silver	mg/kg	0.11 J	0.11 J	0.099 J	0.13 J	0.13 J	0.11 J	0.12 J	0.82	0.1 J	0.094 J	0.089 J	0.1 J	
	Sodium	mg/kg	542 J+	363 J+	342 J+	273 J+	369 J+	275 J+	552	427	504	548	369	698	
	Strontium	mg/kg	141 J	143 J	131 J	155	141	144	147 J	130 J	165 J	152 J	140 J	142	
	Thallium	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
	Tin	mg/kg	0.52	0.78	0.52	1.2	0.71	0.56	1.5	1.3	0.52	0.56	0.48	0.47	
	Titanium	mg/kg	613	709	552	752	982	760	544	537	547	530	507	788	
	Tungsten	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
	Uranium	mg/kg	0.83	0.91	0.79	0.87	1	0.9	0.74	0.69	0.91	0.94	0.71	0.9	
	Vanadium	mg/kg	29.4	30.7	27.8	38.2	53.4	37.5	28.5	25	24.2	26.9	25.3	37.1	
	Zinc	mg/kg	28.2 J-	30.1 J-	30.2 J-	211 J-	67.2 J-	43.6 J-	125	79	32 J+	32.2 J+	30.8 J+	33 J-	
Zirconium	mg/kg	21.3	23	21.8	24.2	24.1	21.3	21.1	20.6 J+	21.6	20.6	18.3 J+	20.6		
SW7471	Mercury	µg/kg	10.9 J	9.3 J	10.1 J	15.6 J	15.4 J	7.7 J	14.2 J	8.3 J	12.3 J	13.2 J	11.4 J	14.7 J	
SW8015B	Gasoline Range Organics	mg/kg	<0.03	<0.029	<0.03	<0.029	<0.029	<0.03	<0.03	<0.031	<0.03	<0.03	<0.029	<0.029	
SW8081	2,4-DDD	µg/kg	<0.12	<0.11	<0.12	<0.11	<0.11	<0.12	<0.12	<0.12	<0.12	<0.12	<0.11	<0.11	
	2,4-DDE	µg/kg	<0.093	<0.091	<0.092	<0.091	3.4	2.3 J	<0.091	<0.095	<0.093	<0.092	<0.091	<0.091	
	4,4-DDD	µg/kg	<0.17	<0.16	<0.16	<0.16	<0.16	<0.17	<0.16	<0.17	<0.17	<0.17	<0.16	<0.16	
	4,4-DDE	µg/kg	<0.26	<0.26	2	2 J+	8.4 J+	14 J+	<0.26	7.9 J+	<0.26	1.8	<0.26	2.4 J+	
	4,4-DDT	µg/kg	<0.44	<0.43	<0.44	<0.43	3.2 J	12 J+	<0.44	3.5 J+	<0.44	<0.44	<0.43	<0.43	
	Aldrin	µg/kg	<0.091	<0.089	<0.09	<0.089	<0.089	<0.093	<0.09	<0.093	<0.091	<0.09	<0.089	<0.089	
	Chlordane	µg/kg	<2.4	<2.3	<2.3	<2.3	<2.3	<2.4	<2.3	<2.4	<2.4	<2.3	<2.3	<2.3	
	Dieldrin	µg/kg	<0.076	<0.074	<0.075	<0.074	<0.074	<0.077	<0.074	<0.077	<0.075	<0.075	<0.074	<0.074	
	Endosulfan I	µg/kg	<0.087	<0.085	<0.086	<0.085	<0.085	<0.088	<0.085	<0.088	<0.086	<0.086	<0.085	<0.084	
	Endosulfan II	µg/kg	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.16	<0.15	<0.15	<0.15	<0.15	
	Endosulfan sulfate	µg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	
	Endrin	µg/kg	<0.087	<0.085	<0.086	<0.085	<0.085	<0.088	<0.085	<0.088	<0.086	<0.086	<0.085	<0.084	
	Endrin aldehyde	µg/kg	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	
	Endrin ketone	µg/kg	<0.4	<0.39	<0.39	<0.39	<0.39	<0.41	<0.39	<0.41	<0.4	<0.4	<0.39	<0.39	
	Heptachlor	µg/kg	<0.61	<0.6	<0.61	<0.6	<0.6	<0.62	<0.6	<0.62	<0.61	<0.61	<0.6	<0.6	
	Heptachlor epoxide	µg/kg	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	<0.12	
	Lindane	µg/kg	<0.087	<0.085	<0.086	<0.085	<0.085	<0.088	<0.085	<0.088	<0.086	<0.086	<0.085	<0.084	
	Methoxychlor	µg/kg	<0.73	<0.71	<0.72	<0.71	<0.72	<0.74	<0.72	<0.74	<0.73	<0.72	<0.72	<0.71	
	Toxaphene	µg/kg	<7.4	<7.3	<7.3	<7.3	<7.3	<7.5	<7.3	<7.6	<7.4	<7.4	<7.3	<7.2	
	alpha-BHC	µg/kg	<0.1	<0.098	<0.099	<0.098	<0.098	<0.1	<0.098	<0.1	<0.1	<0.099	<0.098	<0.098	
alpha-Chlordane	µg/kg	<0.1	<0.1	<0.1	<0.1	<0.1	<0.11	<0.1	<0.11	<0.1	<0.1	<0.1	<0.1		
beta-BHC	µg/kg	2.7	6.5	1.7	7.8 J+	15 J+	23 J+	<0.35	59	9.9	11	<0.35	11 J+		
delta-BHC	µg/kg	<0.087	<0.085	<0.086	<0.085	<0.085	<0.088	<0.085	<0.088	<0.086	<0.086	<0.085	<0.084		
gamma-Chlordane	µg/kg	<0.089	<0.087	<0.088	<0.087	<0.087	<0.09	<0.087	<0.091	<0.089	<0.088	<0.087	<0.087		
SW8260	1,1,1,2-Tetrachloroethane	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	
	1,1,1-Trichloroethane	µg/kg	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	
	1,1,2,2-Tetrachloroethane	µg/kg	<0.15	<0.14	<0.14	<0.14	<0.14	<0.15	<0.14	<0.15	<0.15	<0.15	<0.14	<0.14	
	1,1,2-Trichloroethane	µg/kg	<0.29	<0.28	<0.29	<0.29	<0.29	<0.3	<0.29	<0.3	<0.29	<0.29	<0.29	<0.29	
	1,1-Dichloroethane	µg/kg	<0.98	<0.96	<0.97	<0.97	<0.97	<1	<0.97	<1	<0.99	<0.98	<0.97	<0.97	
	1,1-Dichloroethylene	µg/kg	<0.57	<0.55	<0.56	<0.56	<0.56	<0.58	<0.56	<0.58	<0.57	<0.57	<0.56	<0.56	
	1,1-Dichloropropene	µg/kg	<0.3	<0.29	<0.3	<0.3	<0.3	<0.31	<0.3	<0.31	<0.3	<0.3	<0.3	<0.3	
	1,2,3-Trichlorobenzene	µg/kg	<0.8	<0.78	<0.79	<0.79	<0.79	<0.82	<0.8	<0.82	<0.81	<0.8	<0.79	<0.79	
	1,2,3-Trichloropropane	µg/kg	<0.57	<0.56	<0.57	<0.57	<0.57	<0.59	<0.57	<0.59	<0.58	<0.57	<0.57	<0.56	
	1,2,4-Trichlorobenzene	µg/kg	<0.76	<0.74	<0.75	<0.75	<0.75	<0.77	<0.75	<0.78	<0.76	<0.76	<0.75	<0.74	
	1,2,4-Trimethylbenzene	µg/kg	<0.22	<0.22	<0.22	0.39 J	0.35 J	0.31 J	0.23 J	<0.23	0.31 J	0.31 J	0.24 J	0.37 J	
	1,2-Dibromo-3-chloropropane (DBCP)	µg/kg	<0.92	<0.9	<0.91	<0.9	<0.91	<0.94	<0.91	<0.94	<0.92	<0.92	<0.91	<0.9	
	1,2-Dichlorobenzene	µg/kg	<0.15	<0.15	<0.15	<0.15	<0.15	<0.16	<0.15	<0.16	<0.16	<0.15	<0.15	<0.15	
	1,2-Dichloroethane	µg/kg	<0.45	<0.44	<0.45	<0.45	<0.45	<0.46	<0.45	<0.46	<0.45	<0.45	<0.45	<0.44	
	1,2-Dichloroethylene	µg/kg	<0.56	<0.55	<0.55	<0.55	<0.55	<0.57	<0.56	<0.57	<0.56	<0.56	<0.55	<0.55	

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
SW8260	1,2-Dichloropropane	µg/kg	<0.38	<0.38	<0.38	<0.38	<0.39	<0.4	<0.38	<0.38	<0.38	<0.39	<0.39	<0.39	<0.38	<0.39	<0.39	<0.38	<0.38	<0.38		
	1,3,5- Trichlorobenzene	µg/kg	<0.69	<0.69	<0.69	<0.69	<0.7	<0.72	<0.69	<0.7	<0.69	<0.7	<0.7	<0.71	<0.69	<0.7	<0.7	<0.69	<0.69	<0.69		
	1,3,5-Trimethylbenzene	µg/kg	<0.21	<0.21	<0.21	<0.22	<0.22	<0.22	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21		
	1,3-Dichlorobenzene	µg/kg	<0.13	<0.13	<0.13	<0.13	<0.14	<0.14	<0.13	<0.13	<0.13	<0.13	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13		
	1,3-Dichloropropane	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.19	<0.19	<0.18	<0.18	<0.18	<0.19	<0.19	<0.19	<0.18	<0.19	<0.19	<0.18	<0.18	<0.18		
	1,4-Dichlorobenzene	µg/kg	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11		
	1-Nonanal	µg/kg	<0.89	<0.89	<0.89	<0.9	<0.91	<0.94	<0.89	<0.9	<0.9	<0.91	<0.91	<0.93	<0.9	<0.91	<0.91	<0.9	<0.9	<0.89		
	2,2,3-Trimethylbutane	µg/kg	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.21	<0.22	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.21		
	2,2-Dichloropropane	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18		
	2,2-Dimethylpentane	µg/kg	<0.28	<0.28	<0.28	<0.28	<0.29	<0.29	<0.28	<0.28	<0.28	<0.28	<0.28	<0.29	<0.28	<0.29	<0.28	<0.28	<0.28	<0.28		
	2,3-Dimethylpentane	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23		
	2,4-Dimethylpentane	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.21	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2		
	2-Chlorotoluene	µg/kg	<0.46	<0.46	<0.46	<0.47	<0.47	<0.48	<0.46	<0.47	<0.47	<0.47	<0.47	<0.48	<0.47	<0.47	<0.47	<0.47	<0.47	<0.46		
	2-Nitropropane	µg/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.9	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8		
	2-Phenylbutane	µg/kg	<0.25	<0.25	<0.25	<0.25	<0.26	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25		
	3,3-dimethylpentane	µg/kg	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21		
	3-Methylhexane	µg/kg	<0.14	<0.14	<0.14	<0.14	<0.15	<0.15	<0.14	<0.14	<0.14	<0.14	<0.14	<0.15	<0.14	<0.15	<0.15	<0.14	<0.14	<0.14		
	3-ethylpentane	µg/kg	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.21	<0.22	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.21		
	4-Chlorotoluene	µg/kg	<0.89	<0.89	<0.89	<0.9	<0.92	<0.94	<0.9	<0.91	<0.9	<0.91	<0.91	<0.93	<0.9	<0.92	<0.91	<0.9	<0.9	<0.89		
	Acetone	µg/kg	<3.9	<3.9	<3.9	<3.9	16 J	15 J	13 J	7.7 J	<3.9	<3.9	<3.9	6.5 J	<3.9	<4	<3.9	<3.9	<3.9	<3.9		
	Acetonitrile	µg/kg	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.1 UJ	<2.1 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.1 UJ	<2 UJ	<2.1 UJ	<2.1 UJ	<2 UJ	<2 UJ	<2 UJ		
	Benzene	µg/kg	<0.17	<0.17	<0.17	<0.17	<0.18	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.17	<0.17		
	Bromobenzene	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23		
	Bromodichloromethane	µg/kg	<0.34	<0.34	<0.34	<0.34	<0.35	<0.36	<0.34	<0.34	<0.34	<0.34	<0.35	<0.35	<0.35	<0.34	<0.35	<0.35	<0.34	<0.34		
	Bromomethane	µg/kg	<0.32	<0.32	<0.32	<0.32	<0.32	<0.33	<0.32	<0.32	<0.32	<0.32	<0.32	<0.33	<0.32	<0.32	<0.32	<0.32	<0.32	<0.32		
	CFC-11	µg/kg	<0.51	<0.51	<0.51	<0.51	<0.52	<0.53	<0.51	<0.52	<0.51	<0.52	<0.52	<0.53	<0.52	<0.52	<0.52	<0.52	<0.51	<0.51		
	CFC-12	µg/kg	<0.38	<0.38	<0.38	<0.38	<0.39	<0.4	<0.38	<0.38	<0.38	<0.39	<0.39	<0.39	<0.38	<0.39	<0.39	<0.38	<0.38	<0.38		
	Carbon disulfide	µg/kg	<0.56	<0.56	<0.56	<0.56	<0.57	<0.58	<0.56	<0.57	<0.56	<0.57	<0.57	<0.58	<0.56	<0.57	<0.57	<0.56	<0.56	<0.56		
	Carbon tetrachloride	µg/kg	<0.92	<0.92	<0.92	<0.92	<0.94	<0.96	<0.92	<0.93	<0.92	<0.94	<0.93	<0.95	<0.93	<0.94	<0.94	<0.93	<0.92	<0.92		
	Chlorinated fluorocarbon (Freon 113)	µg/kg	<0.54	<0.54	<0.54	<0.55	<0.56	<0.57	<0.54	<0.55	<0.55	<0.55	<0.55	<0.56	<0.55	<0.56	<0.55	<0.55	<0.55	<0.54		
	Chlorobenzene	µg/kg	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13		
	Chlorobromomethane	µg/kg	<0.42	<0.42	<0.42	<0.42	<0.43	<0.44	<0.42	<0.42	<0.42	<0.43	<0.43	<0.43	<0.42	<0.43	<0.43	<0.43	<0.42	<0.42		
	Chlorodibromomethane	µg/kg	<0.3	<0.29	<0.29	<0.29	<0.3	<0.31	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3		
	Chloroethane	µg/kg	<0.36	<0.36	<0.36	<0.36	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		
	Chloroform	µg/kg	<0.14	<0.14	<0.14	<0.15	<0.15	<0.15	<0.14	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.14	<0.14		
	Chloromethane	µg/kg	<0.45	<0.45	<0.45	<0.45	<0.46	<0.47	<0.45	<0.46	<0.45	<0.46	<0.46	<0.47	<0.46	<0.46	<0.46	<0.46	<0.45	<0.45		
	Cymene	µg/kg	<0.24	<0.24	<0.24	<0.24	<0.25	<0.26	<0.24	<0.24	<0.25	<0.25	<0.25	<0.25	<0.24	<0.25	<0.25	<0.25	<0.25	<0.24		
	Dibromomethane	µg/kg	<0.36	<0.36	<0.36	<0.36	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	<0.36	<0.36		
	Dichloromethane	µg/kg	<2.5	<2.5	<2.5	<2.6	<2.6	<2.7	<2.5	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.6	<2.5		
	Ethanol	µg/kg	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<210 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ		
	Ethylbenzene	µg/kg	<0.19	<0.19	<0.19	<0.19	<0.19	<0.2	<0.19	0.2 J	<0.19	<0.19	<0.19	<0.2	<0.19	<0.19	<0.19	<0.19	<0.19	<0.19		
	Hexane, 2-methyl-	µg/kg	<0.21	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21		
	Isopropylbenzene	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18		
	MTBE (Methyl tert-butyl ether)	µg/kg	<0.47	<0.47	<0.47	<0.47	<0.48	<0.49	<0.47	<0.47	<0.47	<0.48	<0.48	<0.48	<0.47	<0.48	<0.48	<0.47	<0.47	<0.47		
	Methyl disulfide	µg/kg	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22	<0.22		
	Methyl ethyl ketone	µg/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.5	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4		
	Methyl iodide	µg/kg	<0.26	<0.26	<0.26	<0.26	<0.27	<0.27	<0.26	<0.26	<0.26	<0.27	<0.27	<0.27	<0.26	<0.27	<0.27	<0.26	<0.26	<0.26		
	Methyl isobutyl ketone	µg/kg	<1.6	<1.6	<1.6	<1.6	<1.7	<1.7	<1.6	<1.7	<1.6	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.6	<1.6		
	Methyl n-butyl ketone	µg/kg	<0.29	<0.29	<0.28	<0.29	<0.29	<0.3	<0.29	<0.29	<0.29	<0.29	<0.29	<0.3	<0.29	<0.29	<0.29	<0.29	<0.29	<0.29		
	Styrene (monomer)	µg/kg	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	<1.2	<1.2		
	Tetrachloroethylene	µg/kg	<0.28	<0.28	<0.28	<0.28	<0.28	<0.29	<0.28	<0.28	<0.28	<0.28	<0.28	<0.29	<0.28	<0.28	<0.28	<0.28	<0.28	<0.28		
	Toluene	µg/kg	<0.13	<0.13	<0.13	<0.13	0.26 J	0.25 J	0.35 J	0.46 J	<0.13											

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/7/2007
SW8260	1,2-Dichloropropane	µg/kg	<0.38	<0.38	<0.38	<0.38	<0.38	<0.39	<0.38	<0.39	<0.39	<0.38	<0.38	<0.38	
	1,3,5- Trichlorobenzene	µg/kg	<0.7	<0.68	<0.69	<0.69	<0.69	<0.71	<0.69	<0.72	<0.7	<0.7	<0.69	<0.69	
	1,3,5-Trimethylbenzene	µg/kg	<0.22	<0.21	<0.21	<0.21	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.21	<0.21	
	1,3-Dichlorobenzene	µg/kg	<0.13	<0.13	<0.13	<0.13	<0.13	<0.14	<0.13	<0.14	<0.13	<0.13	<0.13	<0.13	
	1,3-Dichloropropane	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.19	<0.19	<0.18	<0.18	<0.18	
	1,4-Dichlorobenzene	µg/kg	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	
	1-Nonanal	µg/kg	<0.91	<0.89	<0.89	<0.89	<0.9	<0.93	<0.9	<0.93	<0.91	<0.91	<0.9	<0.89	
	2,2,3-Trimethylbutane	µg/kg	<0.22	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.22	<0.22	<0.22	<0.21	<0.21	
	2,2-Dichloropropane	µg/kg	<0.18	<0.17	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
	2,2-Dimethylpentane	µg/kg	<0.28	<0.28	<0.28	<0.28	<0.28	<0.29	<0.28	<0.29	<0.29	<0.28	<0.28	<0.28	
	2,3-Dimethylpentane	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	
	2,4-Dimethylpentane	µg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	
	2-Chlorotoluene	µg/kg	<0.47	<0.46	<0.46	<0.46	<0.46	<0.48	<0.47	<0.48	<0.47	<0.47	<0.46	<0.46	
	2-Nitropropane	µg/kg	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	<1.8	
	2-Phenylbutane	µg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	<0.25	<0.26	<0.26	<0.25	<0.25	<0.25	
	3,3-dimethylpentane	µg/kg	<0.21	<0.2	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	
	3-Methylhexane	µg/kg	<0.14	<0.14	<0.14	<0.14	<0.14	<0.15	<0.14	<0.15	<0.15	<0.14	<0.14	<0.14	
	3-ethylpentane	µg/kg	<0.22	<0.21	<0.21	<0.21	<0.21	<0.22	<0.21	<0.22	<0.22	<0.22	<0.21	<0.21	
	4-Chlorotoluene	µg/kg	<0.91	<0.89	<0.9	<0.9	<0.9	<0.93	<0.9	<0.93	<0.91	<0.91	<0.9	<0.89	
	Acetone	µg/kg	<3.9	<3.8	<3.9	<3.9	<3.9	<4	<3.9	<4	<4	<3.9	<3.9	<3.9	
	Acetonitrile	µg/kg	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2 UJ	<2.1 UJ	<2 UJ	<2.1 UJ	<2.1 UJ	<2 UJ	<2 UJ	<2 UJ	
	Benzene	µg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.18	<0.17	<0.18	<0.18	<0.17	<0.17	<0.17	
	Bromobenzene	µg/kg	<0.23	<0.23	<0.23	<0.23	<0.23	<0.24	<0.23	<0.24	<0.23	<0.23	<0.23	<0.23	
	Bromodichloromethane	µg/kg	<0.34	<0.34	<0.34	<0.34	<0.34	<0.35	<0.34	<0.35	<0.35	<0.34	<0.34	<0.34	
	Bromomethane	µg/kg	<0.32	<0.31	<0.32	<0.32	<0.32	<0.33	<0.32	<0.33	<0.32	<0.32	<0.32	<0.32	
	CFC-11	µg/kg	<0.52	<0.51	<0.51	<0.51	<0.51	<0.53	<0.51	<0.53	<0.52	<0.52	<0.51	<0.51	
	CFC-12	µg/kg	<0.39	<0.38	<0.38	<0.38	<0.38	<0.39	<0.38	<0.4	<0.39	<0.39	<0.38	<0.38	
	Carbon disulfide	µg/kg	<0.57	<0.55	<0.56	<0.56	<0.56	<0.58	<0.56	<0.58	<0.57	<0.57	<0.56	<0.56	
	Carbon tetrachloride	µg/kg	<0.93	<0.91	<0.92	<0.92	<0.92	<0.95	<0.92	<0.96	<0.94	<0.93	<0.92	<0.92	
	Chlorinated fluorocarbon (Freon 113)	µg/kg	<0.55	<0.54	<0.54	<0.54	<0.54	<0.56	<0.55	<0.57	<0.55	<0.55	<0.54	<0.54	
	Chlorobenzene	µg/kg	<0.13	<0.12	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	<0.13	
	Chlorobromomethane	µg/kg	<0.43	<0.42	<0.42	<0.42	<0.42	<0.43	<0.42	<0.44	<0.43	<0.42	<0.42	<0.42	
	Chlorodibromomethane	µg/kg	<0.3	<0.29	<0.3	<0.29	<0.29	<0.3	<0.29	<0.3	<0.3	<0.3	<0.29	<0.29	
	Chloroethane	µg/kg	<0.36	<0.35	<0.36	<0.36	<0.36	<0.37	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	
	Chloroform	µg/kg	<0.15	<0.14	<0.14	<0.14	<0.14	<0.15	<0.15	<0.15	<0.15	<0.15	<0.14	<0.14	
	Chloromethane	µg/kg	<0.46	<0.45	<0.45	<0.45	<0.45	<0.47	<0.45	<0.47	<0.46	<0.46	<0.45	<0.45	
	Cymene	µg/kg	<0.25	<0.24	<0.24	<0.24	<0.24	<0.25	<0.24	<0.25	<0.25	<0.25	<0.24	<0.24	
	Dibromomethane	µg/kg	<0.36	<0.35	<0.36	<0.36	<0.36	<0.37	<0.36	<0.37	<0.36	<0.36	<0.36	<0.36	
	Dichloromethane	µg/kg	<2.6	<2.5	<2.5	<2.5	<2.5	<2.6	<2.6	<2.6	<2.6	<2.6	<2.5	<2.5	
	Ethanol	µg/kg	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	<210 UJ	<200 UJ	<200 UJ	<200 UJ	<200 UJ	
	Ethylbenzene	µg/kg	<0.19	0.24 J	<0.19	<0.19	<0.19	<0.2	<0.19	<0.2	<0.19	<0.19	<0.19	<0.19	
	Hexane, 2-methyl-	µg/kg	<0.21	<0.2	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	
	Isopropylbenzene	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.19	<0.18	<0.18	<0.18	<0.18	
	MTBE (Methyl tert-butyl ether)	µg/kg	<0.47	<0.46	<0.47	<0.47	<0.47	<0.49	<0.47	<0.49	<0.48	<0.47	<0.47	<0.47	
	Methyl disulfide	µg/kg	<0.22	<0.21	<0.22	<0.22	<0.22	<0.22	<0.22	<0.23	<0.22	<0.22	<0.22	<0.22	
	Methyl ethyl ketone	µg/kg	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.4	<1.5	<1.4	<1.4	<1.4	<1.4	
	Methyl iodide	µg/kg	<0.27	<0.26	<0.26	<0.26	<0.26	<0.27	<0.26	<0.27	<0.27	<0.26	<0.26	<0.26	
	Methyl isobutyl ketone	µg/kg	<1.7	<1.6	<1.6	<1.6	<1.6	<1.7	<1.6	<1.7	<1.7	<1.7	<1.6	<1.6	
	Methyl n-butyl ketone	µg/kg	<0.29	<0.28	<0.29	<0.29	<0.29	<0.3	<0.29	<0.3	<0.29	<0.29	<0.29	<0.28	
	Styrene (monomer)	µg/kg	<1.2	<1.2	<1.2	<1.2	<1.2	<1.3	<1.2	<1.3	<1.2	<1.2	<1.2	<1.2	
	Tetrachloroethylene	µg/kg	<0.28	<0.28	<0.28	<0.28	<0.28	<0.29	<0.28	<0.29	<0.28	<0.28	<0.28	<0.28	
	Toluene	µg/kg	<0.14	<0.13	<0.13	<0.13	<0.13	0.31 J	<0.13	<0.14	<0.14	<0.13	<0.13	<0.13	

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
SW8260	Tribromomethane	µg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	
	Trichloroethylene	µg/kg	<0.36	<0.36	<0.36	<0.37	<0.37	<0.38	<0.36	<0.37	<0.37	<0.37	<0.37	<0.38	<0.37	<0.37	<0.37	<0.37	<0.37	<0.37	<0.36	
	Vinyl acetate	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	<0.18	
	Vinyl chloride	µg/kg	<0.24	<0.24	<0.24	<0.24	<0.25	<0.25	<0.24	<0.24	<0.24	<0.25	<0.24	<0.25	<0.24	<0.24	<0.25	<0.25	<0.24	<0.24	<0.24	
	Xylenes (total)	µg/kg	<0.87	<0.87	<0.87	<0.88	<0.89	<0.91	<0.87	<0.88	<0.88	<0.89	<0.89	<0.9	<0.88	<0.89	<0.89	<0.89	<0.88	<0.87	<0.87	
	cis-1,2-Dichloroethylene	µg/kg	<0.43	<0.43	<0.43	<0.44	<0.44	<0.46	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.45	<0.44	<0.44	<0.44	<0.44	<0.44	<0.44	<0.43
	cis-1,3-Dichloropropylene	µg/kg	<0.74	<0.74	<0.74	<0.74	<0.76	<0.77	<0.74	<0.75	<0.74	<0.75	<0.75	<0.77	<0.75	<0.75	<0.76	<0.75	<0.75	<0.74	<0.74	<0.74
	m,p-Xylene	µg/kg	<0.58	<0.58	<0.57	<0.58	<0.59	<0.6	<0.58	<0.58	<0.58	<0.59	<0.59	<0.6	<0.58	<0.59	<0.59	<0.59	<0.58	<0.58	<0.58	
	n-Butyl benzene	µg/kg	<0.54	<0.54	<0.54	<0.54	<0.55	<0.56	<0.54	<0.55	<0.54	<0.55	<0.55	<0.56	<0.54	<0.55	<0.55	<0.55	<0.54	<0.54	<0.54	
	n-Heptane	µg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.18	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	
	n-Propyl benzene	µg/kg	<0.96	<0.96	<0.96	<0.97	<0.98	<1	<0.96	<0.97	<0.97	<0.98	<0.98	<1	<0.97	<0.98	<0.98	<0.98	<0.97	<0.96	<0.96	
	o-Xylene	µg/kg	<0.31	<0.31	<0.31	<0.31	<0.32	<0.33	<0.31	<0.31	<0.31	<0.32	<0.32	<0.32	<0.32	<0.31	<0.32	<0.32	<0.31	<0.31	<0.31	
	tert-Butyl benzene	µg/kg	<0.27	<0.27	<0.27	<0.27	<0.28	<0.28	<0.27	<0.27	<0.27	<0.27	<0.27	<0.27	<0.28	<0.27	<0.28	<0.27	<0.27	<0.27	<0.27	
trans-1,2-Dichloroethylene	µg/kg	<0.22	<0.22	<0.22	<0.23	<0.23	<0.24	<0.22	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23		
trans-1,3-Dichloropropylene	µg/kg	<0.2	<0.21	<0.2	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21		
SW8270	1,2,4,5-Tetrachlorobenzene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	1,2-Diphenylhydrazine	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	1,4-Dioxane	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	2,4,5-Trichlorophenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2,4,6-Trichlorophenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2,4-Dichlorophenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2,4-Dimethylphenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2,4-Dinitrophenol	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340	
	2,4-Dinitrotoluene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2,6-Dinitrotoluene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2-Chloronaphthalene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2-Chlorophenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2-Methylnaphthalene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2-Nitroaniline	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	2-Nitrophenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	3,3'-Dichlorobenzidine	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	3-Methylphenol & 4-Methylphenol	µg/kg	<68	<68	<68	<68	<70	<72	<68	<68	<68	<69	<69	<70	<70	<68	<69	<69	<69	<69	<68	
	3-Nitroaniline	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	4-Bromophenyl phenyl ether	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	4-Chloro-3-Methylphenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	4-Chlorophenyl phenyl ether	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	4-Chlorothiobanisole	µg/kg	<7.8	<7.7	<7.7	<7.8	<8	<8.2	<7.8	<7.8	<7.9	<7.9	<7.9	<8	<7.8	<7.9	<7.9	<7.9	<7.9	<7.8	<7.8	
	4-Nitrophenol	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340	
	Acetophenone	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Aniline	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Azobenzene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Benzenethiol	µg/kg	<130	<130	<120	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	
	Benzoic acid	µg/kg	<34 UJ	<34 UJ	<34 UJ	<34 UJ	<35 UJ	<36 UJ	<34 UJ	<34 UJ	<34 UJ	<34 UJ	<35 UJ	<35 UJ	<34 UJ	<35 UJ	<35 UJ	<35 UJ	<34 UJ	<34 UJ	<34 UJ	
	Benzyl alcohol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Benzyl butyl phthalate	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Carbazole	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Di-n-octyl phthalate	µg/kg	<15	<15	<15	<15	<16	<16	<15	<15	<15	<15	<15	<16	<15	<15	<15	<15	<15	<15	<15	
	Dibenzofuran	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
Dibutyl phthalate	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34		
Di																						

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/7/2007
SW8260	Tribromomethane	µg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	<0.26	<0.25	<0.26	<0.25	<0.25	<0.25	<0.25	
	Trichloroethylene	µg/kg	<0.37	<0.36	<0.36	<0.36	<0.36	<0.38	<0.37	<0.38	<0.37	<0.37	<0.36	<0.36	
	Vinyl acetate	µg/kg	<0.18	<0.18	<0.18	<0.18	<0.18	<0.19	<0.18	<0.19	<0.18	<0.18	<0.18	<0.18	
	Vinyl chloride	µg/kg	<0.24	<0.24	<0.24	<0.24	<0.24	<0.25	<0.24	<0.25	<0.25	<0.24	<0.24	<0.24	
	Xylenes (total)	µg/kg	<0.88	<0.86	<0.87	<0.87	<0.87	<0.9	<0.88	<0.91	<0.89	<0.88	<0.87	<0.87	
	cis-1,2-Dichloroethylene	µg/kg	<0.44	<0.43	<0.44	<0.44	<0.44	<0.45	<0.44	<0.45	<0.44	<0.44	<0.44	<0.43	
	cis-1,3-Dichloropropylene	µg/kg	<0.75	<0.73	<0.74	<0.74	<0.74	<0.77	<0.74	<0.77	<0.75	<0.75	<0.74	<0.74	
	m,p-Xylene	µg/kg	<0.58	<0.57	<0.58	<0.58	<0.58	<0.6	<0.58	<0.6	<0.59	<0.58	<0.58	<0.57	
	n-Butyl benzene	µg/kg	<0.55	<0.53	<0.54	<0.54	<0.54	<0.56	<0.54	<0.56	<0.55	<0.55	<0.54	<0.54	
	n-Heptane	µg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	
	n-Propyl benzene	µg/kg	<0.97	<0.95	<0.96	<0.96	<0.96	<1	<0.97	<1	<0.98	<0.97	<0.96	<0.96	
	o-Xylene	µg/kg	<0.32	<0.31	<0.31	<0.31	<0.31	<0.32	<0.31	<0.32	<0.32	<0.32	<0.31	<0.31	
	tert-Butyl benzene	µg/kg	<0.27	<0.27	<0.27	<0.27	<0.27	<0.28	<0.27	<0.28	<0.27	<0.27	<0.27	<0.27	
	trans-1,2-Dichloroethylene	µg/kg	<0.23	<0.22	<0.22	<0.22	<0.23	<0.23	<0.23	<0.23	<0.23	<0.23	<0.22	<0.22	
trans-1,3-Dichloropropylene	µg/kg	<0.21	<0.2	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.21	<0.2		
SW8270	1,2,4,5-Tetrachlorobenzene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	1,2-Diphenylhydrazine	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	1,4-Dioxane	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,4,5-Trichlorophenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,4,6-Trichlorophenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,4-Dichlorophenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,4-Dimethylphenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,4-Dinitrophenol	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330	
	2,4-Dinitrotoluene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2,6-Dinitrotoluene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2-Chloronaphthalene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2-Chlorophenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2-Methylnaphthalene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2-Nitroaniline	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	2-Nitrophenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	3,3'-Dichlorobenzidine	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	3-Methylphenol & 4-Methylphenol	µg/kg	<69	<68	<68	<68	<68	<70	<68	<71	<69	<69	<68	<68	
	3-Nitroaniline	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	4-Bromophenyl phenyl ether	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	4-Chloro-3-Methylphenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	4-Chlorophenyl phenyl ether	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	4-Chlorothioanisole	µg/kg	<7.9	<7.7	<7.8	<7.7	<7.7	<8	<7.8	<8.1	<7.9	<7.8	<7.7	<7.7	
	4-Nitrophenol	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330	
	Acetophenone	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Aniline	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Azobenzene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Benzenethiol	µg/kg	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<130	<120	
	Benzoic acid	µg/kg	<35 UJ	<34 UJ	<34 UJ	<34 UJ	<34 UJ	<35 UJ	<34 UJ	<35 UJ	<35 UJ	<34 UJ	<34 UJ	<34 UJ	
	Benzyl alcohol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Benzyl butyl phthalate	µg/kg	<35	<34	<34	<34	<34	<35	<34	280 J	<35	<34	<34	<34	
Carbazole	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34		
Di-n-octyl phthalate	µg/kg	<15	<15	<15	<15	<15	<16	<15	<16	<15	<15	<15	<15		
Dibenzofuran	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34		
Dibutyl phthalate	µg/kg	<35	<34	<34	<34	<34	<35	<34	50 J	<35	<34	<34	<34		
Diethyl phthalate	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34		
Dimethyl phthalate	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34		
Diphenyl sulfone	µg/kg	<6.9	<6.8	<6.8	<6.8	<6.8	<7	<6.8	<7	<6.9	<6.9	<6.8	<6.7		

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
SW8270	Fluoranthene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	Fluorene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	Hexachloro-1,3-butadiene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	Hexachlorobenzene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34		
	Hexachlorocyclopentadiene	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340	
	Hexachloroethane	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<34	<34	<34	<34	
	Hydroxymethyl phthalimide	µg/kg	<44	<44	<44	<44	<46	<47	<45	<45	<45	<45	<45	<46	<45	<45	<45	<45	<45	<45	<45	<45
	Isophorone	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	N-nitrosodi-n-propylamine	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	N-nitrosodiphenylamine	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Naphthalene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Nitrobenzene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Octachlorostyrene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Pentachlorobenzene	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Pentachlorophenol	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340	
	Phenol	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	Phenyl Disulfide	µg/kg	<29	<29	<29	<29	<30	<31	<29	<30	<30	<30	<30	<30	<29	<30	<30	<30	<30	<30	<29	
	Phenyl Sulfide	µg/kg	<3.6	<3.6	<3.6	<3.6	<3.7	<3.8	<3.6	<3.6	<3.6	<3.7	<3.7	<3.7	<3.6	<3.7	<3.7	<3.7	<3.7	<3.6	<3.6	
	Phthalic acid	µg/kg	<260	<250	<250	<260	<260	<270	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	<260	
	Pyridine	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	bis(2-Chloroethoxy) methane	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	bis(2-Chloroethyl) ether	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	bis(2-Chloroisopropyl) ether	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	bis(2-Ethylhexyl) phthalate	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34	
	bis(p-Chlorophenyl) disulfide	µg/kg	<210	<210	<210	<210	<210	<220	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	
bis(p-Chlorophenyl) sulfone	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340		
o-Cresol	µg/kg	<120	<120	<120	<120	<120	<130	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120	<120		
p-Chloroaniline	µg/kg	<34	<34	<34	<34	<35	<36	<34	<34	<34	<34	<35	<35	<34	<35	<35	<35	<34	<34	<34		
p-Chlorothiophenol	µg/kg	<190	<190	<190	<190	<190	<200	<190	<190	<190	<190	<190	<200	<190	<190	<190	<190	<190	<190	<190		
p-Nitroaniline	µg/kg	<340	<340	<330	<340	<350	<350	<340	<340	<340	<340	<340	<350	<340	<340	<340	<340	<340	<340	<340		
SW8290	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	pg/g	<1.1	4.9 J	--	13	<3.1	--	14 J	<2.1	13 J	<0.67	<0.8	6 J	8.4	<1	22	--	3.5 J	13		
	1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/g	5.8	59	--	160	10	--	170 J	25	200	6.9 J	2.8 J	86	99	<0.87	48	--	41	32		
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/g	2.7 J	26	--	59	4.7 J	--	110 J	9.7 J	73	<2.5	<0.96	30	32	<0.53	16	--	14	12		
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	pg/g	<0.66	<0.79	--	<2	<2.2	--	<2.3	<1.9	<2.1	<0.53	<0.52	<2.2	<0.97	<0.5	<2	--	<0.43	<1.9		
	1,2,3,4,7,8-Hexachlorodibenzofuran	pg/g	3.6 J	29	--	72	5.1 J	--	120	9.6	74	3.4 J	<1.4	31	35	<0.51	18	--	15	15		
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	pg/g	<0.71	<2.3	--	4.8 J	<2.1	--	6.2	<1.8	4.4 J	<0.57	<0.56	<2.1	2.7 J	<0.47	<1.9	--	<1.1	<1.8		
	1,2,3,6,7,8-Hexachlorodibenzofuran	pg/g	2.9 J	23	--	57	3.7 J	--	84	7.3	56	<2.3	<0.77	26	29	<0.35	14	--	11	11		
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	pg/g	<0.54	<1.7	--	4.1 J	<1.8	--	6.3	<1.5	3.1 J	<0.43	<0.43	<1.7	<2.3	<0.41	<1.6	--	<0.81	<1.5		
	1,2,3,7,8,9-Hexachlorodibenzofuran	pg/g	<0.6	2.9 J	--	7.1	<2.7	--	9.2 J	<2.6	5.2	<1.2	<0.55	<2.1	3.6 J	<0.41	<2.2	--	<1.6	<2.4		
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	pg/g	<0.66	<2.1	--	3.8 J	<2.2	--	7.2 J	<1.8	3.1 J	<0.79	<0.68	<2.1	<1.8	<0.57	<2	--	<0.75	<1.9		
	1,2,3,7,8-Pentachlorodibenzofuran	pg/g	2.8 J	21	--	47	3 J	--	84 J	6.3	41	<1.8	<0.8	19	21	<0.34	9.9	--	7.9	11		
	2,3,4,6,7,8-Hexachlorodibenzofuran	pg/g	<0.88	5.4	--	14	<2.7	--	23	<2.6	13	<0.61	<0.37	6.3	7.2	<0.41	3.9 J	--	<2.4	3.6 J		
	2,3,4,7,8-Pentachlorodibenzofuran	pg/g	<1.4	11	--	24	<2.3	--	42 J	2.8 J	21	<0.87	<0.47	11	11	<0.36	5 J	--	3.8 J	4.9 J		
	2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/g	<0.39	<0.34	--	0.95 J	<0.98	--	1.4 J	<0.97	0.95 J	<0.37	<0.37	<0.9	<0.37	<0.31	<0.84	--	<0.36	<0.81		
	2,3,7,8-Tetrachlorodibenzofuran	pg/g	1.6	10	--	25	1.6	--	43 J	3.1	19	1.1 J	<0.43 UJ	9.5	11	<0.26	5.6	--	3.5	6.9		
Octachlorodibenzodioxin	pg/g	<2.7 UJ	6.4 J	--	14	<5	--	21 J	6.6 J	20	<2.6	<1	9 J	13	7.9 J+	100	--	6.2 J	76			
Octachlorodibenzofuran	pg/g	9.8 J	120	--	300	16	--	350 J	52	480	19 J	<4.9 UJ	170	200	<1.9	100	--	91	65			
SW8310	Acenaphthene	µg/kg	280	200 J	<20 UJ	<20	<21	<21	<20	<20	<20	75 J	140 J	<21	<20	<20	<20	<20	<20	<20		
	Acenaphthylene	µg/kg	<16 UJ	<16 UJ	<16 UJ	<16 UJ	<17 UJ	<17 UJ	<16 UJ	<16 UJ	<16 UJ	<16 UJ	<17 UJ	<17 UJ	<16 UJ	<17 UJ	<16 UJ	<16 UJ	<16 UJ	<16 UJ		
	Anthracene	µg/kg	<0.99	<0.98	<0.98	<0.99	<1	<1	<0.99	<0.99	<0.99	<1	<1	<1	<0.99	<1	<1	<1	<0.99	<0.99		
	Benzo(a)anthracene	µg/kg	<2	<2	<2	<2	<2.1 UJ	55 J	<2	<2	<2	<2	<2.1	<2.1	<2	<2	<2	<2	<2	<2		
	Benzo(a)pyrene	µg/kg	<2.1	<2.1	<2.1	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	<2.2	<2.2	<2.2	<2.1	<2.2	<2.2	<2.2	<2.2	<2.1		

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/7/2007
SW8270	Fluoranthene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Fluorene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Hexachloro-1,3-butadiene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Hexachlorobenzene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Hexachlorocyclopentadiene	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330	
	Hexachloroethane	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Hydroxymethyl phthalimide	µg/kg	<45	<44	<45	<44	<44	<46	<44	<46	<45	<45	<44	<44	
	Isophorone	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	N-nitrosodi-n-propylamine	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	N-nitrosodiphenylamine	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Naphthalene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Nitrobenzene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Octachlorostyrene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Pentachlorobenzene	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Pentachlorophenol	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330	
	Phenol	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	Phenyl Disulfide	µg/kg	<30	<29	<30	<29	<29	<30	<29	<30	<30	<30	<29	<29	
	Phenyl Sulfide	µg/kg	<3.7	<3.6	<3.6	<3.6	<3.6	<3.7	<3.6	<3.7	<3.7	<3.6	<3.6	<3.6	
	Phthalic acid	µg/kg	<260	<250	<260	<250	<250	<260	<260	<260	<260	<260	<250	<250	
	Pyridine	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	bis(2-Chloroethoxy) methane	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	bis(2-Chloroethyl) ether	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
	bis(2-Chloroisopropyl) ether	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34	
bis(2-Ethylhexyl) phthalate	µg/kg	<35	<34	<34	<34	<34	<35	<34	140 J	<35	<34	<34	<34		
bis(p-Chlorophenyl) disulfide	µg/kg	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210	<210		
bis(p-Chlorophenyl) sulfone	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330		
o-Cresol	µg/kg	<120	<120	<120	<120	<120	<120	<120	<130	<120	<120	<120	<120		
p-Chloroaniline	µg/kg	<35	<34	<34	<34	<34	<35	<34	<35	<35	<34	<34	<34		
p-Chlorothiophenol	µg/kg	<190	<190	<190	<190	<190	<200	<190	<200	<190	<190	<190	<190		
p-Nitroaniline	µg/kg	<340	<340	<340	<340	<340	<350	<340	<350	<340	<340	<340	<330		
SW8290	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	pg/g	<1.5	4.3 J	6.5	8.9	27 J	66	14	52	6.6	9.4	13	14	
	1,2,3,4,6,7,8-Heptachlorodibenzofuran	pg/g	2.7 J+	50	81	92	320 J	740	170	600	60	97	160	170	
	1,2,3,4,7,8,9-Heptachlorodibenzofuran	pg/g	<0.98	16	28	49	170 J	300	68	220	29	42	71	70	
	1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	pg/g	<0.4	<0.48	<0.98	<1.7	4.3 J	8.2	<2.5	6.9	<1.5	<1.6	<1.7	<2.2	
	1,2,3,4,7,8-Hexachlorodibenzofuran	pg/g	<1.1	19	30	54	150	310	82	250	36	47	78	82	
	1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	pg/g	<0.37	<1.6	<1.9	4.5 J	11	19	6.3	16	2.6 J	3.5 J	4.4 J	5.8	
	1,2,3,6,7,8-Hexachlorodibenzofuran	pg/g	<0.69	16	23	47	130	250	68	200	31	41	64	67	
	1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	pg/g	<0.51	<1.3	<2	3.1 J	7.6	16	4.1 J	10	<1.6	2.9 J	3.4 J	4.8 J	
	1,2,3,7,8,9-Hexachlorodibenzofuran	pg/g	<0.32	<1.8	3.1 J	8.5	22	38	9.1	24	4.9 J	5.2	9.6	8.4	
	1,2,3,7,8-Pentachlorodibenzo-p-dioxin	pg/g	<0.61	<1.4	<1.8	4.1 J	8 J	16	4 J	11	<2.2	3.2 J	4.9 J	4.2 J	
	1,2,3,7,8-Pentachlorodibenzofuran	pg/g	<0.75	12	18	52	120	220	65	160	33	36	59	62	
	2,3,4,6,7,8-Hexachlorodibenzofuran	pg/g	<0.25	3.3 J	5 J	13	34	56	17	52	7.5	9.8	16	17	
	2,3,4,7,8-Pentachlorodibenzofuran	pg/g	<0.41	6.1	8.3	28	60	110	34	76	16	18	29	31	
	2,3,7,8-Tetrachlorodibenzo-p-dioxin	pg/g	<0.27	<0.36	<0.32	0.97 J	2.4	4.6	0.99 J	2.5 J	1.1	0.88 J	1.2	1	
	2,3,7,8-Tetrachlorodibenzofuran	pg/g	<0.41	5.6	7.4	31	69	130	38	81	17	19	33	32	
Octachlorodibenzodioxin	pg/g	9.4 J+	7.3 J	10	15 J	41 J	170	21	110	6 J	15 J	12	13		
Octachlorodibenzofuran	pg/g	5.5 J+	100	180	180 J	690 J	1800	330	1200	110 J	200	380	360		
SW8310	Acenaphthene	µg/kg	<21	<20	400	<20	<20 UJ	<21	<20	<21	<20	<20	<20	<20	
	Acenaphthylene	µg/kg	<17 UJ	<16 UJ	<16 UJ	<16 UJ	<16 UJ	<17 UJ	<16 UJ	<17 UJ	<16 UJ	<16 UJ	<16 UJ	<16 UJ	
	Anthracene	µg/kg	<1	<0.98	<0.99	<0.98	<0.98 UJ	<1	<0.99	<1	<1	<0.99	<0.98	<0.98	
	Benzo(a)anthracene	µg/kg	<2.1	<2	<2	<2	<2 UJ	<2.1	<2	<2.1	<2	<2	<2	<2	
	Benzo(a)pyrene	µg/kg	<2.2	<2.1	<2.1	<2.1	<2.1 UJ	<2.2	<2.1	<2.2	<2.2	<2.1	<2.1	<2.1	

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0 (FD)	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0 (FD)	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0 (FD)	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0 (FD)	TSB-AR-12-0	TSB-AR-13-0		
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/7/2007	9/7/2007	9/7/2007	9/7/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/5/2007	9/7/2007	9/7/2007	9/5/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007	9/6/2007
SW8310	Benzo(b)fluoranthene	µg/kg	<2	<2	<2	<2	<2.1	<2.1	<2	<2	<2	<2	<2.1	<2.1	<2	<2	<2	<2	<2	<2	<2	
	Benzo(g,h,i)perylene	µg/kg	<3.1	<3.1	<3.1	<3.1	<3.2	<3.3	<3.1	<3.1	<3.1	<3.2	<3.2	<3.2	<3.1	<3.2	<3.2	<3.2	<3.1	<3.1	<3.1	
	Benzo(k)fluoranthene	µg/kg	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.5 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	
	Chrysene	µg/kg	<1.6	<1.6	<1.6	<1.6	<1.7	<1.7	<1.6	<1.6	<1.7	<1.7	<1.7	<1.7	<1.6	<1.7	<1.7	<1.7	<1.7	<1.6	<1.6	
	Dibenzo(a,h)anthracene	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.8	<3.9	<3.7	<3.7	<3.7	<3.7	<3.8	<3.8	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	<3.7	
	Indeno(1,2,3-cd)pyrene	µg/kg	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	
	Phenanthrene	µg/kg	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	
	Pyrene	µg/kg	<2.7	<2.7	<2.7	<2.7	<2.8	<2.9	<2.7	<2.7	<2.8	<2.8	<2.8	<2.8	<2.8	<2.7	<2.8	<2.8	<2.8	<2.8	<2.7 UJ	

Notes:

- = Not available
- µg/kg = Microgram per kilogram
- BEC = Basic Environmental Company/BHC = Hexachlorocyclohexane
- CFC = Chlorofluorocarbon
- DDD = Dichlorodiphenyldichloroethane
- DDE = Dichlorodiphenyldichloroethylene
- DDT = Dichlorodiphenyltrichloroethane
- FD = Field Duplicate
- HEM = Hexane Extractable Material
- mg/kg = Milligram per kilogram.
- N = Nitrogen
- P = Phosphoruspci/g = Picocuries per gram
- pg/g = Picograms per gram
- SLERA = Screening level ecological risk assessment
- TPH = Total Petroleum Hydrocarbons

Validation Qualifiers:

- J Indicates an estimated value.
- J+ Indicates an estimated value with a positive bias.
- J- Indicates an estimated value with a negative bias.
- < Below laboratory detection limit.
- UJ Below laboratory detection limit, detection limit uncertain.
- U Radionuclide result below minimum detectable concentration

References:

Basic Environmental Company (BEC). 2007. Phase 2 Sampling and Analysis Plan to Conduct Soil Characterization, Tronox Parcels "A" and "B" Site, Henderson, Nevada (Revision 1).

TABLE C-2. BEC Tronox Parcels A-B Shallow Soil Data used in the OU-2 Refined SLERA

Nevada Environmental Response Trust Site

Henderson, Nevada

Analytic Method	Analyte	Unit	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0	
			Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample	Surface Sample
			9/6/2007	9/6/2007	9/6/2007	9/7/2007	9/7/2007	9/7/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/10/2007	9/7/2007
SW8310	Benzo(b)fluoranthene	µg/kg	<2.1	<2	<2	<2	<2 UJ	<2.1	<2	<2.1	<2	<2	<2	<2	
	Benzo(g,h,i)perylene	µg/kg	<3.2	<3.1	<3.1	<3.1	<3.1 UJ	<3.2	<3.1	<3.2	<3.2	<3.1	<3.1	<3.1	
	Benzo(k)fluoranthene	µg/kg	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	<1.4 UJ	
	Chrysene	µg/kg	<1.7	<1.6	<1.6	<1.6	<1.6 UJ	<1.7	<1.6	<1.7	<1.7	<1.6	<1.6	<1.6	
	Dibenzo(a,h)anthracene	µg/kg	<3.7	<3.7	<3.7	<3.7	<3.7 UJ	<3.8	<3.7	<3.8	<3.7	<3.7	<3.7	<3.7	
	Indeno(1,2,3-cd)pyrene	µg/kg	<1.5	<1.5	<1.5	<1.5	<1.5 UJ	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	<1.5	
	Phenanthrene	µg/kg	<1.3	<1.3	<1.3	<1.3	<1.3 UJ	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	
	Pyrene	µg/kg	<2.8 UJ	<2.7	<2.7	<2.7	<2.7 UJ	<2.8	<2.7	<2.8	<2.8	<2.8	<2.7	<2.7	

Notes:

-- = Not available
 µg/kg = Microgram per kilogram
 BEC = Basic Environmental Company
 BHC = Hexachlorocyclohexane
 CFC = Chlorofluorocarbon
 DDD = Dichlorodiphenyldichloroethane
 DDE = Dichlorodiphenyldichloroethylene
 DDT = Dichlorodiphenyltrichloroethane
 FD = Field Duplicate
 HEM = Hexane Extractable Material
 mg/kg = Milligram per kilogram.
 N = Nitrogen
 P = Phosphorus
 pci/g = Picocuries per gram
 pg/g = Picograms per gram
 SLERA = Screening level ecological risk assessment
 TPH = Total Petroleum Hydrocarbons

Validation Qualifiers:

J Indicates an estimated value.
 J+ Indicates an estimated value with a positive bias.
 J- Indicates an estimated value with a negative bias.
 < Below laboratory detection limit.
 UJ Below laboratory detection limit, detection limit uncertain.
 U Radionuclide result below minimum detectable concentration

References:

Basic Environmental Company (BEC). 2007. Phase 2 Sampling and Analysis Plan to Conduct Soil Characterization, Tronox Parcels "A" and "B" Site, Henderson, Nevada (Revision 1).

APPENDIX C-3

**CALCULATION OF DIOXIN/FURAN TEQS, POLYCYCLIC AROMATIC
HYDROCARBON MIXTURE TOTALS AND DDX TOTALS FOR USE IN THE
SLERA**

Table C-3a OU-2 Dioxin/Furan Toxic Equivalency Quotient Calculations

Table C-3b OU-2 Polycyclic Aromatic Hydrocarbon Calculations

Table C-3c OU-2 DDX Calculations

TABLE C-3a. OU-2 Dioxin/Furan Toxic Equivalency Quotient Calculations
Nevada Environmental Response Trust Site
Henderson, Nevada

Individual dioxin/furan result by location. All results in mg/kg (ND=0.5DL).

Chemical Name	SA25-0.5	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0-DUP	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0017268410	0.0000098000	0.0001200000	0.0003000000	0.0000160000	0.0003500000	0.0000520000	0.0004800000	0.0000190000	0.0000024500	0.0001700000	0.0002000000	0.0000095000	0.0001000000
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0000887250	0.0000013500	0.0000064000	0.0000140000	0.0000025000	0.0000210000	0.0000066000	0.0000200000	0.0000013000	0.0000005000	0.0000090000	0.0000130000	0.0000079000	0.0001000000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0011818170	0.0000058000	0.0000590000	0.0001600000	0.0000100000	0.0001700000	0.0000250000	0.0002000000	0.0000069000	0.0000028000	0.0000860000	0.0000990000	0.0000043500	0.0000480000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0001011110	0.0000005500	0.0000049000	0.0000130000	0.0000015500	0.0000140000	0.0000010500	0.0000130000	0.0000003350	0.0000004000	0.0000060000	0.0000084000	0.0000050000	0.0000220000
1,2,3,4,7,8-Heptachlorodibenzofuran	0.0005447000	0.0000027000	0.0000260000	0.0000590000	0.0000047000	0.0000110000	0.0000097000	0.0000730000	0.0000125000	0.0000048000	0.0000300000	0.0000320000	0.0000026500	0.0000160000
1,2,3,4,7,8-Hexachlorodibenzofuran	0.0004416210	0.0000036000	0.0000290000	0.0000720000	0.0000051000	0.0001200000	0.0000096000	0.0000740000	0.0000034000	0.0000007000	0.0000310000	0.0000350000	0.0000025500	0.0000180000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0000083690	0.0000003300	0.0000003950	0.0000010000	0.0000011000	0.0000011500	0.0000009500	0.0000010500	0.0000002650	0.0000002600	0.0000011000	0.0000004850	0.0000002500	0.0000010000
1,2,3,6,7,8-Hexachlorodibenzofuran	0.0004080130	0.0000029000	0.0000230000	0.0000570000	0.0000037000	0.0000840000	0.0000073000	0.0000560000	0.0000011500	0.0000003850	0.0000260000	0.0000290000	0.0000017500	0.0000140000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0000286540	0.0000003550	0.0000011500	0.0000048000	0.0000010500	0.0000062000	0.0000009000	0.0000044000	0.0000002850	0.0000002800	0.0000010500	0.0000027000	0.0000002350	0.0000009500
1,2,3,7,8,9-Hexachlorodibenzofuran	0.0000646210	0.0000003000	0.0000029000	0.0000071000	0.0000013500	0.0000092000	0.0000013000	0.0000052000	0.0000006000	0.0000002750	0.0000010500	0.0000036000	0.0000002050	0.0000011000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0000313720	0.0000002700	0.0000008500	0.0000041000	0.0000009000	0.0000063000	0.0000007500	0.0000031000	0.0000002150	0.0000002150	0.0000008500	0.0000011500	0.0000002050	0.0000008000
1,2,3,7,8-Pentachlorodibenzofuran	0.0002163290	0.0000028000	0.0000210000	0.0000470000	0.0000030000	0.0000840000	0.0000063000	0.0000410000	0.0000009000	0.0000004000	0.0000190000	0.0000210000	0.0000001700	0.0000099000
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0000165130	0.0000003300	0.0000010500	0.0000038000	0.0000011000	0.0000072000	0.0000009000	0.0000031000	0.0000003950	0.0000003400	0.0000010500	0.0000009000	0.0000002850	0.0000010000
2,3,4,6,7,8-Hexachlorodibenzofuran	0.0001576010	0.0000004400	0.0000054000	0.0000140000	0.0000013500	0.0000230000	0.0000013000	0.0000130000	0.0000003050	0.0000001850	0.0000063000	0.0000072000	0.0000002050	0.0000039000
2,3,4,7,8-Pentachlorodibenzofuran	0.0001399160	0.0000007000	0.0000110000	0.0000240000	0.0000011500	0.0000420000	0.0000028000	0.0000210000	0.0000004350	0.0000002350	0.0000110000	0.0000110000	0.0000001800	0.0000050000
2,3,7,8-Tetrachlorodibenzofuran	0.0001453950	0.0000016000	0.0000100000	0.0000250000	0.0000016000	0.0000430000	0.0000031000	0.0000190000	0.0000011000	0.0000002150	0.0000095000	0.0000110000	0.0000001300	0.0000056000
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0000049340	0.0000001950	0.0000001700	0.0000009500	0.0000004900	0.0000014000	0.0000004850	0.0000009500	0.0000001850	0.0000001850	0.0000004500	0.0000001850	0.0000001550	0.0000004200

To calculate avian TEQs, multiply the result of the individual chemical by the chemical-specific avian TEF, and then sum up the results (mg/kg) per location:

Chemical Name	Avian TEF (WHO 2008)	SA25-0.5	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0-DUP	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0001	0.0000001727	0.0000000010	0.0000000120	0.0000000300	0.0000000016	0.0000000350	0.0000000052	0.0000000480	0.0000000019	0.0000000002	0.0000000170	0.0000000200	0.0000000001	0.0000000100
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0001	0.0000000089	0.0000000001	0.0000000006	0.0000000014	0.0000000003	0.0000000021	0.0000000007	0.0000000020	0.0000000001	0.0000000001	0.0000000009	0.0000000013	0.0000000008	0.0000000100
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.0000118182	0.0000000580	0.0000000590	0.0000016000	0.0000001000	0.0000017000	0.0000002500	0.0000020000	0.0000006900	0.0000002800	0.0000008600	0.0000009900	0.0000000440	0.0000004800
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.001	0.0000001011	0.0000000006	0.0000000049	0.0000000130	0.0000000016	0.0000000140	0.0000000011	0.0000000130	0.0000000003	0.0000000004	0.0000000060	0.0000000084	0.0000000005	0.0000000220
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.0000054470	0.0000000270	0.0000002600	0.0000005900	0.0000000470	0.0000011000	0.0000000970	0.0000007300	0.0000000125	0.0000000048	0.0000003000	0.0000003200	0.0000000027	0.0000001600
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.0000441621	0.0000003600	0.0000029000	0.0000072000	0.0000005100	0.0000120000	0.0000096000	0.0000074000	0.0000003400	0.0000000700	0.0000031000	0.0000035000	0.0000000255	0.0000018000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.05	0.0000004185	0.0000000165	0.0000000198	0.0000000500	0.0000000550	0.0000000575	0.0000000475	0.0000000525	0.0000000133	0.0000000130	0.0000000550	0.0000000243	0.0000000125	0.0000000500
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.0000408013	0.0000002900	0.0000023000	0.0000057000	0.0000003700	0.0000084000	0.0000073000	0.0000056000	0.0000001150	0.0000000385	0.0000026000	0.0000001750	0.0000014000	
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.01	0.0000002865	0.0000000036	0.0000000115	0.0000000480	0.0000000105	0.0000000620	0.0000000090	0.0000000440	0.0000000029	0.0000000028	0.0000000105	0.0000000270	0.0000000024	0.0000000095
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.0000064621	0.0000000300	0.0000002900	0.0000007100	0.0000001350	0.0000092000	0.0000013000	0.0000052000	0.0000000600	0.0000000275	0.0000001050	0.0000003600	0.0000000205	0.0000001100
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.0000031372	0.0000000270	0.0000000850	0.0000004100	0.0000000900	0.0000006300	0.0000003100	0.0000000215	0.0000000215	0.0000000085	0.0000001150	0.0000000205	0.0000000080	0.0000000800
1,2,3,7,8-Pentachlorodibenzofuran	0.1	0.0000216329	0.0000002800	0.0000021000	0.0000047000	0.0000003000	0.0000084000	0.0000006300	0.0000041000	0.0000000900	0.0000000400	0.0000019000	0.0000021000	0.0000000170	0.0000009900
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1	0.0000165130	0.0000003300	0.0000010500	0.0000038000	0.0000011000	0.0000072000	0.0000009000	0.0000031000	0.0000003950	0.0000003400	0.0000010500	0.0000009000	0.0000002850	0.0000010000
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1	0.0000157601	0.0000000440	0.0000005400	0.0000014000	0.0000001350	0.0000023000	0.0000001300	0.0000013000	0.0000000305	0.0000000185	0.0000006300	0.0000007200	0.0000000205	0.0000003900
2,3,4,7,8-Pentachlorodibenzofuran	1	0.0001399160	0.0000007000	0.0000110000	0.0000240000	0.0000011500	0.0000420000	0.0000028000	0.0000210000	0.0000004350	0.0000002350	0.0000110000	0.0000018000	0.0000050000	
2,3,7,8-Tetrachlorodibenzofuran	1	0.0001453950	0.0000016000	0.0000100000	0.0000250000	0.0000016000	0.0000430000	0.0000031000	0.0000190000	0.0000011000	0.0000002150	0.0000095000	0.0000110000	0.0000001300	0.0000056000
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	0.0000049340	0.0000001950	0.0000001700	0.0000009500	0.0000004900	0.0000014000	0.0000004850	0.0000009500	0.0000001850	0.0000001850	0.0000004500	0.0000001850	0.0000001550	0.0000004200
TEQ Avian Sum by Location:		0.0004569665	0.0000039627	0.0000313338	0.0000762024	0.0000060959	0.0001292206	0.0000103504	0.0000661695	0.0000028720	0.0000012403	0.0000316694	0.0000341710	0.0000008947	0.0000175315

To calculate mammal TEQs, multiply the result of the individual chemical by the chemical-specific mammal TEF, and then sum up the results (mg/kg) per location:

Chemical Name	Mammal TEF (WHO 2008)	SA25-0.5	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0-DUP	TSB-AR-07-0	TSB-AR-08-0	TSB-AR-10-0	TSB-AR-11-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0003	0.0000005181	0.0000000029	0.0000000360	0.0000000900	0.0000000048	0.0000001050	0.0000000156	0.0000001440	0.0000000057	0.0000000007	0.0000000510	0.0000000600	0.0000000003	0.0000000300
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0003	0.0000000266	0.0000000004	0.0000000019	0.0000000042	0.0000000008	0.0000000063	0.0000000020	0.0000000060	0.0000000004	0.0000000002	0.0000000027	0.0000000039	0.0000000024	0.0000000300
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.0000118182	0.0000000580	0.0000000590	0.0000016000	0.0000001000	0.0000017000	0.0000002500	0.0000020000	0.0000006900	0.0000002800	0.0000008600	0.0000009900	0.0000000440	0.0000004800
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.0000001011	0.0000000005	0.0000000049	0.0000000130	0.0000000015	0.0000000140	0.0000000010	0.0000000130	0.0000000003	0.0000000004	0.0000000060	0.0000000084	0.0000000005	0.0000000220
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.0000054470	0.0000000270	0.0000002600	0.0000005900	0.0000000470	0.0000011000	0.0000000970	0.0000007300	0.0000000125	0.0000000048	0.0000003000	0.0000003200	0.0000000027	0.0000001600
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.0000441621	0.0000003600	0.0000029000	0.0000072000	0.0000005100	0.0000120000	0.0000096000	0.0000074000	0.0000003400	0.0000000700	0.0000031000	0.0000035000	0.0000000255	0.0

TABLE C-3a. OU-2 Dioxin/Furan Toxic Equivalency Quotient Calculations
Nevada Environmental Response Trust Site
Henderson, Nevada

Individual dioxin/furan result by location. All results in mg/kg (ND=0.5DL).

Chemical Name	TSB-AR-12-0	TSB-AR-13-0	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0000910000	0.0000650000	0.0000550000	0.0001000000	0.0001800000	0.0001800000	0.0006900000	0.0018000000	0.0003300000	0.0012000000	0.0001100000	0.0002000000	0.0003800000	0.0003600000
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0000062000	0.0000760000	0.0000940000	0.0000730000	0.0001000000	0.0001500000	0.0000410000	0.0001700000	0.0000210000	0.0001100000	0.0000600000	0.0000150000	0.0000120000	0.0000130000
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.0000410000	0.0000320000	0.0000270000	0.0000500000	0.0000810000	0.0000920000	0.0003200000	0.0007400000	0.0001700000	0.0006000000	0.0000600000	0.0000970000	0.0001600000	0.0001700000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.0000350000	0.0000130000	0.0000075000	0.0000430000	0.0000650000	0.0000890000	0.0000270000	0.0000660000	0.0000140000	0.0000520000	0.0000660000	0.0000940000	0.0001300000	0.0001400000
1,2,3,4,7,8,9-Hexachlorodibenzofuran	0.0000140000	0.0000120000	0.0000049000	0.0000160000	0.0000280000	0.0000490000	0.0001700000	0.0003000000	0.0000680000	0.0002200000	0.0000290000	0.0000420000	0.0000710000	0.0000700000
1,2,3,4,7,8-Hexachlorodibenzofuran	0.0000150000	0.0000150000	0.0000055000	0.0000190000	0.0000300000	0.0000540000	0.0001500000	0.0003100000	0.0000820000	0.0002500000	0.0000360000	0.0000470000	0.0000780000	0.0000820000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.0000021500	0.0000009500	0.0000020000	0.0000024000	0.0000049000	0.0000085000	0.0000430000	0.0000082000	0.0000012500	0.0000069000	0.0000075000	0.0000080000	0.0000085000	0.0000110000
1,2,3,6,7,8-Hexachlorodibenzofuran	0.0000110000	0.0000110000	0.0000034500	0.0000160000	0.0000230000	0.0000470000	0.0001300000	0.0002500000	0.0000680000	0.0002000000	0.0000310000	0.0000410000	0.0000640000	0.0000670000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.0000055000	0.0000090000	0.0000018500	0.0000080000	0.0000095000	0.0000450000	0.0000110000	0.0000190000	0.0000630000	0.0000160000	0.0000260000	0.0000350000	0.0000440000	0.0000580000
1,2,3,7,8,9-Hexachlorodibenzofuran	0.0000080000	0.0000012000	0.0000016000	0.0000090000	0.0000031000	0.0000085000	0.0000220000	0.0000380000	0.0000091000	0.0000240000	0.0000490000	0.0000520000	0.0000960000	0.0000840000
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.0000040500	0.0000075000	0.0000025500	0.0000065000	0.0000100000	0.0000310000	0.0000076000	0.0000160000	0.0000410000	0.0000100000	0.0000080000	0.0000290000	0.0000340000	0.0000480000
1,2,3,7,8-Pentachlorodibenzofuran	0.0000079000	0.0000110000	0.0000037500	0.0000120000	0.0000180000	0.0000520000	0.0001200000	0.0002200000	0.0000650000	0.0001600000	0.0000330000	0.0000360000	0.0000590000	0.0000620000
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	0.0000037500	0.0000095000	0.0000030500	0.0000070000	0.0000090000	0.0000410000	0.0000800000	0.0001600000	0.0000400000	0.0000110000	0.0000011000	0.0000032000	0.0000490000	0.0000420000
2,3,4,6,7,8-Hexachlorodibenzofuran	0.0000012000	0.0000036000	0.0000012500	0.0000033000	0.0000050000	0.0000130000	0.0000340000	0.0000560000	0.0000170000	0.0000520000	0.0000750000	0.0000980000	0.0000160000	0.0000170000
2,3,4,7,8-Pentachlorodibenzofuran	0.0000038000	0.0000049000	0.0000020500	0.0000061000	0.0000083000	0.0000280000	0.0000600000	0.0001100000	0.0000340000	0.0000760000	0.0000160000	0.0000180000	0.0000290000	0.0000310000
2,3,7,8-Tetrachlorodibenzofuran	0.0000035000	0.0000069000	0.0000020500	0.0000056000	0.0000074000	0.0000310000	0.0000690000	0.0001300000	0.0000380000	0.0000810000	0.0000170000	0.0000190000	0.0000330000	0.0000320000
2,3,7,8-Tetrachlorodibenzo-p-dioxin	0.0000018000	0.0000040500	0.0000013500	0.0000018000	0.0000016000	0.0000097000	0.0000240000	0.0000460000	0.0000099000	0.0000250000	0.0000110000	0.0000088000	0.0000120000	0.0000100000

To calculate avian TEQs, multiply the result of the individual chemical by the chemical-specific avian TEF, and then sum up the results (mg/kg) per location:

Chemical Name	Avian TEF (WHO 2008)	TSB-AR-12-0	TSB-AR-13-0	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0001	0.0000000091	0.0000000065	0.0000000065	0.0000000100	0.0000000180	0.0000000180	0.0000000690	0.0000001800	0.0000000330	0.0000001200	0.0000000110	0.0000000200	0.0000000380	0.0000000360
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0001	0.0000000006	0.0000000076	0.0000000009	0.0000000007	0.0000000010	0.0000000015	0.0000000041	0.0000000170	0.0000000021	0.0000000110	0.0000000006	0.0000000015	0.0000000012	0.0000000013
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.0000004100	0.0000003200	0.0000002700	0.0000005000	0.0000008100	0.0000009200	0.0000032000	0.0000074000	0.0000017000	0.0000060000	0.0000060000	0.0000097000	0.0000160000	0.0000170000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.001	0.0000000035	0.0000000130	0.0000000008	0.0000000043	0.0000000065	0.0000000089	0.0000000270	0.0000000660	0.0000000140	0.0000000520	0.0000000066	0.0000000094	0.0000000130	0.0000000140
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.0000001400	0.0000001200	0.0000000049	0.0000001600	0.0000002800	0.0000004900	0.0000017000	0.0000030000	0.0000006800	0.0000022000	0.0000002900	0.0000004200	0.0000007100	0.0000007000
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.0000015000	0.0000015000	0.0000005500	0.0000019000	0.0000030000	0.0000054000	0.0000150000	0.0000310000	0.0000082000	0.0000250000	0.0000036000	0.0000047000	0.0000078000	0.0000082000
1,2,3,4,7,8-Hexachlorodibenzo-p-dioxin	0.05	0.0000000108	0.0000000475	0.0000000100	0.0000000120	0.0000000245	0.0000000425	0.0000002150	0.0000004100	0.0000000625	0.0000003450	0.0000000375	0.0000000400	0.0000000425	0.0000000550
1,2,3,6,7,8-Hexachlorodibenzofuran	0.1	0.0000011000	0.0000011000	0.0000003450	0.0000016000	0.0000023000	0.0000047000	0.0000130000	0.0000250000	0.0000068000	0.0000200000	0.0000031000	0.0000041000	0.0000064000	0.0000067000
1,2,3,6,7,8-Hexachlorodibenzo-p-dioxin	0.01	0.0000000055	0.0000000090	0.0000000019	0.0000000080	0.0000000095	0.0000000450	0.0000001100	0.0000001900	0.0000000630	0.0000001600	0.0000000260	0.0000000350	0.0000000440	0.0000000580
1,2,3,7,8,9-Hexachlorodibenzofuran	0.1	0.0000000800	0.0000001200	0.0000000160	0.0000000900	0.0000003100	0.0000008500	0.0000022000	0.0000038000	0.0000009100	0.0000024000	0.0000004900	0.0000005200	0.0000009600	0.0000008400
1,2,3,7,8,9-Hexachlorodibenzo-p-dioxin	0.1	0.0000000405	0.0000000750	0.0000000255	0.0000000650	0.0000001000	0.0000003100	0.0000007600	0.0000016000	0.0000004100	0.0000010000	0.0000000800	0.0000002900	0.0000003400	0.0000004800
1,2,3,7,8-Pentachlorodibenzofuran	0.1	0.0000007900	0.0000011000	0.0000003750	0.0000012000	0.0000000095	0.0000005200	0.0000120000	0.0000220000	0.0000065000	0.0000160000	0.0000033000	0.0000009000	0.0000009000	0.0000062000
1,2,3,7,8-Pentachlorodibenzo-p-dioxin	1	0.0000003750	0.0000009500	0.0000003050	0.0000007000	0.0000009000	0.0000041000	0.0000080000	0.0000160000	0.0000040000	0.0000110000	0.0000011000	0.0000032000	0.0000049000	0.0000042000
2,3,4,6,7,8-Hexachlorodibenzofuran	0.1	0.0000001200	0.0000003600	0.0000000125	0.0000003300	0.0000005000	0.0000013000	0.0000034000	0.0000017000	0.0000052000	0.0000007500	0.0000009800	0.0000016000	0.0000017000	0.0000017000
2,3,4,7,8-Pentachlorodibenzofuran	1	0.0000038000	0.0000049000	0.0000020500	0.0000061000	0.0000083000	0.0000280000	0.0000600000	0.0001100000	0.0000340000	0.0000760000	0.0000160000	0.0000180000	0.0000290000	0.0000310000
2,3,7,8-Tetrachlorodibenzofuran	1	0.0000035000	0.0000069000	0.0000020500	0.0000056000	0.0000074000	0.0000310000	0.0000690000	0.0001300000	0.0000380000	0.0000810000	0.0000170000	0.0000190000	0.0000330000	0.0000320000
2,3,7,8-Tetrachlorodibenzo-p-dioxin	1	0.0000018000	0.0000040500	0.0000013500	0.0000018000	0.0000016000	0.0000097000	0.0000240000	0.0000460000	0.0000099000	0.0000250000	0.0000011000	0.0000088000	0.0000120000	0.0000100000
TEQ Avian Sum by Location:		0.0000120650	0.0000179336	0.0000010770	0.0000184600	0.0000259195	0.0000833559	0.0001910851	0.0003608630	0.0001040646	0.0002489880	0.0000474917	0.0000567659	0.0000935487	0.0000948843

To calculate mammal TEQs, multiply the result of the individual chemical by the chemical-specific mammal TEF, and then sum up the results (mg/kg) per location:

Chemical Name	Mammal TEF (WHO 2008)	TSB-AR-12-0	TSB-AR-13-0	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0
1,2,3,4,5,6,7,8-Octachlorodibenzofuran	0.0003	0.0000000273	0.0000000195	0.0000000017	0.0000000300	0.0000000540	0.0000000540	0.0000002070	0.0000005400	0.0000000990	0.0000003600	0.0000000330	0.0000000600	0.0000001140	0.0000001080
1,2,3,4,5,6,7,8-Octachlorodibenzo-p-dioxin	0.0003	0.0000000019	0.0000000228	0.0000000028	0.0000000022	0.0000000030	0.0000000045	0.0000000123	0.0000000510	0.0000000063	0.0000000330	0.0000000018	0.0000000045	0.0000000036	0.0000000039
1,2,3,4,6,7,8-Heptachlorodibenzofuran	0.01	0.0000004100	0.0000003200	0.0000000270	0.0000005000	0.0000008100	0.0000009200	0.0000032000	0.0000074000	0.0000017000	0.0000060000	0.0000060000	0.0000097000	0.0000160000	0.0000170000
1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	0.01	0.0000000350	0.0000000130	0.0000000075	0.0000000430	0.0000000650	0.0000000890	0.0000002700	0.0000006600	0.0000001400	0.0000005200	0.0000000660	0.0000000094	0.0000001300	0.0000001400
1,2,3,4,7,8,9-Heptachlorodibenzofuran	0.01	0.0000001400	0.0000001200	0.0000000049	0.0000001600	0.0000002800	0.0000004900	0.0000017000	0.0000030000	0.0000006800	0.0000022000	0.0000002900	0.0000004200	0.0000007100	0.0000007000
1,2,3,4,7,8-Hexachlorodibenzofuran	0.1	0.0000015000	0.0000015000	0.0000005500	0.0000019000	0.0000030000	0.0000054000	0.0000150000	0.0000310000	0.0000082000	0.0000250000	0.0000036000	0.		

TABLE C-3b. OU-2 PAH Calculations
Nevada Environmental Response Trust Site
Henderson, Nevada

All results in mg/kg (ND=0.5DL)

Individual PAH	PAH Type	PC-70_06/23/1999	SA24-0.5	SA25-0.5	SA26-0.5	SA27-0.5	TSB-AJ-01-0	TSB-AJ-02-0	TSB-AJ-02-0-DUP	TSB-AJ-03-0	TSB-AR-01-0	TSB-AR-01-0-DUP	TSB-AR-02-0	TSB-AR-04-0	TSB-AR-05-0	TSB-AR-06-0	TSB-AR-06-0-DUP	TSB-AR-07-0	TSB-AR-08-0
Acenaphthene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.28 1	0.2 1	0.01 0	0.01 0	0.0105 0	0.0105 0	0.01 0	0.01 0	0.01 0	0.075 1	0.14 1	0.0105 0	0.01 0
Acenaphthylene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.008 0	0.008 0	0.008 0	0.008 0	0.0085 0	0.0085 0	0.008 0	0.008 0	0.008 0	0.008 0	0.0085 0	0.0085 0	0.008 0
Anthracene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.000495 0	0.00049 0	0.00049 0	0.000495 0	0.0005 0	0.0005 0	0.000495 0	0.000495 0	0.000495 0	0.0005 0	0.0005 0	0.0005 0	0.000495 0
Fluorene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0
Methylnaphthalene, 2-	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0
Naphthalene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0
Phenanthrene	LMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0
Benzo(a)anthracene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.00105 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.00105 0	0.001 0
Benzo(a)pyrene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00105 0	0.00105 0	0.00105 0	0.00105 0	0.0011 0	0.0011 0	0.00105 0	0.00105 0	0.00105 0	0.0011 0	0.0011 0	0.0011 0	0.00105 0
Benzo(b)fluoranthene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.00105 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.00105 0	0.001 0
Benzo(g,h,i)perylene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00155 0	0.00155 0	0.00155 0	0.00155 0	0.0016 0	0.00165 0	0.00155 0	0.00155 0	0.00155 0	0.0016 0	0.0016 0	0.0016 0	0.00155 0
Benzo(k)fluoranthene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.00075 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0
Chrysene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.0008 0	0.0008 0	0.0008 0	0.0008 0	0.00085 0	0.00085 0	0.0008 0	0.0008 0	0.00085 0	0.00085 0	0.00085 0	0.00085 0	0.0008 0
Dibenz(a,h)anthracene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.0019 0	0.00195 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.0019 0	0.00185 0
Fluoranthene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0
Indeno(1,2,3-cd)pyrene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0
Pyrene	HMW	0.0175 0	0.19 0	0.185 0	0.00355 0	0.175 0	0.00135 0	0.00135 0	0.00135 0	0.00135 0	0.0014 0	0.00145 0	0.00135 0	0.00135 0	0.00135 0	0.0014 0	0.0014 0	0.0014 0	0.00135 0
tPAH Sum:		0.2975 0	3.23 0	3.145 0	0.06035 0	2.975 0	0.367195 1	0.28719 1	0.09719 0	0.097195 0	0.10055 0	0.1567 1	0.097195 0	0.097195 0	0.097295 0	0.1624 1	0.23005 1	0.10055 0	0.097195 0
HMW PAH Sum:		0.175 0	1.9 0	1.85 0	0.0355 0	1.75 0	0.02705 0	0.02705 0	0.02705 0	0.02705 0	0.0279 0	0.08255 1	0.02705 0	0.02705 0	0.02715 0	0.02725 0	0.0279 0	0.0279 0	0.02705 0
LMW PAHs Sum:		0.1225 0	1.33 0	1.295 0	0.02485 0	1.225 0	0.340145 1	0.26014 1	0.07014 0	0.070145 0	0.07265 0	0.07415 0	0.070145 0	0.070145 0	0.070145 0	0.13515 1	0.20215 1	0.07265 0	0.070145 0

Notes:

Detection status indicated by 0 (non-detect) and 1 (detect). Non-detects represented as 1/2 x SQL, with the exception of the four ENSR (2007) samples, which use 1/2 x PQL because SQLs were not available at the time of this analysis.

- DL = Detection limit
- FD = Field duplicate
- HMW = High molecular weight
- LMW = Low molecular weight
- mg/kg = Milligram per kilogram
- ND = Non-detects
- PAH = Polycyclic aromatic hydrocarbons
- PQL = Practical quantitation limit
- SQL = Sample quantitation limit
- tPAH = Total PAHs

TABLE C-3b. OU-2 PAH Calculations
Nevada Environmental Response Trust Site
Henderson, Nevada

All results in mg/kg (ND=0.5)

Individual PAH	TSB-AR-10-0	TSB-AR-11-0	TSB-AR-11-0-DUP	TSB-AR-12-0	TSB-AR-13-0	TSB-AR-14-0	TSB-AR-3-0	TSB-AR-9-0	TSB-BJ-01-0	TSB-BJ-02-0	TSB-BJ-06-0	TSB-BR-02-0	TSB-BR-03-0	TSB-BR-04-0	TSB-BR-04-0 (FD)	TSB-BR-05-0	TSB-BR-06-0
Acenaphthene	0.01 0	0.01 0	0.01 0	0.01 0	0.01 0	0.0105 0	0.01 0	0.4 1	0.01 0	0.01 0	0.0105 0	0.01 0	0.0105 0	0.01 0	0.01 0	0.01 0	0.01 0
Acenaphthylene	0.0085 0	0.008 0	0.008 0	0.008 0	0.008 0	0.0085 0	0.008 0	0.008 0	0.008 0	0.008 0	0.0085 0	0.008 0	0.0085 0	0.008 0	0.008 0	0.008 0	0.008 0
Anthracene	0.0005 0	0.0005 0	0.0005 0	0.000495 0	0.000495 0	0.0005 0	0.00049 0	0.000495 0	0.00049 0	0.00049 0	0.0005 0	0.000495 0	0.0005 0	0.0005 0	0.000495 0	0.00049 0	0.00049 0
Fluorene	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0
Methylnaphthalene, 2-	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0
Naphthalene	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0
Phenanthrene	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0	0.00065 0
Benzo(a)anthracene	0.001 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.001 0	0.00105 0	0.00105 0	0.001 0	0.001 0	0.001 0
Benzo(a)pyrene	0.0011 0	0.0011 0	0.0011 0	0.00105 0	0.00105 0	0.0011 0	0.00105 0	0.00105 0	0.00105 0	0.00105 0	0.0011 0	0.00105 0	0.0011 0	0.0011 0	0.00105 0	0.00105 0	0.00105 0
Benzo(b)fluoranthene	0.001 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.001 0	0.001 0	0.001 0	0.001 0	0.00105 0	0.001 0	0.00105 0	0.001 0	0.001 0	0.001 0	0.001 0
Benzo(g,h,i)perylene	0.0016 0	0.0016 0	0.0016 0	0.00155 0	0.00155 0	0.0016 0	0.00155 0	0.00155 0	0.00155 0	0.00155 0	0.0016 0	0.00155 0	0.0016 0	0.0016 0	0.00155 0	0.00155 0	0.00155 0
Benzo(k)fluoranthene	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0	0.0007 0
Chrysene	0.00085 0	0.00085 0	0.00085 0	0.0008 0	0.0008 0	0.00085 0	0.0008 0	0.0008 0	0.0008 0	0.0008 0	0.00085 0	0.0008 0	0.00085 0	0.00085 0	0.0008 0	0.0008 0	0.0008 0
Dibenz(a,h)anthracene	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0	0.0019 0	0.00185 0	0.0019 0	0.00185 0	0.00185 0	0.00185 0	0.00185 0
Fluoranthene	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.017 0	0.017 0	0.017 0	0.0175 0	0.017 0	0.0175 0	0.0175 0	0.017 0	0.017 0	0.017 0
Indeno(1,2,3-cd)pyrene	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0	0.00075 0
Pyrene	0.0014 0	0.0014 0	0.0014 0	0.0014 0	0.00135 0	0.0014 0	0.00135 0	0.00135 0	0.00135 0	0.00135 0	0.0014 0	0.00135 0	0.0014 0	0.0014 0	0.0014 0	0.00135 0	0.00135 0
tPAH Sum:	0.0999 0	0.0994 0	0.0974 0	0.097245 0	0.097195 0	0.1005 0	0.09719 0	0.487195 1	0.09719 0	0.09719 0	0.10055 0	0.097195 0	0.10055 0	0.0994 0	0.097245 0	0.09719 0	0.09719 0
HMW PAH Sum:	0.02775 0	0.02775 0	0.02725 0	0.0271 0	0.02705 0	0.02785 0	0.02705 0	0.02705 0	0.02705 0	0.02705 0	0.0279 0	0.02705 0	0.0279 0	0.02775 0	0.0271 0	0.02705 0	0.02705 0
LMW PAHs Sum:	0.07215 0	0.07165 0	0.07015 0	0.070145 0	0.070145 0	0.07265 0	0.07014 0	0.460145 1	0.07014 0	0.07014 0	0.07265 0	0.070145 0	0.07265 0	0.07165 0	0.070145 0	0.07014 0	0.07014 0

TABLE C-3c. OU-2 DDX Calculations
Nevada Environmental Response Trust Site
Henderson, Nevada

Location	Sample ID	2,4-DDD	4,4'-DDD	2,4-DDE	4,4'-DDE	4,4'-DDT	DDx
PC-70	PC-70_06/23/1999	--	0.000205 0	--	0.000205 0	0.000205 0	= 0.000615 0
SA24	SA24-0.5	--	0.001 0	--	0.001 0	0.001 0	= 0.003 0
SA25	SA25-0.5	--	0.00095 0	--	0.015 1	0.01 1	= 0.02595 1
SA26	SA26-0.5	--	0.0009 0	--	0.0009 0	0.0009 0	= 0.0027 0
SA27	SA27-0.5	--	0.0009 0	--	0.0009 0	0.0009 0	= 0.0027 0
TSB-AJ-01	TSB-AJ-01-0	0.00006 0	0.00008 0	0.000046 0	0.00013 0	0.00022 0	= 0.000536 0
TSB-AJ-02	TSB-AJ-02-0	0.000055 0	0.00008 0	0.0022 1	0.0044 1	0.0036 1	= 0.010335 1
TSB-AJ-02	TSB-AJ-02-0-DUP	0.000055 0	0.00008 0	0.0035 1	0.0082 1	0.0073 1	= 0.019135 1
TSB-AJ-03	TSB-AJ-03-0	0.00006 0	0.00008 0	0.0000455 0	0.0039 1	0.0023 1	= 0.0063855 1
TSB-AR-01	TSB-AR-01-0	0.00006 0	0.000085 0	0.000047 0	0.00013 0	0.000225 0	= 0.000547 0
TSB-AR-01	TSB-AR-01-0-DUP	0.00006 0	0.000085 0	0.000048 0	0.000135 0	0.00023 0	= 0.000558 0
TSB-AR-02	TSB-AR-02-0	0.00006 0	0.00008 0	0.000046 0	0.0035 1	0.00022 0	= 0.003906 1
TSB-AR-04	TSB-AR-04-0	0.00006 0	0.00008 0	0.000046 0	0.00013 0	0.00022 0	= 0.000536 0
TSB-AR-05	TSB-AR-05-0	0.00006 0	0.000085 0	0.000046 0	0.00013 0	0.00022 0	= 0.000541 0
TSB-AR-06	TSB-AR-06-0	0.00006 0	0.000085 0	0.000046 0	0.00013 0	0.00022 0	= 0.000541 0
TSB-AR-06	TSB-AR-06-0-DUP	0.00006 0	0.000085 0	0.0000465 0	0.00013 0	0.000225 0	= 0.0005465 0
TSB-AR-07	TSB-AR-07-0	0.00006 0	0.000085 0	0.000047 0	0.000135 0	0.000225 0	= 0.000552 0
TSB-AR-08	TSB-AR-08-0	0.00006 0	0.00008 0	0.000046 0	0.00013 0	0.00022 0	= 0.000536 0
TSB-AR-10	TSB-AR-10-0	0.00006 0	0.000085 0	0.0000465 0	0.00013 0	0.00022 0	= 0.0005415 0
TSB-AR-11	TSB-AR-11-0	0.00006 0	0.000085 0	0.0000465 0	0.00013 0	0.00022 0	= 0.0005415 0
TSB-AR-11	TSB-AR-11-0-DUP	0.00006 0	0.000085 0	0.000046 0	0.00013 0	0.00022 0	= 0.000541 0
TSB-AR-12	TSB-AR-12-0	0.00006 0	0.000085 0	0.0074 1	0.0046 1	0.00022 0	= 0.012365 1
TSB-AR-13	TSB-AR-13-0	0.00006 0	0.00008 0	0.000046 0	0.00013 0	0.00022 0	= 0.000536 0
TSB-AR-14	TSB-AR-14-0	0.00006 0	0.000085 0	0.0000465 0	0.00013 0	0.00022 0	= 0.0005415 0
TSB-AR-3	TSB-AR-3-0	0.000055 0	0.00008 0	0.0000455 0	0.00013 0	0.000215 0	= 0.0005255 0
TSB-AR-9	TSB-AR-9-0	0.00006 0	0.00008 0	0.000046 0	0.002 1	0.00022 0	= 0.002406 1
TSB-BJ-01	TSB-BJ-01-0	0.000055 0	0.00008 0	0.0000455 0	0.002 1	0.000215 0	= 0.0023955 1
TSB-BJ-02	TSB-BJ-02-0	0.000055 0	0.00008 0	0.0034 1	0.0084 1	0.0032 1	= 0.015135 1
TSB-BJ-06	TSB-BJ-06-0	0.00006 0	0.000085 0	0.0023 1	0.014 1	0.012 1	= 0.028445 1
TSB-BR-02	TSB-BR-02-0	0.00006 0	0.00008 0	0.0000455 0	0.00013 0	0.00022 0	= 0.0005355 0
TSB-BR-03	TSB-BR-03-0	0.00006 0	0.000085 0	0.0000475 0	0.0079 1	0.0035 1	= 0.0115925 1
TSB-BR-04	TSB-BR-04-0	0.00006 0	0.000085 0	0.0000465 0	0.00013 0	0.00022 0	= 0.0005415 0
TSB-BR-04	TSB-BR-04-0 (FD)	0.00006 0	0.000085 0	0.000046 0	0.0018 1	0.00022 0	= 0.002211 1
TSB-BR-05	TSB-BR-05-0	0.000055 0	0.00008 0	0.0000455 0	0.00013 0	0.000215 0	= 0.0005255 0
TSB-BR-06	TSB-BR-06-0	0.000055 0	0.00008 0	0.0000455 0	0.0024 1	0.000215 0	= 0.0027955 1

Notes:

All concentrations are in mg/kg.

Detection status indicated by 0 (non-detect) and 1 (detect). Non-detects represented as 1/2 x SQL.

FD = Field duplicate

DDD = Dichlorodiphenyldichloroethane

DDE = Dichlorodiphenyldichloroethylene

DDT = Dichlorodiphenyltrichloroethane

DDx = Sum of all DDT isomers and metabolites

Dup = Duplicate

mg/kg = Milligram per kilogram

SQL = sample quantitation limit

APPENDIX D
BACKGROUND DATA

- D-1 Background Dataset used for the OU-2 SLERA
- D-2 Background Statistical Evaluation

APPENDIX D-1
Background Data Used for the OU-2 Refined SLERA

Table D-1 Background Data Used for the OU-2 Refined SLERA

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Actinium-227	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Actinium-227	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Actinium-227	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Actinium-227	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Actinium-227	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Actinium-227	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Actinium-227	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Actinium-227	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Actinium-227	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Actinium-227	0.34	U	pCi/g	0.44	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Actinium-227	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Actinium-227	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Actinium-227	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Actinium-227	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Actinium-227	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Actinium-227	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Actinium-227	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Actinium-227	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Actinium-227	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Actinium-227	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Actinium-227	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Actinium-227	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Actinium-227	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Actinium-227	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Actinium-227	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Actinium-227	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Actinium-227	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Actinium-227	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Actinium-227	-0.11	U	pCi/g	0.36	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Actinium-227	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Actinium-227	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Actinium-227	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Actinium-227	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Actinium-227	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Actinium-227	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Actinium-227	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Actinium-227	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Actinium-227	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Actinium-227	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Actinium-227	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Actinium-227	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Actinium-227	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Actinium-227	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Actinium-227	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Actinium-227	-0.13	U	pCi/g	0.41	0.71	0.71	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Actinium-227	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Actinium-227	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Actinium-227	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Actinium-227	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Actinium-227	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Actinium-227	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Actinium-227	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Actinium-227	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Actinium-227	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Actinium-227	-0.02	U	pCi/g	0.42	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Actinium-227	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Actinium-227	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Actinium-227	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Actinium-227	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Actinium-227	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Actinium-227	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Actinium-227	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Actinium-227	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Actinium-227	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Actinium-227	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Actinium-227	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Actinium-227	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Actinium-227	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Actinium-227	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Actinium-227	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Actinium-227	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Actinium-227	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Actinium-227	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Actinium-227	-0.27	U	pCi/g	0.45	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Actinium-227	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Actinium-227	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Actinium-227	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Actinium-227	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Actinium-227	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Actinium-227	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Actinium-227	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Actinium-227	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Actinium-227	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Actinium-227	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Actinium-227	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Actinium-227	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Actinium-227	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Actinium-227	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Actinium-227	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Actinium-227	-0.15	U	pCi/g	0.42	0.72	0.72	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Actinium-227	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Actinium-227	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Actinium-227	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Actinium-227	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Actinium-227	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Actinium-228	2.01		pCi/g	0.75	0.37	0.37	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Actinium-228	2.19		pCi/g	0.73	0.36	0.36	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Actinium-228	1.74		pCi/g	0.66	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Actinium-228	2.53		pCi/g	0.83	0.44	0.44	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Actinium-228	1.96		pCi/g	0.72	0.46	0.46	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Actinium-228	2.05		pCi/g	0.71	0.38	0.38	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Actinium-228	2.2		pCi/g	0.8	0.57	0.57	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Actinium-228	2.66		pCi/g	0.85	0.33	0.33	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Actinium-228	1.72		pCi/g	0.63	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Actinium-228	1.98		pCi/g	0.71	0.36	0.36	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Actinium-228	1.84		pCi/g	0.69	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Actinium-228	1.9		pCi/g	0.66	0.37	0.37	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Actinium-228	2.05		pCi/g	0.69	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Actinium-228	2.28		pCi/g	0.79	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Actinium-228	2		pCi/g	0.69	0.37	0.37	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Actinium-228	1.65		pCi/g	0.63	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Actinium-228	2.35		pCi/g	0.79	0.33	0.33	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Actinium-228	2.32		pCi/g	0.77	0.33	0.33	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Actinium-228	2.2		pCi/g	0.75	0.43	0.43	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Actinium-228	1.67		pCi/g	0.69	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Actinium-228	2		pCi/g	0.7	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Actinium-228	1.37		pCi/g	0.62	0.43	0.43	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Actinium-228	2.04		pCi/g	0.79	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Actinium-228	1.51		pCi/g	0.58	0.29	0.29	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Actinium-228	2.05		pCi/g	0.76	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Actinium-228	1.71		pCi/g	0.66	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Actinium-228	1.71		pCi/g	0.66	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Actinium-228	1.36		pCi/g	0.51	0.4	0.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Actinium-228	1.24		pCi/g	0.51	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Actinium-228	1.48		pCi/g	0.54	0.32	0.32	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Actinium-228	1.79		pCi/g	0.64	0.43	0.43	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Actinium-228	2.04		pCi/g	0.7	0.36	0.36	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Actinium-228	1.55		pCi/g	0.6	0.32	0.32	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Actinium-228	2.03		pCi/g	0.7	0.36	0.36	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Actinium-228	1.32		pCi/g	0.53	0.33	0.33	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Actinium-228	1.94		pCi/g	0.62	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Actinium-228	1.3		pCi/g	0.55	0.36	0.36	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Actinium-228	1.76		pCi/g	0.66	0.41	0.41	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Actinium-228	2.28		pCi/g	0.77	0.43	0.43	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Actinium-228	2.29		pCi/g	0.72	0.37	0.37	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Actinium-228	2.32		pCi/g	0.74	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Actinium-228	2.43		pCi/g	0.77	0.3	0.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Actinium-228	1.81		pCi/g	0.68	0.37	0.37	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Actinium-228	2.27		pCi/g	0.73	0.34	0.34	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Actinium-228	2.17		pCi/g	0.74	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Actinium-228	2.33		pCi/g	0.79	0.4	0.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Actinium-228	2.01		pCi/g	0.75	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Actinium-228	1.68		pCi/g	0.66	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Actinium-228	2.12		pCi/g	0.81	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Actinium-228	3.4		pCi/g	1.1	0.5	0.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Actinium-228	1.78		pCi/g	0.65	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Actinium-228	1.71		pCi/g	0.59	0.39	0.39	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Actinium-228	1.71		pCi/g	0.63	0.34	0.34	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Actinium-228	2.09		pCi/g	0.74	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Actinium-228	1.64		pCi/g	0.65	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Actinium-228	1.69		pCi/g	0.65	0.37	0.37	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Actinium-228	1.59		pCi/g	0.58	0.31	0.31	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Actinium-228	1.7		pCi/g	0.63	0.38	0.38	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Actinium-228	1.18		pCi/g	0.53	0.41	0.41	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Actinium-228	1.77		pCi/g	0.6	0.45	0.45	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Actinium-228	1.55		pCi/g	0.57	0.32	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Actinium-228	1.61		pCi/g	0.57	0.34	0.34	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Actinium-228	1.42		pCi/g	0.57	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Actinium-228	1.76		pCi/g	0.59	0.32	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Actinium-228	1.24		pCi/g	0.6	0.36	0.36	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Actinium-228	1.55		pCi/g	0.61	0.41	0.41	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Actinium-228	1.68		pCi/g	0.62	0.36	0.36	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Actinium-228	1.39		pCi/g	0.54	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Actinium-228	2.05		pCi/g	0.73	0.31	0.31	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Actinium-228	2.56		pCi/g	0.77	0.34	0.34	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Actinium-228	2.08		pCi/g	0.71	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Actinium-228	1.91		pCi/g	0.62	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Actinium-228	1.47		pCi/g	0.59	0.38	0.38	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Actinium-228	2.52		pCi/g	0.81	0.44	0.44	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Actinium-228	1.8		pCi/g	0.68	0.4	0.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Actinium-228	2.24		pCi/g	0.71	0.37	0.37	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Actinium-228	1.8		pCi/g	0.69	0.4	0.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Actinium-228	1.56		pCi/g	0.59	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Actinium-228	1.61		pCi/g	0.64	0.37	0.37	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Actinium-228	1.51		pCi/g	0.6	0.32	0.32	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Actinium-228	1.48		pCi/g	0.55	0.31	0.31	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Actinium-228	2.04		pCi/g	0.73	0.33	0.33	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Actinium-228	2		pCi/g	0.75	0.41	0.41	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Actinium-228	1.71		pCi/g	0.6	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Actinium-228	1.8		pCi/g	0.62	0.4	0.4	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Actinium-228	1.6		pCi/g	0.56	0.31	0.31	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Actinium-228	2.31		pCi/g	0.77	0.34	0.34	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Actinium-228	2.04		pCi/g	0.67	0.32	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Actinium-228	1.32		pCi/g	0.61	0.4	0.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Actinium-228	1.64		pCi/g	0.6	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Actinium-228	2.01		pCi/g	0.67	0.4	0.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Actinium-228	1.56		pCi/g	0.56	0.36	0.36	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Actinium-228	2.13		pCi/g	0.72	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Actinium-228	2.03		pCi/g	0.68	0.37	0.37	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Actinium-228	1.4		pCi/g	0.59	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Aluminum	13900	J	mg/kg		3.1	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Aluminum	5090	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Aluminum	5570	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Aluminum	11400	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Aluminum	6670	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Aluminum	3740	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Aluminum	10300	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Aluminum	5230	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Aluminum	4130	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Aluminum	6980	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Aluminum	6530	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Aluminum	6420	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Aluminum	9620	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Aluminum	7650	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Aluminum	6560	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Aluminum	10800	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Aluminum	6470		mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Aluminum	8450		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Aluminum	11400		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Aluminum	8990		mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Aluminum	5300		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Aluminum	9570		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Aluminum	6730		mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Aluminum	6100		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Aluminum	12800		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Aluminum	7320		mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Aluminum	6310		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Aluminum	12600	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Aluminum	14700	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Aluminum	12500	J	mg/kg		3.2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Aluminum	13400	J	mg/kg		3.1	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Aluminum	11800	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Aluminum	13300	J	mg/kg		3.2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Aluminum	13300	J	mg/kg		3.1	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Aluminum	10600		mg/kg		3	2	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Aluminum	10900	J	mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Aluminum	12200	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Aluminum	7240	J	mg/kg		3.1	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Aluminum	10600	J	mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Aluminum	7500	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Aluminum	5660	J	mg/kg		3.8	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Aluminum	6530	J	mg/kg		3.2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Aluminum	7130	J	mg/kg		3.1	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Aluminum	7820	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Aluminum	5740		mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Aluminum	7880		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Aluminum	8730	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Aluminum	6620		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Aluminum	5220		mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Aluminum	7660		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Aluminum	11600	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Aluminum	11700	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Aluminum	10300	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Aluminum	13800	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Aluminum	11600	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Aluminum	10800	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Aluminum	12400	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Aluminum	10300	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Aluminum	11600	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Aluminum	13100	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Aluminum	7190	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Aluminum	9210	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Aluminum	12200	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Aluminum	8400	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Aluminum	9880	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Aluminum	11200	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Aluminum	7890	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Aluminum	10300	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Aluminum	8080	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Aluminum	6800	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Aluminum	8440	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Aluminum	6360	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Aluminum	8100	J	mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Aluminum	7270	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Aluminum	6820	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Aluminum	8010	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Aluminum	8250	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Aluminum	11200	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Aluminum	11100	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Aluminum	12000	J	mg/kg		3.1	2	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Aluminum	6340	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Aluminum	15300	J	mg/kg		3.1	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Aluminum	8560	J	mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Aluminum	10400	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Aluminum	12600	J	mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Aluminum	11200	J	mg/kg		3.2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Aluminum	8220	J	mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Aluminum	6520	J	mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Aluminum	8470	J	mg/kg		3.2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Aluminum	7220		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Aluminum	6950		mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Aluminum	6720		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Aluminum	6850		mg/kg		3	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Aluminum	6920		mg/kg		3.2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Aluminum	6730		mg/kg		3.1	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Antimony	0.5	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Antimony	0.46	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Antimony	0.14	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Antimony	0.25	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Antimony	0.38	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Antimony	0.13	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Antimony	0.23	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Antimony	0.14	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Antimony	0.24	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Antimony	0.16	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Antimony	0.21	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Antimony	0.17	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Antimony	0.14	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Antimony	0.23	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Antimony	0.35	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Antimony	0.12	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Antimony	0.32	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Antimony	0.2	J-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Antimony	0.15	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Antimony	0.2	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Antimony	0.3298	U	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Antimony	0.28	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Antimony	0.39	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Antimony	0.3298	UJ-	mg/kg		1.3	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Antimony	0.12	J-	mg/kg		1.1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Antimony	0.2	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Antimony	0.23	J	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Antimony	0.21	J	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Antimony	0.2	J	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Antimony	0.3298	U	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Antimony	0.29	J	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Antimony	0.28	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Antimony	0.12	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Antimony	0.17	J-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Antimony	0.25	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Antimony	0.29	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Antimony	0.27	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Antimony	0.36	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Antimony	0.18	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Antimony	0.32	J-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Antimony	0.15	J-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Antimony	0.3298	UJ-	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Antimony	0.3298	UJ-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Antimony	0.4	J-	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Antimony	0.3298	UJ-	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Antimony	0.41	J-	mg/kg		1.1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Antimony	0.22	J	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Antimony	0.15	J	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Antimony	0.3298	U	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Antimony	0.15	J	mg/kg		1	0.3298	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Antimony	0.3298	U	mg/kg		1.1	0.3298	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Antimony	0.3298	U	mg/kg		1	0.3298	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Arsenic	5.4	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Arsenic	3.4	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Arsenic	5.1	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Arsenic	5.3	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Arsenic	4.4	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Arsenic	4.6		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Arsenic	6.9		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Arsenic	4		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Arsenic	4.8		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Arsenic	4.2	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Arsenic	3	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Arsenic	3.4	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Arsenic	6.3	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Arsenic	3.6	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Arsenic	3.9	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Arsenic	5.9	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Arsenic	3.6		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Arsenic	3.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Arsenic	4.7		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Arsenic	3.5		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Arsenic	4.3		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Arsenic	4.1		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Arsenic	4		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Arsenic	5.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Arsenic	4.9		mg/kg		1	0.1278	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Arsenic	3.5		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Arsenic	6		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Arsenic	2.5		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Arsenic	3.1		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Arsenic	3.2		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Arsenic	2.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Arsenic	2.8		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Arsenic	3.1		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Arsenic	2.5		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Arsenic	3.4		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Arsenic	2.9		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Arsenic	3.2		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Arsenic	2.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Arsenic	3.6		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Arsenic	3.7		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Arsenic	3.1		mg/kg		1.3	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Arsenic	3.7		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Arsenic	2.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Arsenic	3.3		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Arsenic	3.4		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Arsenic	3.9		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Arsenic	2.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Arsenic	3		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Arsenic	4.4		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Arsenic	3.4		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Arsenic	5.4		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Arsenic	4.9		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Arsenic	5.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Arsenic	6.3		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Arsenic	5.1		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Arsenic	4.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Arsenic	5.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Arsenic	5.5		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Arsenic	4.4		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Arsenic	7.2	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Arsenic	5.2	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Arsenic	4.1	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Arsenic	5.2		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Arsenic	6.1	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Arsenic	3.3	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Arsenic	6.4	J	mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Arsenic	5.6	J	mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Arsenic	5.4	J	mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Arsenic	3.6		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Arsenic	3.7		mg/kg		1	0.1278	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Arsenic	4		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Arsenic	3		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Arsenic	3.8		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Arsenic	4.2		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Arsenic	3.4		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Arsenic	3.7		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Arsenic	3.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Arsenic	4.3		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Arsenic	3.6		mg/kg		1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Arsenic	4		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Arsenic	2.9		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Arsenic	4.5		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Arsenic	4.2		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Arsenic	3.7		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Arsenic	3.9		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Arsenic	3.6		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Arsenic	4.2		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Arsenic	4		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Arsenic	6		mg/kg		1.1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Arsenic	3.5		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Arsenic	3.7		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Arsenic	5		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Arsenic	3.9		mg/kg		1	0.1278	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Arsenic	4.2		mg/kg		1.1	0.1278	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Arsenic	6.7		mg/kg		1	0.1278	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Barium	190		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Barium	111		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Barium	147		mg/kg		2	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Barium	181		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Barium	187		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Barium	82.5	J+	mg/kg		2	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Barium	162	J+	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Barium	114	J+	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Barium	102	J+	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Barium	90.4		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Barium	216		mg/kg		2	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Barium	174		mg/kg		2	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Barium	131		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Barium	224		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Barium	177		mg/kg		2	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Barium	146		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Barium	167		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Barium	184		mg/kg		2	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Barium	205		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Barium	221		mg/kg		2	0.152	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Barium	136		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Barium	171		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Barium	177		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Barium	135		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Barium	215		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Barium	217		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Barium	175		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Barium	220	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Barium	272	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Barium	191	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Barium	218	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Barium	183	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Barium	245	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Barium	445	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Barium	157		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Barium	188	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Barium	197	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Barium	152	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Barium	143	J	mg/kg		2.2	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Barium	122	J+	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Barium	77.2	J+	mg/kg		2.5	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Barium	118	J+	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Barium	145	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Barium	141	J+	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Barium	96.7		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Barium	122		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Barium	154	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Barium	139		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Barium	73		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Barium	121		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Barium	150	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Barium	213	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Barium	142	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Barium	193	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Barium	210	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Barium	202	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Barium	218	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Barium	204	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Barium	169	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Barium	219		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Barium	226		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Barium	231		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Barium	230	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Barium	311		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Barium	340		mg/kg		2.1	0.152	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Barium	215		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Barium	277		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Barium	309		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Barium	119	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Barium	140	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Barium	154	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Barium	117	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Barium	254	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Barium	203	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Barium	127	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Barium	118	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Barium	139	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Barium	142	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Barium	218	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Barium	171	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Barium	154	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Barium	240	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Barium	146	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Barium	190	J	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Barium	264	J	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Barium	154	J	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Barium	185	J+	mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Barium	138	J+	mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Barium	166	J+	mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Barium	202		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Barium	130		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Barium	175		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Barium	152		mg/kg		2	0.152	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Barium	143		mg/kg		2.1	0.152	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Barium	88.9		mg/kg		2.1	0.152	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Beryllium	0.78		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Beryllium	0.38	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Beryllium	0.37	J	mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Beryllium	0.73		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Beryllium	0.48	J	mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Beryllium	0.46	J	mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Beryllium	0.85		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Beryllium	0.54		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Beryllium	0.5	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Beryllium	0.54		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Beryllium	0.55		mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Beryllium	0.53		mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Beryllium	0.72		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Beryllium	0.54		mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Beryllium	0.5	J	mg/kg		0.51	0.038	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Beryllium	0.8		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Beryllium	0.47	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Beryllium	0.54		mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Beryllium	0.57		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Beryllium	0.44	J	mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Beryllium	0.44	J	mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Beryllium	0.57		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Beryllium	0.44	J	mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Beryllium	0.41	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Beryllium	0.84		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Beryllium	0.5	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Beryllium	0.41	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Beryllium	0.44	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Beryllium	0.5	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Beryllium	0.43	J	mg/kg		0.53	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Beryllium	0.45	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Beryllium	0.45	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Beryllium	0.5	J	mg/kg		0.53	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Beryllium	0.41	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Beryllium	0.65		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Beryllium	0.46	J	mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Beryllium	0.47	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Beryllium	0.35	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Beryllium	0.54	J	mg/kg		0.54	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Beryllium	0.84		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Beryllium	0.69		mg/kg		0.63	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Beryllium	0.89		mg/kg		0.53	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Beryllium	0.33	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Beryllium	0.89		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Beryllium	0.76		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Beryllium	0.79		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Beryllium	0.37	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Beryllium	0.73		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Beryllium	0.61		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Beryllium	0.88		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Beryllium	0.69		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Beryllium	0.69		mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Beryllium	0.5	J	mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Beryllium	0.77		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Beryllium	0.64		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Beryllium	0.63		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Beryllium	0.76		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Beryllium	0.62		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Beryllium	0.62		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Beryllium	0.81		mg/kg		0.51	0.038	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Beryllium	0.48	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Beryllium	0.52		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Beryllium	0.74		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Beryllium	0.71		mg/kg		0.51	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Beryllium	0.48	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Beryllium	0.82		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Beryllium	0.59		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Beryllium	0.58		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Beryllium	0.66		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Beryllium	0.6		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Beryllium	0.62		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Beryllium	0.54		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Beryllium	0.77		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Beryllium	0.64		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Beryllium	0.62		mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Beryllium	0.66		mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Beryllium	0.67		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Beryllium	0.32	J	mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Beryllium	0.42	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Beryllium	0.42	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Beryllium	0.16	J	mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Beryllium	0.47	J	mg/kg		0.52	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Beryllium	0.29	J	mg/kg		0.51	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Beryllium	0.45	J	mg/kg		0.51	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Beryllium	0.49	J	mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Beryllium	0.42	J	mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Beryllium	0.85		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Beryllium	0.77		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Beryllium	0.81		mg/kg		0.53	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Beryllium	0.8		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Beryllium	0.76		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Beryllium	0.64		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Beryllium	0.73		mg/kg		0.5	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Beryllium	0.76		mg/kg		0.53	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Beryllium	0.72		mg/kg		0.52	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Bismuth-212	0.61	U	pCi/g	0.64	0.86	0.86	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Bismuth-212	0.87		pCi/g	0.58	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Bismuth-212	0.74	U	pCi/g	0.57	0.86	0.86	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Bismuth-212	1.05	U	pCi/g	0.54	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Bismuth-212	0.82	U	pCi/g	0.55	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Bismuth-212	1.22		pCi/g	0.57	0.81	0.81	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Bismuth-212	0.81		pCi/g	0.64	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Bismuth-212	1.6		pCi/g	0.7	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Bismuth-212	1.22	U	pCi/g	0.59	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Bismuth-212	1.82		pCi/g	0.67	0.82	0.82	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Bismuth-212	1.7		pCi/g	0.63	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Bismuth-212	1.36		pCi/g	0.63	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Bismuth-212	1.19		pCi/g	0.75	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Bismuth-212	0.99		pCi/g	0.78	0.99	0.99	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Bismuth-212	1.53		pCi/g	0.71	0.81	0.81	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Bismuth-212	1.62		pCi/g	0.67	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Bismuth-212	1.06		pCi/g	0.74	0.78	0.78	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Bismuth-212	1.46		pCi/g	0.57	0.6	0.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Bismuth-212	1.34		pCi/g	0.75	0.83	0.83	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Bismuth-212	1.82		pCi/g	0.77	0.82	0.82	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Bismuth-212	1.69		pCi/g	0.67	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Bismuth-212	1.66		pCi/g	0.66	0.83	0.83	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Bismuth-212	1.41		pCi/g	0.59	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Bismuth-212	0.75	U	pCi/g	0.43	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Bismuth-212	0.61	U	pCi/g	0.55	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Bismuth-212	0.79		pCi/g	0.47	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Bismuth-212	1.59		pCi/g	0.58	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Bismuth-212	0.46	U	pCi/g	0.55	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Bismuth-212	0.72		pCi/g	0.56	0.64	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Bismuth-212	0.75	U	pCi/g	0.52	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Bismuth-212	1.16		pCi/g	0.52	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Bismuth-212	1.32		pCi/g	0.58	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Bismuth-212	0.64	U	pCi/g	0.47	0.94	0.94	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Bismuth-212	0.69	U	pCi/g	0.48	0.99	0.99	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Bismuth-212	0.29	U	pCi/g	0.47	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Bismuth-212	0.53	U	pCi/g	0.53	0.55	0.55	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Bismuth-212	0.99		pCi/g	0.59	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Bismuth-212	0.89		pCi/g	0.58	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Bismuth-212	1.22		pCi/g	0.77	0.82	0.82	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Bismuth-212	1.54		pCi/g	0.6	0.65	0.65	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Bismuth-212	0.84	U	pCi/g	0.55	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Bismuth-212	1.46		pCi/g	0.63	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Bismuth-212	1.07		pCi/g	0.53	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Bismuth-212	1.07	U	pCi/g	0.55	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Bismuth-212	1.37		pCi/g	0.56	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Bismuth-212	1.11		pCi/g	0.73	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Bismuth-212	1.45		pCi/g	0.63	1.3	1.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Bismuth-212	0.83		pCi/g	0.58	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Bismuth-212	0.93		pCi/g	0.7	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Bismuth-212	1.42		pCi/g	0.72	0.95	0.95	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Bismuth-212	0.7	U	pCi/g	0.63	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Bismuth-212	1.4		pCi/g	0.58	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Bismuth-212	0.96	U	pCi/g	0.51	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Bismuth-212	0.98		pCi/g	0.7	0.86	0.86	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Bismuth-212	0.85	U	pCi/g	0.54	1.1	1.1	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Bismuth-212	0.6	U	pCi/g	0.47	0.96	0.96	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Bismuth-212	1.09		pCi/g	0.45	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Bismuth-212	0.54	U	pCi/g	0.56	0.82	0.82	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Bismuth-212	1.1		pCi/g	0.57	0.79	0.79	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Bismuth-212	1.13	U	pCi/g	0.56	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Bismuth-212	1.21	U	pCi/g	0.59	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Bismuth-212	1.12		pCi/g	0.5	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Bismuth-212	0.86		pCi/g	0.69	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Bismuth-212	0.82		pCi/g	0.45	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Bismuth-212	0.58	U	pCi/g	0.59	0.66	0.66	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Bismuth-212	0.9	U	pCi/g	0.53	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Bismuth-212	0.9	U	pCi/g	0.52	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Bismuth-212	1.28		pCi/g	0.47	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Bismuth-212	1.04		pCi/g	0.74	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Bismuth-212	0.99		pCi/g	0.61	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Bismuth-212	1.42		pCi/g	0.82	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Bismuth-212	0.6	U	pCi/g	0.46	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Bismuth-212	0.91		pCi/g	0.71	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Bismuth-212	1.06		pCi/g	0.59	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Bismuth-212	0.92	U	pCi/g	0.54	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Bismuth-212	1.05		pCi/g	0.67	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Bismuth-212	0.99		pCi/g	0.56	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Bismuth-212	0.78		pCi/g	0.55	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Bismuth-212	0.53	U	pCi/g	0.47	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Bismuth-212	0.84		pCi/g	0.59	0.65	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Bismuth-212	0.83		pCi/g	0.56	0.6	0.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Bismuth-212	1.32		pCi/g	0.6	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Bismuth-212	1.32		pCi/g	0.67	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Bismuth-212	0.9		pCi/g	0.6	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Bismuth-212	1.17		pCi/g	0.54	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Bismuth-212	1.39		pCi/g	0.69	0.66	0.66	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Bismuth-212	0.56	U	pCi/g	0.65	0.75	0.75	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Bismuth-212	0.79	U	pCi/g	0.47	0.96	0.96	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Bismuth-212	0.65	U	pCi/g	0.55	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Bismuth-212	0.85		pCi/g	0.6	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Bismuth-212	0.88	U	pCi/g	0.55	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Bismuth-212	0.62	U	pCi/g	0.6	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Bismuth-212	0.91		pCi/g	0.65	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Bismuth-212	0.63	U	pCi/g	0.53	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Bismuth-212	0.83		pCi/g	0.55	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Bismuth-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Bismuth-210	1.04	U	pCi/g	0.99	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Bismuth-210	0.7	U	pCi/g	1.4	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Bismuth-210	1.6	U	pCi/g	1.4	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Bismuth-210	1.2	U	pCi/g	1.3	2.5	2.5	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Bismuth-210	0.5	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Bismuth-210	0.9	U	pCi/g	1.4	2.5	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Bismuth-210	1.6	U	pCi/g	1.4	2.7	2.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Bismuth-210	0.7	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Bismuth-210	1.9	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Bismuth-210	0.3	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Bismuth-210	1	U	pCi/g	1.1	1.7	1.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Bismuth-210	1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Bismuth-210	1.4	U	pCi/g	1.3	2.4	2.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Bismuth-210	0.6	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Bismuth-210	-0.05	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Bismuth-210	0.5	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Bismuth-210	0.009	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Bismuth-210	1.5	U	pCi/g	1.3	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Bismuth-210	0.5	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Bismuth-210	1.6	U	pCi/g	1.3	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Bismuth-210	0.5	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Bismuth-210	-0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Bismuth-210	0.3	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Bismuth-210	2	U	pCi/g	1.4	2.8	2.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Bismuth-210	0.1	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Bismuth-210	1.1	U	pCi/g	1.3	2.3	2.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Bismuth-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Bismuth-210	-0.2	U	pCi/g	1	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Bismuth-210	2.2		pCi/g	1.6	1.5	1.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Bismuth-210	0.3	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Bismuth-210	0.2	U	pCi/g	1.1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Bismuth-210	0.81	U	pCi/g	0.91	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Bismuth-210	0.2	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Bismuth-210	0.06	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Bismuth-210	-0.3	U	pCi/g	0.94	1.7	1.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Bismuth-210	-0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Bismuth-210	-0.3	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Bismuth-210	0.8	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Bismuth-210	1.7	U	pCi/g	1.1	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Bismuth-210	1.7	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Bismuth-210	0.09	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Bismuth-210	0.4	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Bismuth-210	0.4	U	pCi/g	1.1	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Bismuth-210	0.36	U	pCi/g	0.98	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Bismuth-210	0.3	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Bismuth-210	0.7	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Bismuth-210	0.7	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Bismuth-210	-0.5	U	pCi/g	1.3	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Bismuth-210	0.3	U	pCi/g	1.1	2.1	2.1	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Bismuth-210	0.5	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Bismuth-210	0.18	U	pCi/g	0.99	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Bismuth-210	0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Bismuth-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Bismuth-210	-0.1	U	pCi/g	1.2	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Bismuth-210	0.2	U	pCi/g	1.1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Bismuth-210	1.19	U	pCi/g	0.98	1.9	1.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Bismuth-210	0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Bismuth-210	0.6	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Bismuth-210	0.6	U	pCi/g	1.1	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Bismuth-210	0.6	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Bismuth-210	0.8	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Bismuth-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Bismuth-210	0.6	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Bismuth-210	1.1	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Bismuth-210	1.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Bismuth-210	0.2	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Bismuth-210	0.8	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Bismuth-210	0.4	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Bismuth-210	0.2	U	pCi/g	1.1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Bismuth-210	0.4	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Bismuth-210	0.63	U	pCi/g	0.97	1.8	1.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Bismuth-210	0.8	U	pCi/g	1.3	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Bismuth-210	0.7	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Bismuth-210	-0.002	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Bismuth-210	0.2	U	pCi/g	1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Bismuth-210	1.2	U	pCi/g	1.2	2.4	2.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Bismuth-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Bismuth-210	-0.3	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Bismuth-210	0.91	U	pCi/g	0.95	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Bismuth-210	0.6	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Bismuth-210	0.2	U	pCi/g	1.4	2.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Bismuth-210	0.9	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Bismuth-210	0.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Bismuth-210	-0.1	U	pCi/g	1.2	2.1	2.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Bismuth-210	1.3	U	pCi/g	0.98	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Bismuth-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Bismuth-210	0.33	U	pCi/g	0.97	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Bismuth-210	0.7	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Bismuth-210	0.6	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Bismuth-210	-0.2	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Bismuth-210	0.7	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Bismuth-210	0.6	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Bismuth-210	0.5	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Bismuth-210	1.7	U	pCi/g	1.1	2.1	2.1	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Bismuth-211	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Bismuth-211	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Bismuth-211	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Bismuth-211	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Bismuth-211	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Bismuth-211	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Bismuth-211	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Bismuth-211	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Bismuth-211	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Bismuth-211	0.34	U	pCi/g	0.44	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Bismuth-211	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Bismuth-211	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Bismuth-211	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Bismuth-211	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Bismuth-211	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Bismuth-211	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Bismuth-211	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Bismuth-211	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Bismuth-211	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Bismuth-211	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Bismuth-211	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Bismuth-211	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Bismuth-211	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Bismuth-211	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Bismuth-211	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Bismuth-211	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Bismuth-211	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Bismuth-211	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Bismuth-211	-0.11	U	pCi/g	0.36	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Bismuth-211	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Bismuth-211	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Bismuth-211	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Bismuth-211	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Bismuth-211	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Bismuth-211	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Bismuth-211	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Bismuth-211	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Bismuth-211	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Bismuth-211	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Bismuth-211	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Bismuth-211	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Bismuth-211	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Bismuth-211	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Bismuth-211	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Bismuth-211	-0.13	U	pCi/g	0.41	0.71	0.71	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Bismuth-211	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Bismuth-211	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Bismuth-211	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Bismuth-211	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Bismuth-211	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Bismuth-211	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Bismuth-211	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Bismuth-211	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Bismuth-211	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Bismuth-211	-0.02	U	pCi/g	0.42	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Bismuth-211	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Bismuth-211	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Bismuth-211	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Bismuth-211	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Bismuth-211	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Bismuth-211	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Bismuth-211	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Bismuth-211	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Bismuth-211	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Bismuth-211	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Bismuth-211	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Bismuth-211	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Bismuth-211	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Bismuth-211	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Bismuth-211	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Bismuth-211	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Bismuth-211	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Bismuth-211	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Bismuth-211	-0.27	U	pCi/g	0.45	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Bismuth-211	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Bismuth-211	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Bismuth-211	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Bismuth-211	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Bismuth-211	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Bismuth-211	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Bismuth-211	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Bismuth-211	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Bismuth-211	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Bismuth-211	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Bismuth-211	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Bismuth-211	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Bismuth-211	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Bismuth-211	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Bismuth-211	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Bismuth-211	-0.15	U	pCi/g	0.42	0.72	0.72	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Bismuth-211	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Bismuth-211	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Bismuth-211	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Bismuth-211	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Bismuth-211	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Bismuth-214	0.9		pCi/g	0.27	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Bismuth-214	1.22		pCi/g	0.25	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Bismuth-214	1.03		pCi/g	0.26	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Bismuth-214	1.21		pCi/g	0.26	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Bismuth-214	1.14		pCi/g	0.26	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Bismuth-214	1.32		pCi/g	0.29	0.47	0.47	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Bismuth-214	1.2		pCi/g	0.26	0.44	0.44	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Bismuth-214	1.2		pCi/g	0.27	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Bismuth-214	1.49		pCi/g	0.3	0.51	0.51	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Bismuth-214	1.16		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Bismuth-214	1.08		pCi/g	0.24	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Bismuth-214	0.95		pCi/g	0.22	0.36	0.36	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Bismuth-214	1.12		pCi/g	0.29	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Bismuth-214	1.21		pCi/g	0.26	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Bismuth-214	0.82		pCi/g	0.21	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Bismuth-214	1.01		pCi/g	0.25	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Bismuth-214	1.08		pCi/g	0.26	0.44	0.44	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Bismuth-214	0.97		pCi/g	0.25	0.4	0.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Bismuth-214	1.26		pCi/g	0.31	0.52	0.52	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Bismuth-214	1.06		pCi/g	0.25	0.43	0.43	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Bismuth-214	1.04		pCi/g	0.27	0.46	0.46	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Bismuth-214	0.93		pCi/g	0.24	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Bismuth-214	0.97		pCi/g	0.28	0.44	0.44	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Bismuth-214	1.09		pCi/g	0.24	0.4	0.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Bismuth-214	0.93		pCi/g	0.27	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Bismuth-214	0.9		pCi/g	0.22	0.36	0.36	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Bismuth-214	1.24		pCi/g	0.28	0.2	0.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Bismuth-214	0.89		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Bismuth-214	0.7		pCi/g	0.2	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Bismuth-214	0.79		pCi/g	0.21	0.37	0.37	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Bismuth-214	0.6		pCi/g	0.21	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Bismuth-214	0.64		pCi/g	0.19	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Bismuth-214	0.67		pCi/g	0.19	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Bismuth-214	0.69		pCi/g	0.21	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Bismuth-214	0.74		pCi/g	0.21	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Bismuth-214	0.66		pCi/g	0.18	0.33	0.33	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Bismuth-214	0.64		pCi/g	0.2	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Bismuth-214	0.91		pCi/g	0.22	0.36	0.36	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Bismuth-214	0.92		pCi/g	0.25	0.44	0.44	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Bismuth-214	0.79		pCi/g	0.23	0.18	0.18	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Bismuth-214	0.84		pCi/g	0.2	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Bismuth-214	1.09		pCi/g	0.23	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Bismuth-214	0.92		pCi/g	0.22	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Bismuth-214	0.81		pCi/g	0.25	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Bismuth-214	0.88		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Bismuth-214	1.07		pCi/g	0.27	0.46	0.46	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Bismuth-214	0.73		pCi/g	0.22	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Bismuth-214	0.85		pCi/g	0.24	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Bismuth-214	0.95		pCi/g	0.25	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Bismuth-214	1.16		pCi/g	0.27	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Bismuth-214	1.21		pCi/g	0.27	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Bismuth-214	0.73		pCi/g	0.23	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Bismuth-214	1.18		pCi/g	0.24	0.46	0.46	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Bismuth-214	0.87		pCi/g	0.25	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Bismuth-214	0.96		pCi/g	0.23	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Bismuth-214	0.9		pCi/g	0.24	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Bismuth-214	0.63		pCi/g	0.2	0.36	0.36	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Bismuth-214	0.74		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Bismuth-214	1.19		pCi/g	0.26	0.44	0.44	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Bismuth-214	1.16		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Bismuth-214	1.25		pCi/g	0.29	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Bismuth-214	1.19		pCi/g	0.27	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Bismuth-214	0.92		pCi/g	0.23	0.37	0.37	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Bismuth-214	1.02		pCi/g	0.26	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Bismuth-214	0.96		pCi/g	0.22	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Bismuth-214	0.92		pCi/g	0.23	0.37	0.37	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Bismuth-214	1.48		pCi/g	0.29	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Bismuth-214	1.14		pCi/g	0.25	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Bismuth-214	0.96		pCi/g	0.24	0.44	0.44	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Bismuth-214	0.94		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Bismuth-214	0.81		pCi/g	0.22	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Bismuth-214	0.8		pCi/g	0.2	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Bismuth-214	1.14		pCi/g	0.27	0.48	0.48	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Bismuth-214	0.98		pCi/g	0.27	0.38	0.38	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Bismuth-214	0.9		pCi/g	0.21	0.38	0.38	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Bismuth-214	0.8		pCi/g	0.22	0.38	0.38	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Bismuth-214	0.89		pCi/g	0.25	0.44	0.44	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Bismuth-214	0.87		pCi/g	0.25	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Bismuth-214	0.91		pCi/g	0.22	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Bismuth-214	1.02		pCi/g	0.25	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Bismuth-214	0.95		pCi/g	0.21	0.35	0.35	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Bismuth-214	1.05		pCi/g	0.27	0.49	0.49	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Bismuth-214	1		pCi/g	0.27	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Bismuth-214	0.73		pCi/g	0.21	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Bismuth-214	0.82		pCi/g	0.25	0.39	0.39	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Bismuth-214	0.83		pCi/g	0.21	0.37	0.37	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Bismuth-214	0.94		pCi/g	0.25	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Bismuth-214	0.88		pCi/g	0.21	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Bismuth-214	1.46		pCi/g	0.27	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Bismuth-214	0.92		pCi/g	0.23	0.41	0.41	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Bismuth-214	1.05		pCi/g	0.24	0.4	0.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Bismuth-214	1.44		pCi/g	0.29	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Bismuth-214	0.83		pCi/g	0.24	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Bismuth-214	1.06		pCi/g	0.25	0.43	0.43	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Bismuth-214	1.62		pCi/g	0.3	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Boron	7.5	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Boron	3.8	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Boron	7.1	J+	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Boron	6	J+	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Boron	5.9	J+	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Boron	4.4	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Boron	8.2	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Boron	4.1	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Boron	4.3	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Boron	4.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Boron	3.5	U	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Boron	3.4	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Boron	5.9	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Boron	4.1	U	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Boron	3.7	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Boron	5.7	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Boron	3.8	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Boron	4.9	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Boron	6.1	J+	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Boron	6.8	J+	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Boron	4.9	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Boron	5.2	J+	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Boron	8.3	J+	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Boron	7.7	J+	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Boron	5.3	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Boron	4.8	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Boron	8.6	J+	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Boron	3.5	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Boron	3.5	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Boron	3.2	U	mg/kg		5.3	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Boron	4.5	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Boron	5	U	mg/kg		5.3	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Boron	3.8	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Boron	5.6	J+	mg/kg		5	3.2	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Boron	3.2	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Boron	3.5	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Boron	3.6	U	mg/kg		5.4	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Boron	3.2	U	mg/kg		6.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Boron	3.2	U	mg/kg		5.3	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Boron	3.5	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Boron	3.4	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Boron	3.2	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Boron	3.2	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Boron	7.5	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Boron	9.1	J+	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Boron	6.2	J+	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Boron	8.3	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Boron	6.3	J+	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Boron	4.3	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Boron	6.1	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Boron	5.4	J+	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Boron	4	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Boron	11.6	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Boron	4.6	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Boron	3.7	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Boron	5.8	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Boron	4.6	U	mg/kg		5.1	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Boron	4.4	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Boron	7.8	J+	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Boron	4.8	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Boron	3.9	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Boron	3.2	U	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Boron	3.2	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Boron	4.5	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Boron	3.2	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Boron	3.9	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Boron	3.2	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Boron	3.2	U	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Boron	3.2	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Boron	8.8	J+	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Boron	5.8	J+	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Boron	5.5	J+	mg/kg		5.2	3.2	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Boron	4.8	U	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Boron	9.1	J+	mg/kg		5.2	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Boron	3.9	U	mg/kg		5.1	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Boron	4.9	U	mg/kg		5.1	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Boron	6.8	J+	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Boron	5.1	U	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Boron	4.9	U	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Boron	4.1	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Boron	10.2	J+	mg/kg		5.3	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Boron	3.7	U	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Boron	3.2	U	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Boron	5.8	J+	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Boron	3.2	U	mg/kg		5	3.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Boron	7.3	J+	mg/kg		5.3	3.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Boron	8.5	J+	mg/kg		5.2	3.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Cadmium	0.1291	UJ-	mg/kg		0.53	0.1291	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Cadmium	0.1291	UJ-	mg/kg		0.53	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Cadmium	0.1291	UJ-	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Cadmium	0.1291	UJ-	mg/kg		0.54	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Cadmium	0.1291	U	mg/kg		0.63	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Cadmium	0.1291	U	mg/kg		0.53	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Cadmium	0.1291	U	mg/kg		0.51	0.1291	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Cadmium	0.1291	UJ-	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Cadmium	0.1291	UJ-	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Cadmium	0.1291	UJ-	mg/kg		0.51	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Cadmium	0.1291	UJ-	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Cadmium	0.1291	UJ-	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Cadmium	0.1291	U	mg/kg		0.53	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Cadmium	0.1291	U	mg/kg		0.5	0.1291	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Cadmium	0.1291	U	mg/kg		0.53	0.1291	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Cadmium	0.1291	U	mg/kg		0.52	0.1291	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Calcium	20400	J	mg/kg		50.8	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Calcium	27200	J	mg/kg		51.6	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Calcium	47300	J	mg/kg		51.1	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Calcium	24600	J	mg/kg		50.3	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Calcium	29600	J	mg/kg		51.4	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Calcium	40400		mg/kg		51.1	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Calcium	42000		mg/kg		50.7	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Calcium	25900		mg/kg		51.6	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Calcium	41100		mg/kg		51.6	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Calcium	19300	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Calcium	13500	J	mg/kg		51.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Calcium	20000	J	mg/kg		50.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Calcium	30200	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Calcium	13000	J	mg/kg		51.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Calcium	26500	J	mg/kg		50.9	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Calcium	30100	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Calcium	19100		mg/kg		51.6	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Calcium	18400		mg/kg		51	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Calcium	19900		mg/kg		50.3	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Calcium	23900		mg/kg		51.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Calcium	29500		mg/kg		51.1	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Calcium	19200		mg/kg		50.3	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Calcium	18100		mg/kg		52.5	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Calcium	44800		mg/kg		51.7	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Calcium	11200		mg/kg		50.6	1.028	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Calcium	17300		mg/kg		51.9	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Calcium	51900		mg/kg		52.3	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Calcium	25800		mg/kg		50.8	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Calcium	20600		mg/kg		52.2	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Calcium	32300		mg/kg		53.3	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Calcium	20600		mg/kg		50.8	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Calcium	20800		mg/kg		52.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Calcium	24500		mg/kg		52.5	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Calcium	19500		mg/kg		50.8	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Calcium	23400		mg/kg		50.4	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Calcium	21300		mg/kg		52.6	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Calcium	32000		mg/kg		52.2	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Calcium	13500		mg/kg		50.8	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Calcium	16500		mg/kg		54	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Calcium	14900		mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Calcium	9440		mg/kg		63.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Calcium	18800		mg/kg		52.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Calcium	14400		mg/kg		51	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Calcium	16600		mg/kg		50.7	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Calcium	11400		mg/kg		52.5	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Calcium	18500		mg/kg		51.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Calcium	15000		mg/kg		50.7	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Calcium	17200		mg/kg		50.5	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Calcium	10300		mg/kg		53.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Calcium	18700		mg/kg		51.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Calcium	34200	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Calcium	38500	J	mg/kg		51.2	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Calcium	49100	J	mg/kg		51.3	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Calcium	31400	J	mg/kg		50.5	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Calcium	49100	J	mg/kg		51.8	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Calcium	45100	J	mg/kg		51.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Calcium	33300	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Calcium	65900	J	mg/kg		260	5.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Calcium	47000	J	mg/kg		51.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Calcium	43200	J	mg/kg		50.7	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Calcium	82800	J	mg/kg		260	5.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Calcium	42500	J	mg/kg		52	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Calcium	16600	J	mg/kg		50.5	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Calcium	30000	J	mg/kg		51.4	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Calcium	22800	J	mg/kg		52	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Calcium	26500	J	mg/kg		50.5	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Calcium	71900	J	mg/kg		260	5.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Calcium	44600	J	mg/kg		51.7	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Calcium	15800	J	mg/kg		50.4	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Calcium	17100	J	mg/kg		51.7	1.028	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Calcium	32300	J	mg/kg		51.6	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Calcium	14600	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Calcium	28700	J	mg/kg		53.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Calcium	21500	J	mg/kg		52.2	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Calcium	17600	J	mg/kg		50.6	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Calcium	19900	J	mg/kg		52.2	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Calcium	28800	J	mg/kg		51.6	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Calcium	28000		mg/kg		50.3	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Calcium	37300		mg/kg		52	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Calcium	19200		mg/kg		52.2	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Calcium	15000		mg/kg		50.3	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Calcium	49200		mg/kg		52.3	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Calcium	31900		mg/kg		51.4	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Calcium	22700	J	mg/kg		50.7	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Calcium	35600	J	mg/kg		53.1	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Calcium	17900	J	mg/kg		52.5	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Calcium	19800		mg/kg		50.4	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Calcium	64400		mg/kg		264	5.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Calcium	50600		mg/kg		52.8	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Calcium	16700		mg/kg		50.5	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Calcium	35100		mg/kg		52.6	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Calcium	70200		mg/kg		261	5.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Calcium	20900		mg/kg		50.4	1.028	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Calcium	42500		mg/kg		52.9	1.028	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Calcium	49900		mg/kg		51.9	1.028	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Chloride	1.6	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Chloride	71.5	J	mg/kg		20.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Chloride	426	J	mg/kg		40.8	5.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Chloride	4.1	J	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Chloride	215	J	mg/kg		20.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Chloride	34.1		mg/kg		2	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Chloride	1.2	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Chloride	17.1		mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Chloride	24.7		mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Chloride	2.3		mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Chloride	388		mg/kg		102	12.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Chloride	254		mg/kg		20.3	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Chloride	1.5	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Chloride	332		mg/kg		20.5	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Chloride	330		mg/kg		20.4	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Chloride	1.6	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Chloride	278		mg/kg		20.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Chloride	535		mg/kg		40.8	5.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Chloride	0.77	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Chloride	199		mg/kg		20.4	2.6	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Chloride	404	J	mg/kg		102	12.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Chloride	1.4	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Chloride	29.2	J	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Chloride	763	J	mg/kg		103	12.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Chloride	1.7	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Chloride	643	J	mg/kg		104	13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Chloride	1110	J	mg/kg		105	13.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Chloride	0.38	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Chloride	2.7		mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Chloride	16		mg/kg		2.1	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Chloride	1.1	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Chloride	2.1		mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Chloride	6.3		mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Chloride	0.25	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Chloride	0.74	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Chloride	1.8	U	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Chloride	1.6	U	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Chloride	1.1	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Chloride	1.8	U	mg/kg		2.2	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Chloride	0.97	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Chloride	0.25	U	mg/kg		2.5	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Chloride	16.3		mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Chloride	0.51	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Chloride	0.79	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Chloride	1.6	U	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Chloride	21.7	J	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Chloride	1.8	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Chloride	0.84	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Chloride	3	J	mg/kg		2.1	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Chloride	23	J	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Chloride	252		mg/kg		20.2	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Chloride	870		mg/kg		205	25.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Chloride	337		mg/kg		20.5	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Chloride	3.4		mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Chloride	758		mg/kg		41.5	5.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Chloride	209		mg/kg		20.7	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Chloride	1.3	B	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Chloride	236		mg/kg		20.8	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Chloride	17.7		mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Chloride	219	J	mg/kg		20.3	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Chloride	1060	J	mg/kg		104	13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Chloride	73.6	J	mg/kg		20.8	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Chloride	1.7	B J	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Chloride	2.5	J	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Chloride	263	J	mg/kg		20.8	2.6	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Chloride	17.6	J	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Chloride	772	J	mg/kg		104	13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Chloride	141		mg/kg		20.7	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Chloride	7		mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Chloride	1.3	B	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Chloride	26.9	J	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Chloride	1.6	B J	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Chloride	36	J	mg/kg		2.1	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Chloride	144	J	mg/kg		20.9	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Chloride	1.2	B J	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Chloride	4.1	J	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Chloride	155	J	mg/kg		20.7	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Chloride	38.7		mg/kg		20.1	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Chloride	47.7		mg/kg		20.8	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Chloride	22.9		mg/kg		20.9	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Chloride	7		mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Chloride	134		mg/kg		20.9	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Chloride	26		mg/kg		20.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Chloride	1.6	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Chloride	2.4		mg/kg		2.1	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Chloride	4.1		mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Chloride	0.72	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Chloride	33.1		mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Chloride	6.2	U	mg/kg		21.1	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Chloride	0.79	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Chloride	3.9	J	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Chloride	27.4	J	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Chloride	1.3	U	mg/kg		2	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Chloride	21.2	J	mg/kg		2.1	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Chloride	42.4	J	mg/kg		2.1	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Chromium (total)	13.9		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Chromium (total)	4.5		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Chromium (total)	5.4		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Chromium (total)	13.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Chromium (total)	5.9		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Chromium (total)	2.9		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Chromium (total)	11.6		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Chromium (total)	3.1		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Chromium (total)	2.6		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Chromium (total)	8		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Chromium (total)	6.4		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Chromium (total)	8.4		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Chromium (total)	11.1		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Chromium (total)	12		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Chromium (total)	5.8		mg/kg		1	0.1841	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Chromium (total)	10.1		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Chromium (total)	5.8		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Chromium (total)	6		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Chromium (total)	12		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Chromium (total)	6.4		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Chromium (total)	6.2		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Chromium (total)	9		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Chromium (total)	6.2		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Chromium (total)	5.8		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Chromium (total)	12.8		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Chromium (total)	5		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Chromium (total)	4.4		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Chromium (total)	6.4		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Chromium (total)	7.1		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Chromium (total)	7.5		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Chromium (total)	7		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Chromium (total)	8.1		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Chromium (total)	9.1		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Chromium (total)	7.7		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Chromium (total)	11.9		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Chromium (total)	7.5		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Chromium (total)	8.2		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Chromium (total)	3.6		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Chromium (total)	12.1		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Chromium (total)	10.9		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Chromium (total)	6.5		mg/kg		1.3	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Chromium (total)	10.8		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Chromium (total)	4.8		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Chromium (total)	11.9		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Chromium (total)	6.9		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Chromium (total)	9.9		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Chromium (total)	4.7		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Chromium (total)	6.8		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Chromium (total)	6		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Chromium (total)	12.9		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Chromium (total)	15		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Chromium (total)	11.2		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Chromium (total)	10.3		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Chromium (total)	14.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Chromium (total)	9.5		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Chromium (total)	9.4		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Chromium (total)	13.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Chromium (total)	9.5		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Chromium (total)	8.6		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Chromium (total)	15.5		mg/kg		1	0.1841	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Chromium (total)	6.7		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Chromium (total)	9.2		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Chromium (total)	14.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Chromium (total)	10.8		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Chromium (total)	8.1		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Chromium (total)	16.7		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Chromium (total)	9.8		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Chromium (total)	9		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Chromium (total)	12		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Chromium (total)	11.3		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Chromium (total)	7.8		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Chromium (total)	7.6		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Chromium (total)	7.9		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Chromium (total)	7.4		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Chromium (total)	13.1		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Chromium (total)	9.1		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Chromium (total)	10		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Chromium (total)	7.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Chromium (total)	9.8		mg/kg		1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Chromium (total)	14.1		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Chromium (total)	8.4		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Chromium (total)	9.7		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Chromium (total)	7.6		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Chromium (total)	11.3		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Chromium (total)	11.6		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Chromium (total)	8.2		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Chromium (total)	14.5		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Chromium (total)	8.8		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Chromium (total)	10.3		mg/kg		1.1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Chromium (total)	13.3		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Chromium (total)	9.9		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Chromium (total)	7.8		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Chromium (total)	10.7		mg/kg		1	0.1841	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Chromium (total)	9.1		mg/kg		1.1	0.1841	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Chromium (total)	9.1		mg/kg		1	0.1841	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Chromium VI	0.251	U	mg/kg		0.43	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Chromium VI	0.251	U	mg/kg		0.41	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Chromium VI	0.251	U	mg/kg		0.41	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Chromium VI	0.251	U	mg/kg		0.43	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Chromium VI	0.251	U	mg/kg		0.51	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Chromium VI	0.251	U	mg/kg		0.42	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Chromium VI	0.251	U	mg/kg		0.41	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Chromium VI	0.251	U	mg/kg		0.42	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Chromium VI	0.251	U	mg/kg		0.41	0.26	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Chromium VI	0.251	U	mg/kg		0.41	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Chromium VI	0.251	U	mg/kg		0.43	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Chromium VI	0.251	U	mg/kg		0.41	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Chromium VI	0.251	U	mg/kg		0.41	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Chromium VI	0.251	U	mg/kg		0.42	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Chromium VI	0.251	U	mg/kg		0.42	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Chromium VI	0.251	U	mg/kg		0.4	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Chromium VI	0.251	U	mg/kg		0.42	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Chromium VI	0.251	U	mg/kg		0.42	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Cobalt	9.8		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Cobalt	4.8		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Cobalt	6.7		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Cobalt	8.2		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Cobalt	6.2		mg/kg		1	0.064	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Cobalt	3.7	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Cobalt	6.8	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Cobalt	5.4	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Cobalt	3.9	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Cobalt	5.7		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Cobalt	5.9		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Cobalt	6.1		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Cobalt	7.3		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Cobalt	7.4		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Cobalt	5.8		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Cobalt	7.3		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Cobalt	5.7	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Cobalt	7	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Cobalt	8.1	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Cobalt	6.6	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Cobalt	4.8	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Cobalt	7.5	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Cobalt	6	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Cobalt	4.4	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Cobalt	9.3	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Cobalt	6.2	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Cobalt	4.7	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Cobalt	11.2	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Cobalt	12.5	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Cobalt	11.6	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Cobalt	11.9	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Cobalt	10.8	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Cobalt	16.3	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Cobalt	14.6	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Cobalt	9.5	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Cobalt	10.6	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Cobalt	12.2	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Cobalt	8.8	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Cobalt	11.4	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Cobalt	8.8	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Cobalt	8.1	J	mg/kg		1.3	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Cobalt	8.9	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Cobalt	8.7	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Cobalt	9.5	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Cobalt	8.3		mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Cobalt	10		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Cobalt	9.3	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Cobalt	8.8		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Cobalt	7		mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Cobalt	9.7		mg/kg		1	0.064	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Cobalt	8.4	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Cobalt	10.2	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Cobalt	8.8	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Cobalt	10.1	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Cobalt	10.3	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Cobalt	9.9	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Cobalt	9.5	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Cobalt	9.7	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Cobalt	10.2	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Cobalt	9.6		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Cobalt	6.4		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Cobalt	9		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Cobalt	9.4	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Cobalt	8.6		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Cobalt	10.2		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Cobalt	8.4		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Cobalt	7.1		mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Cobalt	10.2		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Cobalt	10.4	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Cobalt	9.4	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Cobalt	9.5	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Cobalt	9	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Cobalt	14.8	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Cobalt	8.1	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Cobalt	9.4	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Cobalt	9.1	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Cobalt	9.2	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Cobalt	12.2	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Cobalt	9.7	J	mg/kg		1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Cobalt	11.3	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Cobalt	10.1	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Cobalt	11.1	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Cobalt	8.2	J	mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Cobalt	9.9	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Cobalt	12.2	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Cobalt	11.3	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Cobalt	9.4	J	mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Cobalt	7.7	J	mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Cobalt	7.9	J	mg/kg		1.1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Cobalt	9.3		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Cobalt	8		mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Cobalt	9.2		mg/kg		1	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Cobalt	7.4		mg/kg		1	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Cobalt	7.3		mg/kg		1.1	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Cobalt	7.6		mg/kg		1	0.064	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Cobalt-57	-0.02	U	pCi/g	0.034	0.056	0.056	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Cobalt-57	-0.022	U	pCi/g	0.028	0.045	0.045	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Cobalt-57	0.021	U	pCi/g	0.034	0.061	0.061	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Cobalt-57	0.009	U	pCi/g	0.03	0.052	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Cobalt-57	0.022	U	pCi/g	0.034	0.062	0.062	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Cobalt-57	0.027	U	pCi/g	0.031	0.056	0.056	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Cobalt-57	0.007	U	pCi/g	0.031	0.054	0.054	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Cobalt-57	-0.003	U	pCi/g	0.034	0.058	0.058	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Cobalt-57	0.011	U	pCi/g	0.035	0.063	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Cobalt-57	0.007	U	pCi/g	0.031	0.053	0.053	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Cobalt-57	-0.007	U	pCi/g	0.033	0.057	0.057	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Cobalt-57	0.012	U	pCi/g	0.029	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Cobalt-57	-0.024	U	pCi/g	0.03	0.049	0.049	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Cobalt-57	0.0003	U	pCi/g	0.035	0.061	0.061	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Cobalt-57	-0.004	U	pCi/g	0.031	0.052	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Cobalt-57	-0.009	U	pCi/g	0.031	0.051	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Cobalt-57	0.004	U	pCi/g	0.035	0.062	0.062	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Cobalt-57	0.002	U	pCi/g	0.03	0.051	0.051	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Cobalt-57	0.006	U	pCi/g	0.035	0.061	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Cobalt-57	-0.01	U	pCi/g	0.033	0.057	0.057	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Cobalt-57	0.011	U	pCi/g	0.033	0.058	0.058	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Cobalt-57	-0.009	U	pCi/g	0.03	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Cobalt-57	-0.012	U	pCi/g	0.035	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Cobalt-57	-0.002	U	pCi/g	0.028	0.046	0.046	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Cobalt-57	0.025	U	pCi/g	0.036	0.066	0.066	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Cobalt-57	-0.025	U	pCi/g	0.031	0.049	0.049	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Cobalt-57	0.001	U	pCi/g	0.033	0.059	0.059	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Cobalt-57	-0.029	U	pCi/g	0.031	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Cobalt-57	0.005	U	pCi/g	0.025	0.043	0.043	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Cobalt-57	-0.005	U	pCi/g	0.027	0.045	0.045	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Cobalt-57	-0.011	U	pCi/g	0.028	0.048	0.048	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Cobalt-57	-0.006	U	pCi/g	0.031	0.053	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Cobalt-57	-0.032	U	pCi/g	0.028	0.042	0.042	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Cobalt-57	0.01	U	pCi/g	0.03	0.055	0.055	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Cobalt-57	0.008	U	pCi/g	0.03	0.054	0.054	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Cobalt-57	-0.027	U	pCi/g	0.027	0.042	0.042	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Cobalt-57	0.012	U	pCi/g	0.028	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Cobalt-57	0.016	U	pCi/g	0.029	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Cobalt-57	-0.037	U	pCi/g	0.037	0.061	0.061	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Cobalt-57	0.002	U	pCi/g	0.029	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Cobalt-57	-0.021	U	pCi/g	0.031	0.053	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Cobalt-57	0.002	U	pCi/g	0.029	0.049	0.049	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Cobalt-57	0.007	U	pCi/g	0.031	0.053	0.053	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Cobalt-57	0.013	U	pCi/g	0.03	0.054	0.054	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Cobalt-57	-0.045	U	pCi/g	0.031	0.047	0.047	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Cobalt-57	-0.001	U	pCi/g	0.033	0.057	0.057	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Cobalt-57	0.009	U	pCi/g	0.033	0.058	0.058	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Cobalt-57	0.014	U	pCi/g	0.031	0.054	0.054	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Cobalt-57	-0.002	U	pCi/g	0.033	0.058	0.058	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Cobalt-57	-0.031	U	pCi/g	0.036	0.056	0.056	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Cobalt-57	0.03	U	pCi/g	0.035	0.064	0.064	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Cobalt-57	-0.004	U	pCi/g	0.026	0.044	0.044	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Cobalt-57	0.005	U	pCi/g	0.031	0.054	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Cobalt-57	0.026	U	pCi/g	0.029	0.052	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Cobalt-57	-0.014	U	pCi/g	0.031	0.052	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Cobalt-57	0.017	U	pCi/g	0.031	0.056	0.056	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Cobalt-57	-0.002	U	pCi/g	0.027	0.046	0.046	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Cobalt-57	0.016	U	pCi/g	0.03	0.055	0.055	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Cobalt-57	-0.01	U	pCi/g	0.029	0.051	0.051	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Cobalt-57	0.029	U	pCi/g	0.031	0.055	0.055	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Cobalt-57	0.001	U	pCi/g	0.031	0.055	0.055	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Cobalt-57	0.015	U	pCi/g	0.029	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Cobalt-57	-0.014	U	pCi/g	0.029	0.048	0.048	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Cobalt-57	-0.014	U	pCi/g	0.032	0.054	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Cobalt-57	0.005	U	pCi/g	0.026	0.045	0.045	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Cobalt-57	0.013	U	pCi/g	0.031	0.054	0.054	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Cobalt-57	-0.004	U	pCi/g	0.034	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Cobalt-57	-0.002	U	pCi/g	0.028	0.048	0.048	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Cobalt-57	0.022	U	pCi/g	0.034	0.062	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Cobalt-57	-0.029	U	pCi/g	0.03	0.048	0.048	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Cobalt-57	-0.01	U	pCi/g	0.035	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Cobalt-57	0.014	U	pCi/g	0.028	0.049	0.049	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Cobalt-57	0.005	U	pCi/g	0.033	0.058	0.058	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Cobalt-57	-0.009	U	pCi/g	0.031	0.051	0.051	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Cobalt-57	-0.024	U	pCi/g	0.032	0.053	0.053	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Cobalt-57	0.021	U	pCi/g	0.028	0.049	0.049	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Cobalt-57	-0.005	U	pCi/g	0.032	0.055	0.055	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Cobalt-57	-0.0007	U	pCi/g	0.028	0.047	0.047	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Cobalt-57	0.013	U	pCi/g	0.032	0.057	0.057	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Cobalt-57	-0.0003	U	pCi/g	0.027	0.045	0.045	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Cobalt-57	-0.002	U	pCi/g	0.027	0.045	0.045	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Cobalt-57	0.009	U	pCi/g	0.034	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Cobalt-57	0.025	U	pCi/g	0.031	0.054	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Cobalt-57	-0.016	U	pCi/g	0.032	0.053	0.053	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Cobalt-57	-0.008	U	pCi/g	0.033	0.056	0.056	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Cobalt-57	0.04	U	pCi/g	0.028	0.052	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Cobalt-57	0.018	U	pCi/g	0.033	0.059	0.059	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Cobalt-57	0.009	U	pCi/g	0.026	0.046	0.046	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Cobalt-57	0.007	U	pCi/g	0.031	0.055	0.055	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Cobalt-57	-0.031	U	pCi/g	0.033	0.053	0.053	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Cobalt-57	0.011	U	pCi/g	0.029	0.051	0.051	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Cobalt-57	0.018	U	pCi/g	0.031	0.054	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Cobalt-57	-0.005	U	pCi/g	0.029	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Cobalt-57	-0.014	U	pCi/g	0.032	0.055	0.055	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Cobalt-57	0.019	U	pCi/g	0.029	0.052	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Cobalt-60	-0.009	U	pCi/g	0.057	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Cobalt-60	0.05	U	pCi/g	0.055	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Cobalt-60	0.037	U	pCi/g	0.058	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Cobalt-60	0.024	U	pCi/g	0.061	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Cobalt-60	-0.033	U	pCi/g	0.06	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Cobalt-60	0.028	U	pCi/g	0.064	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Cobalt-60	-0.012	U	pCi/g	0.062	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Cobalt-60	-0.001	U	pCi/g	0.066	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Cobalt-60	-0.003	U	pCi/g	0.069	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Cobalt-60	-0.058	U	pCi/g	0.071	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Cobalt-60	0.065	U	pCi/g	0.062	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Cobalt-60	0.013	U	pCi/g	0.051	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Cobalt-60	0.019	U	pCi/g	0.062	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Cobalt-60	-0.014	U	pCi/g	0.07	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Cobalt-60	-0.018	U	pCi/g	0.065	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Cobalt-60	0.044	U	pCi/g	0.056	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Cobalt-60	-0.038	U	pCi/g	0.061	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Cobalt-60	0.007	U	pCi/g	0.065	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Cobalt-60	-0.073	U	pCi/g	0.065	0.093	0.093	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Cobalt-60	-0.023	U	pCi/g	0.058	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Cobalt-60	0.049	U	pCi/g	0.063	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Cobalt-60	-0.022	U	pCi/g	0.062	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Cobalt-60	-0.034	U	pCi/g	0.057	0.098	0.098	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Cobalt-60	0.002	U	pCi/g	0.058	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Cobalt-60	0.014	U	pCi/g	0.054	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Cobalt-60	-0.054	U	pCi/g	0.055	0.085	0.085	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Cobalt-60	0.009	U	pCi/g	0.06	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Cobalt-60	0.006	U	pCi/g	0.049	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Cobalt-60	-0.013	U	pCi/g	0.049	0.088	0.088	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Cobalt-60	0.026	U	pCi/g	0.049	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Cobalt-60	-0.009	U	pCi/g	0.045	0.088	0.088	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Cobalt-60	-0.026	U	pCi/g	0.043	0.074	0.074	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Cobalt-60	-0.02	U	pCi/g	0.05	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Cobalt-60	0.026	U	pCi/g	0.049	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Cobalt-60	-0.053	U	pCi/g	0.059	0.095	0.095	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Cobalt-60	0.04	U	pCi/g	0.051	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Cobalt-60	0.028	U	pCi/g	0.055	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Cobalt-60	-0.017	U	pCi/g	0.055	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Cobalt-60	-0.011	U	pCi/g	0.06	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Cobalt-60	-0.005	U	pCi/g	0.052	0.097	0.097	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Cobalt-60	-0.012	U	pCi/g	0.049	0.091	0.091	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Cobalt-60	0.061	U	pCi/g	0.059	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Cobalt-60	0.011	U	pCi/g	0.05	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Cobalt-60	0.025	U	pCi/g	0.059	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Cobalt-60	0.071	U	pCi/g	0.058	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Cobalt-60	0.011	U	pCi/g	0.06	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Cobalt-60	-0.052	U	pCi/g	0.069	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Cobalt-60	0.003	U	pCi/g	0.067	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Cobalt-60	0.015	U	pCi/g	0.052	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Cobalt-60	0.011	U	pCi/g	0.066	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Cobalt-60	-0.017	U	pCi/g	0.062	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Cobalt-60	0.023	U	pCi/g	0.048	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Cobalt-60	0.015	U	pCi/g	0.046	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Cobalt-60	0.011	U	pCi/g	0.061	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Cobalt-60	-0.008	U	pCi/g	0.059	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Cobalt-60	0.043	U	pCi/g	0.047	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Cobalt-60	-0.053	U	pCi/g	0.06	0.097	0.097	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Cobalt-60	0.013	U	pCi/g	0.05	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Cobalt-60	-0.009	U	pCi/g	0.05	0.096	0.096	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Cobalt-60	-0.028	U	pCi/g	0.064	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Cobalt-60	0.04	U	pCi/g	0.055	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Cobalt-60	-0.019	U	pCi/g	0.059	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Cobalt-60	0.011	U	pCi/g	0.062	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Cobalt-60	-0.009	U	pCi/g	0.061	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Cobalt-60	-0.042	U	pCi/g	0.05	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Cobalt-60	0.034	U	pCi/g	0.074	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Cobalt-60	-0.003	U	pCi/g	0.062	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Cobalt-60	0.044	U	pCi/g	0.046	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Cobalt-60	0.008	U	pCi/g	0.06	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Cobalt-60	0.013	U	pCi/g	0.056	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Cobalt-60	0.04	U	pCi/g	0.062	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Cobalt-60	-0.001	U	pCi/g	0.051	0.097	0.097	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Cobalt-60	-0.017	U	pCi/g	0.063	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Cobalt-60	0.024	U	pCi/g	0.06	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Cobalt-60	0.008	U	pCi/g	0.057	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Cobalt-60	0.038	U	pCi/g	0.058	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Cobalt-60	-0.03	U	pCi/g	0.054	0.093	0.093	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Cobalt-60	-0.049	U	pCi/g	0.048	0.073	0.073	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Cobalt-60	-0.015	U	pCi/g	0.056	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Cobalt-60	0.003	U	pCi/g	0.052	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Cobalt-60	0.006	U	pCi/g	0.058	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Cobalt-60	0.023	U	pCi/g	0.061	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Cobalt-60	0.014	U	pCi/g	0.054	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Cobalt-60	-0.025	U	pCi/g	0.056	0.099	0.099	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Cobalt-60	0.002	U	pCi/g	0.051	0.1	0.1	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Cobalt-60	-0.017	U	pCi/g	0.051	0.095	0.095	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Cobalt-60	-0.004	U	pCi/g	0.051	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Cobalt-60	-0.055	U	pCi/g	0.052	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Cobalt-60	-0.025	U	pCi/g	0.061	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Cobalt-60	-0.041	U	pCi/g	0.053	0.086	0.086	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Cobalt-60	0.026	U	pCi/g	0.057	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Cobalt-60	0.013	U	pCi/g	0.048	0.099	0.099	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Cobalt-60	0.012	U	pCi/g	0.046	0.097	0.097	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Cobalt-60	-0.028	U	pCi/g	0.055	0.098	0.098	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Cobalt-60	0.004	U	pCi/g	0.06	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Copper	23.7		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Copper	12		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Copper	17.9		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Copper	18.2		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Copper	14.7		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Copper	10.2		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Copper	16.7		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Copper	11.9		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Copper	11		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Copper	13.7		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Copper	13.5		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Copper	14.9		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Copper	18.6		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Copper	20.6		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Copper	14.7		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Copper	19.1		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Copper	13.6		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Copper	15.7		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Copper	17.8		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Copper	24.2		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Copper	14.6		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Copper	17		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Copper	14.4		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Copper	12.8		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Copper	18.7		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Copper	15.4		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Copper	14.6		mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Copper	19.9	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Copper	22.7	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Copper	19.8	J	mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Copper	19.6	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Copper	17.6	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Copper	22.1	J	mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Copper	23.8	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Copper	15.7		mg/kg		1	0.2205	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Copper	20.9	J	mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Copper	18.2	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Copper	23.9	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Copper	20.5	J	mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Copper	18.2		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Copper	15.3		mg/kg		1.3	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Copper	16.7		mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Copper	22.9	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Copper	18.6		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Copper	15.5		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Copper	19		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Copper	21	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Copper	18.7		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Copper	13.8		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Copper	19.9		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Copper	15.4	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Copper	17.1	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Copper	17.2	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Copper	19.2	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Copper	19	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Copper	16.1	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Copper	19.1	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Copper	18.8	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Copper	19.1	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Copper	20.4		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Copper	13.1		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Copper	13.3		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Copper	16.6	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Copper	15		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Copper	15.2		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Copper	17.2		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Copper	13.6		mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Copper	17		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Copper	21	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Copper	20.3	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Copper	20.9	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Copper	18.5	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Copper	22.9	J	mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Copper	17.1	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Copper	19	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Copper	19.7	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Copper	20.4	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Copper	25.9	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Copper	20.8	J	mg/kg		1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Copper	23.9	J	mg/kg		1	0.2205	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Copper	23.1	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Copper	19.6	J	mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Copper	22.5	J	mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Copper	19.6	J	mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Copper	21.2	J	mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Copper	21.7	J	mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Copper	19.5		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Copper	13.3		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Copper	17		mg/kg		1.1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Copper	17.2		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Copper	15.4		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Copper	14.5		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Copper	14.8		mg/kg		1	0.2205	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Copper	15.2		mg/kg		1.1	0.2205	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Copper	13.8		mg/kg		1	0.2205	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Fluoride	1.2	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Fluoride	0.72	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Fluoride	0.36	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Fluoride	0.6	U	mg/kg		1	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Fluoride	0.051	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Fluoride	0.051	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Fluoride	0.36	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Fluoride	0.051	U	mg/kg		1	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Fluoride	0.32	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Fluoride	0.34	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Fluoride	0.051	U	mg/kg		1	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Fluoride	0.76	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Fluoride	0.32	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Fluoride	0.051	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Fluoride	0.4	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Fluoride	0.63	U	mg/kg		1	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Fluoride	1	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Fluoride	0.32	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Fluoride	0.23	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Fluoride	0.29	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Fluoride	0.76	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Fluoride	2.5	J+	mg/kg		1.1	0.054	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Fluoride	0.89	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Fluoride	1.5	U	mg/kg		1.1	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Fluoride	1	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Fluoride	1.6	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Fluoride	2.1	U	mg/kg		1.1	0.055	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Fluoride	0.051	U	mg/kg		1.3	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Fluoride	0.051	U	mg/kg		1.1	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Fluoride	0.051	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Fluoride	0.051	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Fluoride	0.051	U	mg/kg		10.2	0.52	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Fluoride	0.051	U	mg/kg		10.3	0.52	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Fluoride	1.1		mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Fluoride	0.051	U	mg/kg		20.7	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Fluoride	0.37	B	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Fluoride	0.31	B	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Fluoride	0.16	B	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Fluoride	0.61	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Fluoride	0.55	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Fluoride	0.79	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Fluoride	0.79	B	mg/kg		1	0.052	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Fluoride	0.46	B	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Fluoride	0.52	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Fluoride	0.77	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Fluoride	0.75	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Fluoride	0.36	B	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Fluoride	0.31	B	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Fluoride	0.94	B	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Fluoride	0.5	B	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Fluoride	0.051	U	mg/kg		1	0.052	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Fluoride	0.67	B	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Fluoride	0.77	B	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Fluoride	0.58	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Fluoride	0.93	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Fluoride	1.4	U	mg/kg		1	0.053	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Fluoride	1	U	mg/kg		1	0.052	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Fluoride	0.051	U	mg/kg		1	0.052	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Fluoride	1.2	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Fluoride	1.6	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Fluoride	0.051	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Fluoride	0.051	U	mg/kg		1.1	0.054	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Fluoride	0.051	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Fluoride	0.051	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Fluoride	0.051	U	mg/kg		1	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Fluoride	0.051	U	mg/kg		1.1	0.054	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Fluoride	0.24	U	mg/kg		1	0.053	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Iron	15100		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Iron	6640		mg/kg		10.3	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Iron	6870		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Iron	14400		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Iron	8260		mg/kg		10.3	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Iron	5410		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Iron	13300		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Iron	6350		mg/kg		10.3	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Iron	5510		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Iron	10500		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Iron	9430		mg/kg		10.2	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Iron	10200		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Iron	13200		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Iron	11200		mg/kg		10.2	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Iron	9170		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Iron	12500		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Iron	9450		mg/kg		10.3	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Iron	10100		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Iron	13200		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Iron	8890		mg/kg		10.2	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Iron	8100		mg/kg		10.2	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Iron	12100		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Iron	9780		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Iron	7400		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Iron	15500		mg/kg		10.1	1.173	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Iron	8940		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Iron	6570		mg/kg		10.5	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Iron	16800		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Iron	18600		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Iron	16800		mg/kg		10.7	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Iron	18300		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Iron	18800		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Iron	19100		mg/kg		10.5	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Iron	16600		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Iron	19700		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Iron	18500		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Iron	17400		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Iron	10500		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Iron	16200		mg/kg		10.8	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Iron	14500		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Iron	11900		mg/kg		12.6	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Iron	14700		mg/kg		10.6	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Iron	10700		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Iron	15700		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Iron	12300		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Iron	12300		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Iron	10700		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Iron	11700		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Iron	8740		mg/kg		10.6	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Iron	14100		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Iron	16600		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Iron	17000		mg/kg		10.2	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Iron	14100		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Iron	17200		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Iron	15500		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Iron	15300		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Iron	17900		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Iron	16100		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Iron	15600		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Iron	16700		mg/kg		10.2	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Iron	10200		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Iron	13500		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Iron	16900		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Iron	16500		mg/kg		10.3	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Iron	13500		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Iron	17400		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Iron	13100		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Iron	14900		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Iron	15200		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Iron	14000		mg/kg		10.3	1.173	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Iron	12500		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Iron	12100		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Iron	13000		mg/kg		10.6	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Iron	12300		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Iron	14600		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Iron	12600		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Iron	13200		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Iron	13700		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Iron	14600		mg/kg		10.4	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Iron	14300		mg/kg		10.5	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Iron	9030		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Iron	14200		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Iron	11700		mg/kg		10.3	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Iron	17400	J	mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Iron	16600	J	mg/kg		10.6	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Iron	14900	J	mg/kg		10.5	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Iron	16300		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Iron	11400		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Iron	12700		mg/kg		10.6	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Iron	15100		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Iron	12400		mg/kg		10.5	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Iron	8790		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Iron	12800		mg/kg		10.1	1.173	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Iron	11400		mg/kg		10.6	1.173	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Iron	10400		mg/kg		10.4	1.173	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lead	11.5	J	mg/kg		0.31	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lead	4.9	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lead	4.5	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lead	11.8	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lead	6.2	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lead	3	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lead	12.2	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lead	5	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lead	3.6	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lead	7.5	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lead	6.6	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lead	6	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lead	9.2	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lead	6.8	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lead	5.7	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lead	9	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lead	6.6		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lead	7.2		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lead	11		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lead	5.7		mg/kg		0.31	0.0506	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lead	4.8		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lead	9.6		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lead	6		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lead	4.2		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lead	11.9		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lead	6.5		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lead	4.4		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lead	7.3		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lead	7.2		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lead	6.3		mg/kg		0.32	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lead	8.2		mg/kg		0.31	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lead	7.7		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lead	7.3		mg/kg		0.32	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lead	6		mg/kg		0.31	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lead	9.4		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lead	6.6		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lead	6.7		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lead	9.1		mg/kg		0.31	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lead	6.4		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lead	9.1	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lead	6.7	J	mg/kg		0.38	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lead	7.8	J	mg/kg		0.32	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lead	8.1		mg/kg		0.31	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lead	7.9	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lead	6.9		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lead	6		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lead	8		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lead	7.6		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lead	5.3		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lead	7.7		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lead	10.3		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lead	9.2		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lead	5.3		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lead	10.5		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lead	6.9		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lead	6.7		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lead	10.9		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lead	7.2		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lead	5.6		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lead	10.1	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lead	5.9	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lead	6	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lead	10.9		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lead	10.9	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lead	6.8	J	mg/kg		0.31	0.0506	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lead	12.2	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lead	7.3	J	mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lead	6.3	J	mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lead	9.3		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lead	6.5		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lead	5.9		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lead	7.4		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lead	7.8		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lead	7.3		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lead	10.5		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lead	7.2		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lead	6.3		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lead	25.6		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lead	9.3		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lead	6.6		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lead	35.1		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lead	9.8		mg/kg		0.31	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lead	5.9		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lead	11.1		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lead	8.8		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lead	5.6		mg/kg		0.32	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lead	19.1	J	mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lead	5.7	J	mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lead	6.3	J	mg/kg		0.32	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lead	16.4		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lead	6.9		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lead	4.9		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lead	13.7		mg/kg		0.3	0.0506	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lead	6.4		mg/kg		0.32	0.0506	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lead	5.7		mg/kg		0.31	0.0506	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lead-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lead-210	1.04	U	pCi/g	0.996	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lead-210	0.7	U	pCi/g	1.4	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lead-210	1.6	U	pCi/g	1.4	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lead-210	1.2	U	pCi/g	1.3	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lead-210	0.5	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lead-210	0.9	U	pCi/g	1.4	2.5	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lead-210	1.6	U	pCi/g	1.4	2.7	2.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lead-210	0.7	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lead-210	1.9	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lead-210	0.3	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lead-210	1	U	pCi/g	1.1	1.7	1.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lead-210	1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lead-210	1.4	U	pCi/g	1.3	2.4	2.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lead-210	0.6	U	pCi/g	1	1.9	1.9	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lead-210	-0.05	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lead-210	0.5	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lead-210	0.009	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lead-210	1.5	U	pCi/g	1.3	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lead-210	0.5	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lead-210	1.6	U	pCi/g	1.3	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lead-210	0.5	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lead-210	-0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lead-210	0.3	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lead-210	2	U	pCi/g	1.4	2.8	2.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lead-210	0.1	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lead-210	1.1	U	pCi/g	1.3	2.3	2.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lead-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lead-210	-0.2	U	pCi/g	1	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lead-210	2.2		pCi/g	1.6	1.5	1.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lead-210	0.3	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lead-210	0.2	U	pCi/g	1.1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lead-210	0.81	U	pCi/g	0.91	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lead-210	0.2	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lead-210	0.06	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lead-210	-0.3	U	pCi/g	0.94	1.7	1.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lead-210	-0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lead-210	-0.3	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lead-210	0.8	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lead-210	1.7	U	pCi/g	1.1	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lead-210	1.7	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lead-210	0.09	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lead-210	0.4	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lead-210	0.4	U	pCi/g	1.1	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lead-210	0.36	U	pCi/g	0.98	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lead-210	0.3	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lead-210	0.7	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lead-210	0.7	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lead-210	-0.5	U	pCi/g	1.3	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lead-210	0.3	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lead-210	0.5	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lead-210	0.18	U	pCi/g	0.99	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lead-210	0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lead-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lead-210	-0.1	U	pCi/g	1.2	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lead-210	0.2	U	pCi/g	1.1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lead-210	1.19	U	pCi/g	0.98	1.9	1.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lead-210	0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lead-210	0.6	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lead-210	0.6	U	pCi/g	1.1	2.1	2.1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lead-210	0.6	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lead-210	0.8	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lead-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lead-210	0.6	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lead-210	1.1	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lead-210	1.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lead-210	0.2	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lead-210	0.8	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lead-210	0.4	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lead-210	0.2	U	pCi/g	1.1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lead-210	0.4	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lead-210	0.63	U	pCi/g	0.97	1.8	1.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lead-210	0.8	U	pCi/g	1.3	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lead-210	0.7	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lead-210	-0.002	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lead-210	0.2	U	pCi/g	1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lead-210	1.2	U	pCi/g	1.2	2.4	2.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lead-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lead-210	-0.3	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lead-210	0.91	U	pCi/g	0.96	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lead-210	0.6	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lead-210	0.2	U	pCi/g	1.4	2.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lead-210	0.9	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lead-210	0.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lead-210	-0.1	U	pCi/g	1.2	2.1	2.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lead-210	1.3	U	pCi/g	0.98	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lead-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lead-210	0.33	U	pCi/g	0.97	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lead-210	0.7	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lead-210	0.6	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lead-210	-0.2	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lead-210	0.7	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lead-210	0.6	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lead-210	0.5	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lead-210	1.7	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lead-211	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lead-211	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lead-211	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lead-211	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lead-211	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lead-211	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lead-211	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lead-211	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lead-211	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lead-211	0.34	U	pCi/g	0.44	0.81	0.81	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lead-211	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lead-211	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lead-211	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lead-211	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lead-211	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lead-211	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lead-211	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lead-211	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lead-211	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lead-211	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lead-211	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lead-211	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lead-211	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lead-211	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lead-211	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lead-211	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lead-211	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lead-211	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lead-211	-0.11	U	pCi/g	0.36	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lead-211	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lead-211	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lead-211	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lead-211	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lead-211	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lead-211	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lead-211	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lead-211	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lead-211	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lead-211	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lead-211	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lead-211	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lead-211	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lead-211	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lead-211	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lead-211	-0.13	U	pCi/g	0.41	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lead-211	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lead-211	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lead-211	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lead-211	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lead-211	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lead-211	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lead-211	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lead-211	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lead-211	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lead-211	-0.02	U	pCi/g	0.42	0.72	0.72	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lead-211	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lead-211	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lead-211	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lead-211	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lead-211	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lead-211	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lead-211	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lead-211	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lead-211	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lead-211	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lead-211	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lead-211	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lead-211	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lead-211	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lead-211	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lead-211	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lead-211	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lead-211	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lead-211	-0.27	U	pCi/g	0.45	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lead-211	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lead-211	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lead-211	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lead-211	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lead-211	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lead-211	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lead-211	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lead-211	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lead-211	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lead-211	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lead-211	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lead-211	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lead-211	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lead-211	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lead-211	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lead-211	-0.15	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lead-211	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lead-211	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lead-211	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lead-211	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lead-211	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lead-212	1.69		pCi/g	0.3	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lead-212	1.58		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lead-212	1.58		pCi/g	0.28	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lead-212	1.93		pCi/g	0.28	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lead-212	1.71		pCi/g	0.26	0.13	0.13	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lead-212	1.88		pCi/g	0.28	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lead-212	1.74		pCi/g	0.26	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lead-212	1.65		pCi/g	0.26	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lead-212	1.71		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lead-212	1.86		pCi/g	0.27	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lead-212	1.92		pCi/g	0.28	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lead-212	1.62		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lead-212	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lead-212	1.72		pCi/g	0.31	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lead-212	1.72		pCi/g	0.27	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lead-212	1.77		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lead-212	1.72		pCi/g	0.32	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lead-212	1.78		pCi/g	0.26	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lead-212	1.63		pCi/g	0.28	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lead-212	1.6		pCi/g	0.28	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lead-212	1.73		pCi/g	0.29	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lead-212	1.73		pCi/g	0.25	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lead-212	1.76		pCi/g	0.27	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lead-212	1.43		pCi/g	0.25	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lead-212	1.93		pCi/g	0.33	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lead-212	1.61		pCi/g	0.24	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lead-212	1.64		pCi/g	0.25	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lead-212	1.08		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lead-212	1.25		pCi/g	0.19	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lead-212	1.22		pCi/g	0.2	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lead-212	1.34		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lead-212	1.2		pCi/g	0.23	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lead-212	1.29		pCi/g	0.22	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lead-212	1.08		pCi/g	0.23	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lead-212	1.2		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lead-212	1.37		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lead-212	1.33		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lead-212	1.9		pCi/g	0.27	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lead-212	1.93		pCi/g	0.29	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lead-212	1.37		pCi/g	0.24	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lead-212	1.64		pCi/g	0.28	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lead-212	1.82		pCi/g	0.28	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lead-212	1.98		pCi/g	0.29	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lead-212	1.61		pCi/g	0.28	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lead-212	1.77		pCi/g	0.26	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lead-212	2.11		pCi/g	0.31	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lead-212	1.8		pCi/g	0.28	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lead-212	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lead-212	1.73		pCi/g	0.29	0.23	0.23	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lead-212	1.98		pCi/g	0.32	0.25	0.25	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lead-212	1.62		pCi/g	0.25	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lead-212	1.24		pCi/g	0.23	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lead-212	1.25		pCi/g	0.24	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lead-212	1.46		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lead-212	1.29		pCi/g	0.24	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lead-212	1.4		pCi/g	0.22	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lead-212	1.42		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lead-212	1.08		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lead-212	1.2		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lead-212	1.74		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lead-212	1.22		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lead-212	1.21		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lead-212	1.54		pCi/g	0.23	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lead-212	1.52		pCi/g	0.25	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lead-212	1.36		pCi/g	0.2	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lead-212	1.74		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lead-212	1.3		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lead-212	1.4		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lead-212	1.69		pCi/g	0.3	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lead-212	1.45		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lead-212	1.97		pCi/g	0.29	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lead-212	1.38		pCi/g	0.23	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lead-212	1.53		pCi/g	0.27	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lead-212	1.89		pCi/g	0.27	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lead-212	1.76		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lead-212	1.54		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lead-212	1.69		pCi/g	0.3	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lead-212	1.27		pCi/g	0.2	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lead-212	1.41		pCi/g	0.25	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lead-212	1.62		pCi/g	0.28	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lead-212	1.13		pCi/g	0.22	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lead-212	1.72		pCi/g	0.3	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lead-212	1.64		pCi/g	0.28	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lead-212	1.3		pCi/g	0.23	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lead-212	1.43		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lead-212	1.58		pCi/g	0.24	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lead-212	1.56		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lead-212	1.26		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lead-212	1.36		pCi/g	0.24	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lead-212	1.49		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lead-212	1.75		pCi/g	0.26	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lead-212	1.45		pCi/g	0.22	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lead-212	1.44		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lead-212	1.65		pCi/g	0.25	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lead-212	1.51		pCi/g	0.23	0.12	0.12	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lead-214	0.97		pCi/g	0.23	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lead-214	1.13		pCi/g	0.24	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lead-214	1.25		pCi/g	0.26	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lead-214	1.05		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lead-214	1.03		pCi/g	0.24	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lead-214	1.68		pCi/g	0.3	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lead-214	1.19		pCi/g	0.25	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lead-214	1.22		pCi/g	0.28	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lead-214	1.62		pCi/g	0.3	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lead-214	1.07		pCi/g	0.22	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lead-214	0.89		pCi/g	0.2	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lead-214	0.97		pCi/g	0.2	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lead-214	0.96		pCi/g	0.21	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lead-214	1.1		pCi/g	0.25	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lead-214	1.01		pCi/g	0.23	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lead-214	0.93		pCi/g	0.22	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lead-214	1.2		pCi/g	0.29	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lead-214	1.11		pCi/g	0.23	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lead-214	1.11		pCi/g	0.27	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lead-214	1.03		pCi/g	0.24	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lead-214	0.99		pCi/g	0.24	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lead-214	0.85		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lead-214	1.05		pCi/g	0.24	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lead-214	1.14		pCi/g	0.22	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lead-214	1.12		pCi/g	0.22	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lead-214	0.88		pCi/g	0.19	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lead-214	1.62		pCi/g	0.31	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lead-214	0.75		pCi/g	0.2	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lead-214	0.77		pCi/g	0.17	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lead-214	0.73		pCi/g	0.18	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lead-214	0.77		pCi/g	0.22	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lead-214	0.86		pCi/g	0.19	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lead-214	0.69		pCi/g	0.16	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lead-214	0.81		pCi/g	0.22	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lead-214	0.82		pCi/g	0.21	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lead-214	0.74		pCi/g	0.18	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lead-214	0.77		pCi/g	0.21	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lead-214	0.98		pCi/g	0.21	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lead-214	1.08		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lead-214	0.96		pCi/g	0.23	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lead-214	0.86		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lead-214	0.96		pCi/g	0.22	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lead-214	0.87		pCi/g	0.25	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lead-214	0.88		pCi/g	0.22	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lead-214	0.88		pCi/g	0.22	0.15	0.15	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lead-214	0.97		pCi/g	0.22	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lead-214	0.79		pCi/g	0.24	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lead-214	0.97		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lead-214	0.89		pCi/g	0.22	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lead-214	1.23		pCi/g	0.25	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lead-214	0.83		pCi/g	0.22	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lead-214	0.8		pCi/g	0.18	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lead-214	1.49		pCi/g	0.29	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lead-214	0.98		pCi/g	0.23	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lead-214	0.8		pCi/g	0.26	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lead-214	1		pCi/g	0.23	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lead-214	0.84		pCi/g	0.19	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lead-214	0.88		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lead-214	0.82		pCi/g	0.21	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lead-214	1.09		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lead-214	1.31		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lead-214	1.2		pCi/g	0.23	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lead-214	1.17		pCi/g	0.24	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lead-214	0.8		pCi/g	0.23	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lead-214	1.16		pCi/g	0.23	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lead-214	0.93		pCi/g	0.21	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lead-214	1.72		pCi/g	0.3	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lead-214	1.24		pCi/g	0.26	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lead-214	0.93		pCi/g	0.24	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lead-214	0.95		pCi/g	0.22	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lead-214	0.98		pCi/g	0.23	0.2	0.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lead-214	0.91		pCi/g	0.22	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lead-214	1.03		pCi/g	0.23	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lead-214	1.07		pCi/g	0.25	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lead-214	0.86		pCi/g	0.21	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lead-214	1		pCi/g	0.22	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lead-214	0.91		pCi/g	0.21	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lead-214	0.85		pCi/g	0.2	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lead-214	0.85		pCi/g	0.24	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lead-214	0.99		pCi/g	0.21	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lead-214	0.93		pCi/g	0.21	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lead-214	0.88		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lead-214	1.1		pCi/g	0.24	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lead-214	0.85		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lead-214	0.72		pCi/g	0.19	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lead-214	0.83		pCi/g	0.19	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lead-214	0.78		pCi/g	0.2	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lead-214	0.93		pCi/g	0.19	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lead-214	1.54		pCi/g	0.27	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lead-214	0.78		pCi/g	0.21	0.15	0.15	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lead-214	0.97		pCi/g	0.2	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lead-214	1.24		pCi/g	0.25	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lead-214	1		pCi/g	0.22	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lead-214	1.1		pCi/g	0.26	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lead-214	1.48		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Lithium	18		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Lithium	11.5		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Lithium	14		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Lithium	17.5		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Lithium	12.7		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Lithium	13.7		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Lithium	18.2		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Lithium	10		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Lithium	12.1		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Lithium	12.9		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Lithium	10.8		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Lithium	11.9		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Lithium	18.9		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Lithium	11.9		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Lithium	11.5		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Lithium	17.3		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Lithium	10.6		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Lithium	11.8		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Lithium	14.5		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Lithium	11.5		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Lithium	11.8		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Lithium	13.4		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Lithium	12.1		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Lithium	16.5		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Lithium	17.3		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Lithium	10.9		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Lithium	24.9		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Lithium	7.5		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Lithium	9.9		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Lithium	10.1		mg/kg		5.3	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Lithium	8.9		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Lithium	9.4		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Lithium	10		mg/kg		5.3	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Lithium	8.4		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Lithium	10.8		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Lithium	9.8		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Lithium	9.9		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Lithium	9.6		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Lithium	14.3		mg/kg		5.4	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Lithium	11.3		mg/kg		5.1	0.2425	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Lithium	8.7		mg/kg		6.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Lithium	11.7		mg/kg		5.3	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Lithium	8.8		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Lithium	11.1		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Lithium	8.5		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Lithium	12.8		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Lithium	9.2		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Lithium	9.7		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Lithium	8.8		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Lithium	11.5		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Lithium	20.4		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Lithium	21.3		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Lithium	24.4		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Lithium	22		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Lithium	17.1		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Lithium	18.5		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Lithium	20.5		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Lithium	17.3		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Lithium	19.5		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Lithium	23.9		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Lithium	13.6		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Lithium	16.5		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Lithium	18.6		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Lithium	15.3		mg/kg		5.1	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Lithium	15.8		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Lithium	22.2		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Lithium	18.8		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Lithium	26.2		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Lithium	11.8		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Lithium	10.6		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Lithium	13		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Lithium	8.7		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Lithium	11.8		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Lithium	14.1		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Lithium	10.2		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Lithium	11.6		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Lithium	13.4		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Lithium	12.4		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Lithium	14.4		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Lithium	16		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Lithium	10		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Lithium	15.8		mg/kg		5.2	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Lithium	13.4		mg/kg		5.1	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Lithium	13.2		mg/kg		5.1	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Lithium	15.4		mg/kg		5.3	0.2425	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Lithium	14.1		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Lithium	11.9		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Lithium	13.5		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Lithium	26.5		mg/kg		5.3	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Lithium	10.9		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Lithium	13.2		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Lithium	18.3		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Lithium	10.4		mg/kg		5	0.2425	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Lithium	15.9		mg/kg		5.3	0.2425	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Lithium	22.3		mg/kg		5.2	0.2425	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Magnesium	14200	J	mg/kg		50.8	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Magnesium	5470	J	mg/kg		51.6	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Magnesium	8910	J	mg/kg		51.1	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Magnesium	12700	J	mg/kg		50.3	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Magnesium	6370	J	mg/kg		51.4	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Magnesium	5960	J	mg/kg		51.1	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Magnesium	14000	J	mg/kg		50.7	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Magnesium	5070	J	mg/kg		51.6	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Magnesium	6680	J	mg/kg		51.6	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Magnesium	7380	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Magnesium	4690	J	mg/kg		51.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Magnesium	5530	J	mg/kg		50.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Magnesium	10000	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Magnesium	5670	J	mg/kg		51.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Magnesium	5640	J	mg/kg		50.9	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Magnesium	10200	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Magnesium	4960		mg/kg		51.6	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Magnesium	6340		mg/kg		51	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Magnesium	12500		mg/kg		50.3	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Magnesium	7590		mg/kg		51.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Magnesium	6320		mg/kg		51.1	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Magnesium	9550		mg/kg		50.3	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Magnesium	6280		mg/kg		52.5	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Magnesium	10400		mg/kg		51.7	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Magnesium	9240		mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Magnesium	5830		mg/kg		51.9	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Magnesium	16900		mg/kg		52.3	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Magnesium	17500	J	mg/kg		50.8	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Magnesium	12900	J	mg/kg		52.2	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Magnesium	12700	J	mg/kg		53.3	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Magnesium	12200	J	mg/kg		50.8	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Magnesium	11100	J	mg/kg		52.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Magnesium	12500	J	mg/kg		52.5	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Magnesium	13400	J	mg/kg		50.8	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Magnesium	12100		mg/kg		50.4	1.176	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Magnesium	11700	J	mg/kg		52.6	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Magnesium	11100	J	mg/kg		52.2	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Magnesium	9830	J	mg/kg		50.8	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Magnesium	11200	J	mg/kg		54	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Magnesium	9190	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Magnesium	7000	J	mg/kg		63.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Magnesium	8910	J	mg/kg		52.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Magnesium	8470	J	mg/kg		51	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Magnesium	8970	J	mg/kg		50.7	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Magnesium	7090		mg/kg		52.5	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Magnesium	9700		mg/kg		51.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Magnesium	9600	J	mg/kg		50.7	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Magnesium	9750		mg/kg		50.5	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Magnesium	7710		mg/kg		53.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Magnesium	9440		mg/kg		51.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Magnesium	11700	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Magnesium	13600	J	mg/kg		51.2	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Magnesium	13500	J	mg/kg		51.3	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Magnesium	14600	J	mg/kg		50.5	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Magnesium	13600	J	mg/kg		51.8	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Magnesium	12700	J	mg/kg		51.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Magnesium	13400	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Magnesium	12300	J	mg/kg		52	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Magnesium	13000	J	mg/kg		51.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Magnesium	14400	J	mg/kg		50.7	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Magnesium	9370	J	mg/kg		51.9	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Magnesium	11000	J	mg/kg		52	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Magnesium	11400	J	mg/kg		50.5	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Magnesium	8240	J	mg/kg		51.4	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Magnesium	10900	J	mg/kg		52	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Magnesium	11600	J	mg/kg		50.5	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Magnesium	10600	J	mg/kg		51.9	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Magnesium	13500	J	mg/kg		51.7	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Magnesium	10200	J	mg/kg		50.4	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Magnesium	8200	J	mg/kg		51.7	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Magnesium	11600	J	mg/kg		51.6	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Magnesium	8370	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Magnesium	10400	J	mg/kg		53.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Magnesium	9540	J	mg/kg		52.2	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Magnesium	8590	J	mg/kg		50.6	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Magnesium	9440	J	mg/kg		52.2	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Magnesium	11500	J	mg/kg		51.6	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Magnesium	13700	J	mg/kg		50.3	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Magnesium	11000	J	mg/kg		52	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Magnesium	12400	J	mg/kg		52.2	1.176	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Magnesium	10500	J	mg/kg		50.3	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Magnesium	11600	J	mg/kg		52.3	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Magnesium	8450	J	mg/kg		51.4	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Magnesium	10300	J	mg/kg		50.7	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Magnesium	12700	J	mg/kg		53.1	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Magnesium	11600	J	mg/kg		52.5	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Magnesium	10300	J	mg/kg		50.4	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Magnesium	9410	J	mg/kg		52.7	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Magnesium	16600	J	mg/kg		52.8	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Magnesium	8600		mg/kg		50.5	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Magnesium	9360		mg/kg		52.6	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Magnesium	13000		mg/kg		52.1	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Magnesium	8840		mg/kg		50.4	1.176	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Magnesium	11800		mg/kg		52.9	1.176	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Magnesium	14000		mg/kg		51.9	1.176	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Manganese	511		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Manganese	183		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Manganese	339		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Manganese	409		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Manganese	270		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Manganese	157		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Manganese	376		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Manganese	256		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Manganese	151		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Manganese	263		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Manganese	323		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Manganese	266		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Manganese	344		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Manganese	353		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Manganese	290		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Manganese	340		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Manganese	270	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Manganese	339	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Manganese	464	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Manganese	304	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Manganese	198	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Manganese	430	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Manganese	270	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Manganese	191	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Manganese	495	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Manganese	321	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Manganese	169	J	mg/kg		1.1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Manganese	544	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Manganese	618	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Manganese	566	J	mg/kg		1.1	0.0131	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Manganese	550	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Manganese	488	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Manganese	641	J	mg/kg		1.1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Manganese	593	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Manganese	481	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Manganese	471	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Manganese	489	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Manganese	503	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Manganese	369	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Manganese	357		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Manganese	308		mg/kg		1.3	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Manganese	400		mg/kg		1.1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Manganese	407	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Manganese	404		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Manganese	397	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Manganese	433	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Manganese	402	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Manganese	522	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Manganese	268	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Manganese	398	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Manganese	387	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Manganese	553	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Manganese	351	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Manganese	534	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Manganese	478	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Manganese	446	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Manganese	562	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Manganese	559	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Manganese	432	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Manganese	506		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Manganese	291		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Manganese	452		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Manganese	498	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Manganese	683		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Manganese	462		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Manganese	469		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Manganese	366		mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Manganese	529		mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Manganese	414	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Manganese	430	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Manganese	382	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Manganese	438	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Manganese	863	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Manganese	605	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Manganese	434	J	mg/kg		1	0.0131	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Manganese	350	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Manganese	390	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Manganese	460	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Manganese	380	J	mg/kg		1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Manganese	499	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Manganese	282	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Manganese	383	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Manganese	327	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Manganese	445	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Manganese	556	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Manganese	465	J	mg/kg		1.1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Manganese	747		mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Manganese	302		mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Manganese	343		mg/kg		1.1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Manganese	678	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Manganese	312	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Manganese	449	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Manganese	455	J	mg/kg		1	0.0131	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Manganese	288	J	mg/kg		1.1	0.0131	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Manganese	287	J	mg/kg		1	0.0131	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Mercury	0.023	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Mercury	0.01	J	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Mercury	0.0092	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Mercury	0.033	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Mercury	0.015	J	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Mercury	0.0072	U	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Mercury	0.01	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Mercury	0.0072	U	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Mercury	0.0072	U	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Mercury	0.027	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Mercury	0.0072	U	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Mercury	0.0098	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Mercury	0.015	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Mercury	0.0072	U	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Mercury	0.012	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Mercury	0.014	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Mercury	0.0086	J	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Mercury	0.0072	U	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Mercury	0.0072	U	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Mercury	0.0072	U	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Mercury	0.0072	U	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Mercury	0.0072	U	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Mercury	0.0072	U	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Mercury	0.0072	U	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Mercury	0.0072	U	mg/kg		0.034	0.0072	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Mercury	0.0072	U	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Mercury	0.0072	U	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Mercury	0.023	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Mercury	0.028	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Mercury	0.11		mg/kg		0.036	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Mercury	0.032	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Mercury	0.021	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Mercury	0.028	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Mercury	0.029	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Mercury	0.034		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Mercury	0.03	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Mercury	0.028	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Mercury	0.033	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Mercury	0.034	J	mg/kg		0.036	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Mercury	0.021	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Mercury	0.0072	U	mg/kg		0.042	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Mercury	0.011	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Mercury	0.025	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Mercury	0.016	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Mercury	0.0084	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Mercury	0.01	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Mercury	0.021	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Mercury	0.016	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Mercury	0.01	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Mercury	0.011	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Mercury	0.019	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Mercury	0.02	J	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Mercury	0.018	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Mercury	0.0093	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Mercury	0.023	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Mercury	0.014	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Mercury	0.012	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Mercury	0.012	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Mercury	0.011	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Mercury	0.0091	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Mercury	0.022	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Mercury	0.057		mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Mercury	0.02	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Mercury	0.0072	U	mg/kg		0.034	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Mercury	0.015	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Mercury	0.014	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Mercury	0.013	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Mercury	0.0072	U	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Mercury	0.022	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Mercury	0.014	J	mg/kg		0.034	0.0072	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Mercury	0.012	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Mercury	0.038		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Mercury	0.021	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Mercury	0.019	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Mercury	0.0098	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Mercury	0.0072	U	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Mercury	0.07		mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Mercury	0.049		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Mercury	0.027	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Mercury	0.013	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Mercury	0.082		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Mercury	0.019	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Mercury	0.017	J	mg/kg		0.034	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Mercury	0.034		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Mercury	0.027	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Mercury	0.011	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Mercury	0.0072	U	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Mercury	0.0072	U	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Mercury	0.0072	U	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Mercury	0.017	J	mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Mercury	0.017	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Mercury	0.014	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Mercury	0.034		mg/kg		0.034	0.0072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Mercury	0.012	J	mg/kg		0.035	0.0072	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Mercury	0.011	J	mg/kg		0.035	0.0072	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Molybdenum	0.9	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Molybdenum	0.4	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Molybdenum	1.9		mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Molybdenum	0.75	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Molybdenum	0.64	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Molybdenum	0.33	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Molybdenum	0.72	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Molybdenum	0.35	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Molybdenum	0.43	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Molybdenum	0.47	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Molybdenum	0.53	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Molybdenum	0.51	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Molybdenum	0.61	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Molybdenum	2		mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Molybdenum	0.6	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Molybdenum	0.59	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Molybdenum	0.51	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Molybdenum	0.61	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Molybdenum	0.77	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Molybdenum	0.76	J	mg/kg		1	0.241	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Molybdenum	0.55	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Molybdenum	0.72	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Molybdenum	0.62	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Molybdenum	0.78	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Molybdenum	0.7	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Molybdenum	0.58	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Molybdenum	0.51	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Molybdenum	0.32	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Molybdenum	0.38	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Molybdenum	0.46	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Molybdenum	0.32	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Molybdenum	0.3	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Molybdenum	0.6	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Molybdenum	0.36	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Molybdenum	0.36	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Molybdenum	0.33	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Molybdenum	0.41	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Molybdenum	0.39	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Molybdenum	0.51	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Molybdenum	0.42	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Molybdenum	0.35	J	mg/kg		1.3	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Molybdenum	0.42	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Molybdenum	0.36	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Molybdenum	0.42	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Molybdenum	0.37	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Molybdenum	0.47	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Molybdenum	0.36	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Molybdenum	0.43	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Molybdenum	0.32	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Molybdenum	0.58	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Molybdenum	0.43	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Molybdenum	0.73	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Molybdenum	0.63	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Molybdenum	0.64	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Molybdenum	0.49	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Molybdenum	0.38	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Molybdenum	0.57	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Molybdenum	0.52	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Molybdenum	0.38	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Molybdenum	0.84	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Molybdenum	0.37	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Molybdenum	0.68	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Molybdenum	0.53	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Molybdenum	0.51	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Molybdenum	0.39	J	mg/kg		1	0.241	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Molybdenum	0.79	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Molybdenum	0.42	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Molybdenum	0.47	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Molybdenum	0.48	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Molybdenum	0.58	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Molybdenum	0.56	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Molybdenum	0.38	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Molybdenum	1	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Molybdenum	0.54	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Molybdenum	0.43	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Molybdenum	0.48	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Molybdenum	0.52	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Molybdenum	0.45	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Molybdenum	0.45	J	mg/kg		1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Molybdenum	0.42	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Molybdenum	0.34	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Molybdenum	0.35	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Molybdenum	0.45	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Molybdenum	0.51	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Molybdenum	0.55	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Molybdenum	0.66	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Molybdenum	0.77	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Molybdenum	0.41	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Molybdenum	0.54	J	mg/kg		1.1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Molybdenum	0.62	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Molybdenum	0.49	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Molybdenum	0.74	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Molybdenum	0.46	J	mg/kg		1	0.241	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Molybdenum	0.44	J	mg/kg		1.1	0.241	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Molybdenum	0.45	J	mg/kg		1	0.241	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Nickel	20.9		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Nickel	9.6		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Nickel	11.3		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Nickel	17.5		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Nickel	11.4		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Nickel	7.9	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Nickel	15	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Nickel	9.2	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Nickel	8	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Nickel	11.8		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Nickel	10.6		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Nickel	11.7		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Nickel	16.3		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Nickel	14.1		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Nickel	11.1		mg/kg		1	0.1295	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Nickel	16		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Nickel	10	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Nickel	12.8	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Nickel	17.1	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Nickel	13.2	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Nickel	9.7	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Nickel	15	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Nickel	10.6	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Nickel	10.1	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Nickel	17.6	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Nickel	11.6	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Nickel	11.5	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Nickel	16.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Nickel	18.7	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Nickel	18	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Nickel	16.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Nickel	15.5	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Nickel	20.3	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Nickel	30	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Nickel	15.3	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Nickel	19	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Nickel	17.2	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Nickel	18.9	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Nickel	22.2	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Nickel	17.5	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Nickel	16.4	J	mg/kg		1.3	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Nickel	17.6	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Nickel	17.4	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Nickel	18.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Nickel	16.4		mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Nickel	22.1		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Nickel	19.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Nickel	17.4		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Nickel	14.8		mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Nickel	20.6		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Nickel	15.4	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Nickel	15.6	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Nickel	15.2	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Nickel	19.4	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Nickel	17.2	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Nickel	15.2	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Nickel	16.6	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Nickel	16.3	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Nickel	17.9	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Nickel	20.2		mg/kg		1	0.1295	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Nickel	11		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Nickel	13		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Nickel	16.4	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Nickel	13		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Nickel	15.5		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Nickel	17.1		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Nickel	12.1		mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Nickel	14.1		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Nickel	20.6	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Nickel	19.5	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Nickel	20.2	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Nickel	15.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Nickel	19.7	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Nickel	16	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Nickel	18.1	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Nickel	19.5	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Nickel	19.3	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Nickel	25.9	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Nickel	17.5	J	mg/kg		1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Nickel	19.1	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Nickel	27.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Nickel	18.1	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Nickel	14.7	J	mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Nickel	18.9	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Nickel	22.7	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Nickel	22.1	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Nickel	17.8	J	mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Nickel	13.7	J	mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Nickel	16.6	J	mg/kg		1.1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Nickel	15.6		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Nickel	15.5		mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Nickel	13.6		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Nickel	13.8		mg/kg		1	0.1295	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Nickel	15.3		mg/kg		1.1	0.1295	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Nickel	13.8		mg/kg		1	0.1295	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Niobium	2	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Niobium	1.2	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Niobium	1.3	UJ-	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Niobium	1.3	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Niobium	1.5	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Niobium	1.015	UJ-	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Niobium	1.7	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Niobium	1.015	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Niobium	1.4	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Niobium	1.4	UJ-	mg/kg		10.2	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Niobium	1.4	UJ-	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Niobium	2.8	UJ-	mg/kg		10.2	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Niobium	2	UJ-	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Niobium	1.8	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Niobium	2	U	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Niobium	1.6	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Niobium	1.7	UJ-	mg/kg		10.2	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Niobium	1.3	UJ-	mg/kg		10.2	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Niobium	1.3	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Niobium	1.015	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Niobium	2.1	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Niobium	1.6	UJ-	mg/kg		10.5	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Niobium	2.3	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Niobium	1.6	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Niobium	1.015	UJ-	mg/kg		10.7	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Niobium	1.015	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Niobium	2.3	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Niobium	1.6	UJ-	mg/kg		10.5	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Niobium	1.5	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Niobium	2.8	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Niobium	1.1	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Niobium	1.1	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Niobium	1.3	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Niobium	1.015	UJ-	mg/kg		10.8	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Niobium	1.6	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Niobium	1.015	UJ-	mg/kg		12.6	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Niobium	1.015	UJ-	mg/kg		10.6	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Niobium	2.3	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Niobium	1.5	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Niobium	2.5	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Niobium	1.7	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Niobium	1.7	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Niobium	2.1	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Niobium	1.5	UJ-	mg/kg		10.6	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Niobium	2.5	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Niobium	2.1	UJ-	mg/kg		10.2	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Niobium	1.5	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Niobium	1.3	UJ-	mg/kg		10.4	1.015	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Niobium	1.8	UJ-	mg/kg		10.2	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Niobium	1.3	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Niobium	2	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Niobium	1.2	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Niobium	1.015	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Niobium	2.1	UJ-	mg/kg		10.3	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Niobium	1.7	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Niobium	1.3	UJ-	mg/kg		10.6	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Niobium	1.2	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Niobium	1.015	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Niobium	1.8	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Niobium	1.2	UJ-	mg/kg		10.4	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Niobium	1.2	UJ-	mg/kg		10.5	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Niobium	1.4	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Niobium	1.015	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Niobium	1.015	UJ-	mg/kg		10.3	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Niobium	2.5	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Niobium	1.4	UJ-	mg/kg		10.6	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Niobium	1.1	UJ-	mg/kg		10.5	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Niobium	1.3	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Niobium	1.015	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Niobium	1.015	UJ-	mg/kg		10.6	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Niobium	1.3	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Niobium	1.8	UJ-	mg/kg		10.5	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Niobium	1.3	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Niobium	1.015	UJ-	mg/kg		10.1	1.015	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Niobium	1.4	UJ-	mg/kg		10.6	1.015	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Niobium	1.015	UJ-	mg/kg		10.4	1.015	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Nitrate (as NO3)	0.41	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Nitrate (as NO3)	6.7	J	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Nitrate (as NO3)	3.8	J	mg/kg		0.2	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Nitrate (as NO3)	2.8	J	mg/kg		0.21	0.1	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Nitrate (as NO3)	0.58	J	mg/kg		0.2	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Nitrate (as NO3)	0.63	J	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Nitrate (as NO3)	0.87	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Nitrate (as NO3)	0.31	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Nitrate (as NO3)	102	J	mg/kg		10.2	5.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Nitrate (as NO3)	42.1	J	mg/kg		2	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Nitrate (as NO3)	0.19	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Nitrate (as NO3)	75.8	J	mg/kg		2	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Nitrate (as NO3)	34.5	J	mg/kg		2	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Nitrate (as NO3)	0.37	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Nitrate (as NO3)	14.6	J	mg/kg		2.1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Nitrate (as NO3)	2.1	J	mg/kg		0.2	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Nitrate (as NO3)	0.25	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Nitrate (as NO3)	26.1	J	mg/kg		2	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Nitrate (as NO3)	14.9	J	mg/kg		10.2	5.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Nitrate (as NO3)	0.66	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Nitrate (as NO3)	2.9	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Nitrate (as NO3)	86.2	J	mg/kg		10.4	5.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Nitrate (as NO3)	28.1	J	mg/kg		10.5	5.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Nitrate (as NO3)	0.22	J	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Nitrate (as NO3)	3.4	J	mg/kg		0.21	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Nitrate (as NO3)	0.35	J	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Nitrate (as NO3)	0.62	J	mg/kg		0.21	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Nitrate (as NO3)	0.71	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Nitrate (as NO3)	1	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Nitrate (as NO3)	3.3	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Nitrate (as NO3)	0.93	J	mg/kg		0.22	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Nitrate (as NO3)	0.87	J	mg/kg		0.25	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Nitrate (as NO3)	0.9	J	mg/kg		0.21	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Nitrate (as NO3)	1.3	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Nitrate (as NO3)	0.51	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Nitrate (as NO3)	0.65	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Nitrate (as NO3)	1.5	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Nitrate (as NO3)	2.6	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Nitrate (as NO3)	0.25	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Nitrate (as NO3)	0.96	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Nitrate (as NO3)	1	J	mg/kg		0.21	0.1	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Nitrate (as NO3)	9		mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Nitrate (as NO3)	13.4		mg/kg		2	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Nitrate (as NO3)	2.3		mg/kg		2.1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Nitrate (as NO3)	0.1	U	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Nitrate (as NO3)	6.6		mg/kg		4.1	2.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Nitrate (as NO3)	0.85		mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Nitrate (as NO3)	0.14	B	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Nitrate (as NO3)	0.49		mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Nitrate (as NO3)	0.13	B	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Nitrate (as NO3)	53.4	J	mg/kg		2	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Nitrate (as NO3)	34	J	mg/kg		10.4	5.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Nitrate (as NO3)	6.2	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Nitrate (as NO3)	0.28		mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Nitrate (as NO3)	0.14	B	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Nitrate (as NO3)	0.99		mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Nitrate (as NO3)	0.47	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Nitrate (as NO3)	4.7	J	mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Nitrate (as NO3)	1.5	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Nitrate (as NO3)	1.5		mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Nitrate (as NO3)	0.21		mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Nitrate (as NO3)	6		mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Nitrate (as NO3)	0.28		mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Nitrate (as NO3)	2.3		mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Nitrate (as NO3)	2.9		mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Nitrate (as NO3)	0.26		mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Nitrate (as NO3)	0.69		mg/kg		0.21	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Nitrate (as NO3)	1.4		mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Nitrate (as NO3)	9.3	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Nitrate (as NO3)	58.6	J	mg/kg		2.1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Nitrate (as NO3)	20.8	J	mg/kg		2.1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Nitrate (as NO3)	54.9	J	mg/kg		2.1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Nitrate (as NO3)	10.4	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Nitrate (as NO3)	0.1	UJ	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Nitrate (as NO3)	1.8	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Nitrate (as NO3)	3.2	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Nitrate (as NO3)	0.18	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Nitrate (as NO3)	1.6	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Nitrate (as NO3)	0.67	J	mg/kg		0.21	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Nitrate (as NO3)	0.45	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Nitrate (as NO3)	0.69	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Nitrate (as NO3)	0.49	J	mg/kg		0.21	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Nitrate (as NO3)	0.57	J	mg/kg		0.2	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Nitrate (as NO3)	2.4	J	mg/kg		0.21	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Nitrate (as NO3)	0.64	J	mg/kg		0.21	0.1	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Nitrite	0.16	J	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Nitrite	0.061	UJ	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Nitrite	0.15	J	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Nitrite	0.21	J	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Nitrite	0.061	UJ	mg/kg		0.21	0.065	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Nitrite	0.061	UJ	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Nitrite	0.061	UJ	mg/kg		0.22	0.066	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Nitrite	0.061	UJ	mg/kg		0.25	0.077	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Nitrite	0.061	UJ	mg/kg		0.21	0.065	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Nitrite	0.061	U	mg/kg		2	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Nitrite	0.061	U	mg/kg		2.1	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Nitrite	0.061	U	mg/kg		4.1	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Nitrite	0.061	U	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Nitrite	0.061	U	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Nitrite	0.061	U	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Nitrite	0.061	U	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Nitrite	0.061	U	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Nitrite	0.061	U	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Nitrite	0.061	U	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Nitrite	0.075	B	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Nitrite	0.061	U	mg/kg		0.21	0.065	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Nitrite	0.061	U	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Nitrite	0.061	U	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Nitrite	0.061	U	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Nitrite	0.061	U	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Nitrite	0.15	J	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Nitrite	0.061	UJ	mg/kg		0.21	0.063	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Nitrite	0.061	UJ	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Nitrite	0.061	UJ	mg/kg		0.21	0.065	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Nitrite	0.061	UJ	mg/kg		0.2	0.062	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Nitrite	0.061	UJ	mg/kg		0.21	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Nitrite	0.061	UJ	mg/kg		0.2	0.061	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Nitrite	0.061	UJ	mg/kg		0.21	0.065	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Nitrite	0.061	UJ	mg/kg		0.21	0.063	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Palladium	0.31		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Palladium	0.42		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Palladium	0.8		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Palladium	0.23		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Palladium	0.55		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Palladium	0.7		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Palladium	0.32		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Palladium	0.51		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Palladium	0.84		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Palladium	0.23		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Palladium	0.37		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Palladium	0.4		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Palladium	0.41		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Palladium	0.43		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Palladium	0.52		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Palladium	0.37		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Palladium	0.35		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Palladium	0.53		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Palladium	0.3		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Palladium	0.58		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Palladium	0.51		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Palladium	0.29		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Palladium	0.46		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Palladium	0.99		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Palladium	0.27		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Palladium	0.45		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Palladium	1.2		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Palladium	0.57		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Palladium	0.81		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Palladium	0.55		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Palladium	0.73		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Palladium	0.46		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Palladium	0.71		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Palladium	1.5		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Palladium	0.37		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Palladium	0.42		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Palladium	0.59		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Palladium	0.27		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Palladium	0.3		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Palladium	0.26		mg/kg		0.1	0.0765	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Palladium	0.19		mg/kg		0.13	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Palladium	0.25		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Palladium	0.28		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Palladium	0.24		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Palladium	0.16		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Palladium	0.26		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Palladium	0.36		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Palladium	0.24		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Palladium	0.17		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Palladium	0.25		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Palladium	0.36		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Palladium	0.72		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Palladium	0.77		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Palladium	0.38		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Palladium	0.84		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Palladium	0.88		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Palladium	0.48		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Palladium	0.68		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Palladium	0.88		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Palladium	0.42		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Palladium	0.47		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Palladium	0.58		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Palladium	0.25		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Palladium	0.32		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Palladium	0.86		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Palladium	0.24		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Palladium	0.5		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Palladium	0.91		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Palladium	0.26		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Palladium	0.3		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Palladium	0.5		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Palladium	0.21		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Palladium	0.34		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Palladium	0.35		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Palladium	0.27		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Palladium	0.34		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Palladium	0.39		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Palladium	0.45		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Palladium	0.55		mg/kg		0.1	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Palladium	0.33		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Palladium	0.3		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Palladium	0.62		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Palladium	0.29		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Palladium	0.45		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Palladium	0.5		mg/kg		0.11	0.0765	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Palladium	0.49		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Palladium	0.34		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Palladium	0.52		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Palladium	1		mg/kg		0.11	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Palladium	0.29		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Palladium	0.4		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Palladium	0.84		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Palladium	0.27		mg/kg		0.1	0.0765	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Palladium	0.44		mg/kg		0.11	0.0765	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Palladium	0.75		mg/kg		0.1	0.0765	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Phosphorus (total)	1440		mg/kg		50.8	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Phosphorus (total)	938		mg/kg		51.6	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Phosphorus (total)	1120		mg/kg		51.1	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Phosphorus (total)	1250		mg/kg		50.3	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Phosphorus (total)	1020		mg/kg		51.4	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Phosphorus (total)	1030		mg/kg		51.1	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Phosphorus (total)	1280		mg/kg		50.7	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Phosphorus (total)	1330		mg/kg		51.6	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Phosphorus (total)	970		mg/kg		51.6	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Phosphorus (total)	1300		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Phosphorus (total)	1200		mg/kg		51.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Phosphorus (total)	1530		mg/kg		50.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Phosphorus (total)	1510		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Phosphorus (total)	1600		mg/kg		51.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Phosphorus (total)	1370		mg/kg		50.9	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Phosphorus (total)	1520		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Phosphorus (total)	1480		mg/kg		51.6	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Phosphorus (total)	1440		mg/kg		51	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Phosphorus (total)	1240		mg/kg		50.3	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Phosphorus (total)	1160		mg/kg		51.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Phosphorus (total)	1260		mg/kg		51.1	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Phosphorus (total)	1460		mg/kg		50.3	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Phosphorus (total)	1110		mg/kg		52.5	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Phosphorus (total)	1050		mg/kg		51.7	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Phosphorus (total)	1300		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Phosphorus (total)	1540		mg/kg		51.9	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Phosphorus (total)	862		mg/kg		52.3	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Phosphorus (total)	1810		mg/kg		50.8	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Phosphorus (total)	1900		mg/kg		52.2	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Phosphorus (total)	1800		mg/kg		53.3	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Phosphorus (total)	1990		mg/kg		50.8	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Phosphorus (total)	2010		mg/kg		52.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Phosphorus (total)	1960		mg/kg		52.5	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Phosphorus (total)	1890		mg/kg		50.8	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Phosphorus (total)	1730		mg/kg		50.4	1.913	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Phosphorus (total)	1870		mg/kg		52.6	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Phosphorus (total)	1800		mg/kg		52.2	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Phosphorus (total)	1620		mg/kg		50.8	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Phosphorus (total)	1810		mg/kg		54	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Phosphorus (total)	1580		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Phosphorus (total)	1820		mg/kg		63.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Phosphorus (total)	1690		mg/kg		52.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Phosphorus (total)	1590		mg/kg		51	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Phosphorus (total)	1590		mg/kg		50.7	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Phosphorus (total)	1730		mg/kg		52.5	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Phosphorus (total)	1520		mg/kg		51.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Phosphorus (total)	1630		mg/kg		50.7	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Phosphorus (total)	1710		mg/kg		50.5	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Phosphorus (total)	1670		mg/kg		53.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Phosphorus (total)	1650		mg/kg		51.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Phosphorus (total)	1410		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Phosphorus (total)	1590		mg/kg		51.2	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Phosphorus (total)	1440		mg/kg		51.3	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Phosphorus (total)	1460		mg/kg		50.5	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Phosphorus (total)	1550		mg/kg		51.8	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Phosphorus (total)	1450		mg/kg		51.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Phosphorus (total)	1550		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Phosphorus (total)	1490		mg/kg		52	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Phosphorus (total)	1640		mg/kg		51.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Phosphorus (total)	1340		mg/kg		50.7	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Phosphorus (total)	1020		mg/kg		51.9	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Phosphorus (total)	1150		mg/kg		52	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Phosphorus (total)	1340		mg/kg		50.5	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Phosphorus (total)	1500		mg/kg		51.4	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Phosphorus (total)	1370		mg/kg		52	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Phosphorus (total)	1280		mg/kg		50.5	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Phosphorus (total)	1300		mg/kg		51.9	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Phosphorus (total)	1320		mg/kg		51.7	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Phosphorus (total)	1830		mg/kg		50.4	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Phosphorus (total)	1820		mg/kg		51.7	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Phosphorus (total)	1640		mg/kg		51.6	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Phosphorus (total)	1720		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Phosphorus (total)	1780		mg/kg		53.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Phosphorus (total)	1880		mg/kg		52.2	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Phosphorus (total)	1830		mg/kg		50.6	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Phosphorus (total)	1810		mg/kg		52.2	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Phosphorus (total)	1660		mg/kg		51.6	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Phosphorus (total)	1760		mg/kg		50.3	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Phosphorus (total)	1230		mg/kg		52	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Phosphorus (total)	1420		mg/kg		52.2	1.913	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Phosphorus (total)	1220		mg/kg		50.3	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Phosphorus (total)	1060		mg/kg		52.3	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Phosphorus (total)	1240		mg/kg		51.4	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Phosphorus (total)	1540	J	mg/kg		50.7	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Phosphorus (total)	1460	J	mg/kg		53.1	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Phosphorus (total)	1880	J	mg/kg		52.5	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Phosphorus (total)	1530		mg/kg		50.4	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Phosphorus (total)	1200		mg/kg		52.7	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Phosphorus (total)	1070		mg/kg		52.8	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Phosphorus (total)	1610		mg/kg		50.5	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Phosphorus (total)	1170		mg/kg		52.6	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Phosphorus (total)	1030		mg/kg		52.1	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Phosphorus (total)	1470		mg/kg		50.4	1.913	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Phosphorus (total)	1190		mg/kg		52.9	1.913	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Phosphorus (total)	1090		mg/kg		51.9	1.913	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Platinum	0.0435	U	mg/kg		0.11	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Platinum	0.0435	U	mg/kg		0.11	0.0435	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Platinum	0.0435	U	mg/kg		0.11	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Platinum	0.0435	U	mg/kg		0.13	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Platinum	0.064	J	mg/kg		0.11	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Platinum	0.045	J	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Platinum	0.064	J	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Platinum	0.0435	U	mg/kg		0.1	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Platinum	0.082	J	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Platinum	0.099	J	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Platinum	0.0435	U	mg/kg		0.11	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Platinum	0.0435	U	mg/kg		0.11	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Platinum	0.0435	U	mg/kg		0.1	0.0435	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Platinum	0.0435	U	mg/kg		0.11	0.0435	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Platinum	0.0435	U	mg/kg		0.1	0.0435	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-210	1.04	U	pCi/g	0.99	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-210	0.7	U	pCi/g	1.4	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-210	1.6	U	pCi/g	1.4	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-210	1.2	U	pCi/g	1.3	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-210	0.5	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-210	0.9	U	pCi/g	1.4	2.5	2.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-210	1.6	U	pCi/g	1.4	2.7	2.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-210	0.7	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-210	1.9	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-210	0.3	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-210	1	U	pCi/g	1.1	1.7	1.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-210	1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-210	1.4	U	pCi/g	1.3	2.4	2.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-210	0.6	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-210	-0.05	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-210	0.5	U	pCi/g	1.3	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-210	0.009	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-210	1.5	U	pCi/g	1.3	2.6	2.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-210	0.5	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-210	1.6	U	pCi/g	1.3	2.6	2.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-210	0.5	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-210	-0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-210	0.3	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-210	2	U	pCi/g	1.4	2.8	2.8	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-210	0.1	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-210	1.1	U	pCi/g	1.3	2.3	2.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-210	0.8	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-210	-0.2	U	pCi/g	1	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-210	2.2		pCi/g	1.6	1.5	1.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-210	0.3	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-210	0.2	U	pCi/g	1.1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-210	0.81	U	pCi/g	0.91	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-210	0.2	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-210	0.06	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-210	-0.3	U	pCi/g	0.94	1.7	1.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-210	-0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-210	-0.3	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-210	0.8	U	pCi/g	1.4	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-210	1.7	U	pCi/g	1.1	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-210	1.7	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-210	0.09	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-210	0.4	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-210	0.4	U	pCi/g	1.1	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-210	0.36	U	pCi/g	0.98	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-210	0.3	U	pCi/g	1.4	2.5	2.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-210	0.7	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-210	0.7	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-210	-0.5	U	pCi/g	1.3	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-210	0.3	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-210	0.5	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-210	0.18	U	pCi/g	0.99	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-210	0.1	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-210	-0.1	U	pCi/g	1.2	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-210	0.2	U	pCi/g	1.1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-210	1.19	U	pCi/g	0.98	1.9	1.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-210	0.3	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-210	0.6	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-210	0.6	U	pCi/g	1.1	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-210	0.6	U	pCi/g	1.2	2.3	2.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-210	0.8	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-210	0.6	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-210	1.1	U	pCi/g	1.1	2	2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-210	1.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-210	0.2	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-210	0.8	U	pCi/g	1	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-210	0.4	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-210	0.2	U	pCi/g	1.1	1.9	1.9	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-210	0.4	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-210	0.63	U	pCi/g	0.97	1.8	1.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-210	0.8	U	pCi/g	1.3	2.5	2.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-210	0.7	U	pCi/g	1.2	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-210	-0.002	U	pCi/g	1.2	2.1	2.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-210	0.2	U	pCi/g	1	1.9	1.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-210	1.2	U	pCi/g	1.2	2.4	2.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-210	0.8	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-210	-0.3	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-210	0.91	U	pCi/g	0.95	1.8	1.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-210	0.6	U	pCi/g	1.1	2	2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-210	0.2	U	pCi/g	1.4	2.6	2.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-210	0.9	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-210	0.5	U	pCi/g	1.2	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-210	-0.1	U	pCi/g	1.2	2.1	2.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-210	1.3	U	pCi/g	0.98	1.9	1.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-210	1.1	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-210	0.33	U	pCi/g	0.97	1.8	1.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-210	0.7	U	pCi/g	1.2	2.2	2.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-210	0.6	U	pCi/g	1.3	2.3	2.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-210	-0.2	U	pCi/g	1.1	2	2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-210	0.7	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-210	0.6	U	pCi/g	1.2	2.2	2.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-210	0.5	U	pCi/g	1.2	2.2	2.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-210	1.7	U	pCi/g	1.1	2.1	2.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-212	0.39	U	pCi/g	0.41	0.55	0.55	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-212	0.56		pCi/g	0.37	0.51	0.51	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-212	0.47	U	pCi/g	0.37	0.55	0.55	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-212	0.67	U	pCi/g	0.35	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-212	0.53	U	pCi/g	0.35	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-212	0.78		pCi/g	0.36	0.52	0.52	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-212	0.52		pCi/g	0.41	0.49	0.49	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-212	1.02		pCi/g	0.45	0.51	0.51	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-212	0.78	U	pCi/g	0.38	0.79	0.79	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-212	1.16		pCi/g	0.43	0.52	0.52	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-212	1.09		pCi/g	0.41	0.45	0.45	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-212	0.87		pCi/g	0.4	0.48	0.48	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-212	0.76		pCi/g	0.48	0.5	0.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-212	0.63		pCi/g	0.5	0.63	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-212	0.98		pCi/g	0.46	0.52	0.52	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-212	1.04		pCi/g	0.43	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-212	0.68		pCi/g	0.47	0.5	0.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-212	0.93		pCi/g	0.36	0.39	0.39	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-212	0.86		pCi/g	0.48	0.53	0.53	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-212	1.17		pCi/g	0.49	0.53	0.53	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-212	1.08		pCi/g	0.43	0.47	0.47	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-212	1.06		pCi/g	0.42	0.53	0.53	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-212	0.9		pCi/g	0.38	0.79	0.79	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-212	0.48	U	pCi/g	0.28	0.58	0.58	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-212	0.39	U	pCi/g	0.35	0.71	0.71	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-212	0.51		pCi/g	0.3	0.48	0.48	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-212	1.02		pCi/g	0.37	0.47	0.47	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-212	0.29	U	pCi/g	0.35	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-212	0.46		pCi/g	0.36	0.41	0.41	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-212	0.48	U	pCi/g	0.33	0.66	0.66	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-212	0.75		pCi/g	0.33	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-212	0.85		pCi/g	0.37	0.45	0.45	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-212	0.41	U	pCi/g	0.3	0.6	0.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-212	0.44	U	pCi/g	0.3	0.63	0.63	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-212	0.19	U	pCi/g	0.3	0.57	0.57	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-212	0.34	U	pCi/g	0.34	0.35	0.35	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-212	0.63		pCi/g	0.38	0.45	0.45	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-212	0.57		pCi/g	0.37	0.4	0.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-212	0.78		pCi/g	0.49	0.53	0.53	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-212	0.99		pCi/g	0.39	0.42	0.42	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-212	0.54	U	pCi/g	0.35	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-212	0.93		pCi/g	0.41	0.48	0.48	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-212	0.69		pCi/g	0.34	0.51	0.51	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-212	0.68	U	pCi/g	0.36	0.75	0.75	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-212	0.88		pCi/g	0.36	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-212	0.71		pCi/g	0.47	0.47	0.47	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-212	0.93		pCi/g	0.4	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-212	0.53		pCi/g	0.37	0.5	0.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-212	0.59		pCi/g	0.45	0.57	0.57	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-212	0.91		pCi/g	0.46	0.61	0.61	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-212	0.45	U	pCi/g	0.4	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-212	0.89		pCi/g	0.37	0.42	0.42	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-212	0.61	U	pCi/g	0.33	0.7	0.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-212	0.63		pCi/g	0.45	0.55	0.55	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-212	0.55	U	pCi/g	0.34	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-212	0.39	U	pCi/g	0.3	0.61	0.61	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-212	0.7		pCi/g	0.29	0.44	0.44	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-212	0.35	U	pCi/g	0.36	0.52	0.52	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-212	0.7		pCi/g	0.37	0.51	0.51	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-212	0.73	U	pCi/g	0.36	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-212	0.78	U	pCi/g	0.37	0.79	0.79	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-212	0.72		pCi/g	0.32	0.65	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-212	0.55		pCi/g	0.44	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-212	0.52		pCi/g	0.29	0.46	0.46	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-212	0.37	U	pCi/g	0.38	0.42	0.42	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-212	0.58	U	pCi/g	0.34	0.67	0.67	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-212	0.58	U	pCi/g	0.34	0.69	0.69	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-212	0.82		pCi/g	0.3	0.65	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-212	0.67		pCi/g	0.47	0.51	0.51	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-212	0.64		pCi/g	0.39	0.43	0.43	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-212	0.91		pCi/g	0.53	0.51	0.51	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-212	0.38	U	pCi/g	0.29	0.44	0.44	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-212	0.58		pCi/g	0.46	0.54	0.54	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-212	0.68		pCi/g	0.38	0.53	0.53	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-212	0.59	U	pCi/g	0.34	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-212	0.67		pCi/g	0.43	0.49	0.49	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-212	0.63		pCi/g	0.36	0.45	0.45	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-212	0.5		pCi/g	0.35	0.5	0.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-212	0.34	U	pCi/g	0.3	0.61	0.61	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-212	0.54		pCi/g	0.38	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-212	0.53		pCi/g	0.36	0.39	0.39	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-212	0.85		pCi/g	0.38	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-212	0.85		pCi/g	0.43	0.56	0.56	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-212	0.58		pCi/g	0.39	0.51	0.51	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-212	0.75		pCi/g	0.34	0.73	0.73	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-212	0.89		pCi/g	0.44	0.42	0.42	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-212	0.36	U	pCi/g	0.42	0.48	0.48	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-212	0.5	U	pCi/g	0.3	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-212	0.42	U	pCi/g	0.35	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-212	0.54		pCi/g	0.39	0.5	0.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-212	0.56	U	pCi/g	0.35	0.69	0.69	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-212	0.39	U	pCi/g	0.38	0.44	0.44	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-212	0.58		pCi/g	0.42	0.47	0.47	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-212	0.4	U	pCi/g	0.34	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-212	0.53		pCi/g	0.35	0.45	0.45	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-214	0.9		pCi/g	0.26	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-214	1.22		pCi/g	0.24	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-214	1.03		pCi/g	0.26	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-214	1.21		pCi/g	0.26	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-214	1.14		pCi/g	0.26	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-214	1.32		pCi/g	0.29	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-214	1.2		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-214	1.2		pCi/g	0.27	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-214	1.49		pCi/g	0.3	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-214	1.16		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-214	1.08		pCi/g	0.24	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-214	0.95		pCi/g	0.22	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-214	1.12		pCi/g	0.29	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-214	1.21		pCi/g	0.26	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-214	0.82		pCi/g	0.21	0.18	0.18	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-214	1.01		pCi/g	0.25	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-214	1.08		pCi/g	0.25	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-214	0.97		pCi/g	0.25	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-214	1.26		pCi/g	0.31	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-214	1.06		pCi/g	0.24	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-214	1.04		pCi/g	0.26	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-214	0.93		pCi/g	0.24	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-214	0.97		pCi/g	0.28	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-214	1.09		pCi/g	0.24	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-214	0.93		pCi/g	0.27	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-214	0.9		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-214	1.24		pCi/g	0.28	0.2	0.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-214	0.89		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-214	0.7		pCi/g	0.2	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-214	0.79		pCi/g	0.21	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-214	0.6		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-214	0.64		pCi/g	0.19	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-214	0.67		pCi/g	0.19	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-214	0.69		pCi/g	0.21	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-214	0.74		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-214	0.66		pCi/g	0.18	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-214	0.64		pCi/g	0.2	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-214	0.91		pCi/g	0.22	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-214	0.92		pCi/g	0.25	0.22	0.22	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-214	0.79		pCi/g	0.23	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-214	0.84		pCi/g	0.2	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-214	1.09		pCi/g	0.23	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-214	0.92		pCi/g	0.22	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-214	0.81		pCi/g	0.25	0.2	0.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-214	0.88		pCi/g	0.21	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-214	1.07		pCi/g	0.27	0.22	0.22	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-214	0.73		pCi/g	0.21	0.2	0.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-214	0.85		pCi/g	0.24	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-214	0.95		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-214	1.16		pCi/g	0.27	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-214	1.21		pCi/g	0.27	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-214	0.73		pCi/g	0.23	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-214	1.18		pCi/g	0.24	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-214	0.87		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-214	0.96		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-214	0.9		pCi/g	0.24	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-214	0.63		pCi/g	0.2	0.2	0.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-214	0.74		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-214	1.19		pCi/g	0.25	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-214	1.16		pCi/g	0.25	0.17	0.17	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-214	1.25		pCi/g	0.29	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-214	1.19		pCi/g	0.27	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-214	0.92		pCi/g	0.23	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-214	1.02		pCi/g	0.25	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-214	0.96		pCi/g	0.22	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-214	0.92		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-214	1.48		pCi/g	0.28	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-214	1.14		pCi/g	0.25	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-214	0.96		pCi/g	0.24	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-214	0.94		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-214	0.81		pCi/g	0.22	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-214	0.8		pCi/g	0.2	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-214	1.14		pCi/g	0.27	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-214	0.98		pCi/g	0.26	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-214	0.9		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-214	0.8		pCi/g	0.22	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-214	0.89		pCi/g	0.25	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-214	0.87		pCi/g	0.25	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-214	0.91		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-214	1.02		pCi/g	0.24	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-214	0.95		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-214	1.05		pCi/g	0.27	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-214	1		pCi/g	0.26	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-214	0.73		pCi/g	0.21	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-214	0.82		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-214	0.83		pCi/g	0.2	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-214	0.94		pCi/g	0.25	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-214	0.88		pCi/g	0.2	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-214	1.46		pCi/g	0.27	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-214	0.92		pCi/g	0.23	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-214	1.05		pCi/g	0.24	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-214	1.44		pCi/g	0.28	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-214	0.83		pCi/g	0.23	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-214	1.06		pCi/g	0.25	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-214	1.62		pCi/g	0.3	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-215	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-215	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-215	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-215	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-215	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-215	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-215	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-215	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-215	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-215	0.34	U	pCi/g	0.44	0.81	0.81	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-215	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-215	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-215	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-215	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-215	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-215	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-215	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-215	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-215	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-215	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-215	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-215	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-215	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-215	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-215	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-215	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-215	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-215	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-215	-0.11	U	pCi/g	0.36	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-215	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-215	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-215	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-215	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-215	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-215	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-215	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-215	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-215	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-215	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-215	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-215	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-215	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-215	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-215	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-215	-0.13	U	pCi/g	0.41	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-215	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-215	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-215	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-215	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-215	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-215	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-215	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-215	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-215	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-215	-0.02	U	pCi/g	0.42	0.72	0.72	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-215	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-215	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-215	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-215	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-215	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-215	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-215	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-215	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-215	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-215	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-215	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-215	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-215	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-215	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-215	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-215	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-215	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-215	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-215	-0.27	U	pCi/g	0.45	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-215	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-215	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-215	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-215	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-215	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-215	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-215	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-215	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-215	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-215	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-215	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-215	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-215	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-215	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-215	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-215	-0.15	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-215	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-215	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-215	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-215	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-215	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-216	1.69		pCi/g	0.3	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-216	1.58		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-216	1.58		pCi/g	0.28	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-216	1.93		pCi/g	0.28	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-216	1.71		pCi/g	0.26	0.13	0.13	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-216	1.88		pCi/g	0.28	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-216	1.74		pCi/g	0.26	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-216	1.65		pCi/g	0.26	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-216	1.71		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-216	1.86		pCi/g	0.27	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-216	1.92		pCi/g	0.28	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-216	1.62		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-216	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-216	1.72		pCi/g	0.31	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-216	1.72		pCi/g	0.27	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-216	1.77		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-216	1.72		pCi/g	0.32	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-216	1.78		pCi/g	0.26	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-216	1.63		pCi/g	0.28	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-216	1.6		pCi/g	0.28	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-216	1.73		pCi/g	0.29	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-216	1.73		pCi/g	0.25	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-216	1.76		pCi/g	0.27	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-216	1.43		pCi/g	0.25	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-216	1.93		pCi/g	0.33	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-216	1.61		pCi/g	0.24	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-216	1.64		pCi/g	0.25	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-216	1.08		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-216	1.25		pCi/g	0.19	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-216	1.22		pCi/g	0.2	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-216	1.34		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-216	1.2		pCi/g	0.23	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-216	1.29		pCi/g	0.22	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-216	1.08		pCi/g	0.23	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-216	1.2		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-216	1.37		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-216	1.33		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-216	1.9		pCi/g	0.27	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-216	1.93		pCi/g	0.29	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-216	1.37		pCi/g	0.24	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-216	1.64		pCi/g	0.28	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-216	1.82		pCi/g	0.28	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-216	1.98		pCi/g	0.29	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-216	1.61		pCi/g	0.28	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-216	1.77		pCi/g	0.26	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-216	2.11		pCi/g	0.31	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-216	1.8		pCi/g	0.28	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-216	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-216	1.73		pCi/g	0.29	0.23	0.23	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-216	1.98		pCi/g	0.32	0.25	0.25	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-216	1.62		pCi/g	0.25	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-216	1.24		pCi/g	0.23	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-216	1.25		pCi/g	0.24	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-216	1.46		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-216	1.29		pCi/g	0.24	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-216	1.4		pCi/g	0.22	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-216	1.42		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-216	1.08		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-216	1.2		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-216	1.74		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-216	1.22		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-216	1.21		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-216	1.54		pCi/g	0.23	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-216	1.52		pCi/g	0.25	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-216	1.36		pCi/g	0.2	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-216	1.74		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-216	1.3		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-216	1.4		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-216	1.69		pCi/g	0.3	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-216	1.45		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-216	1.97		pCi/g	0.29	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-216	1.38		pCi/g	0.23	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-216	1.53		pCi/g	0.27	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-216	1.89		pCi/g	0.27	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-216	1.76		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-216	1.54		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-216	1.69		pCi/g	0.3	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-216	1.27		pCi/g	0.2	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-216	1.41		pCi/g	0.25	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-216	1.62		pCi/g	0.28	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-216	1.13		pCi/g	0.22	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-216	1.72		pCi/g	0.3	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-216	1.64		pCi/g	0.28	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-216	1.3		pCi/g	0.23	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-216	1.43		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-216	1.58		pCi/g	0.24	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-216	1.56		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-216	1.26		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-216	1.36		pCi/g	0.24	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-216	1.49		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-216	1.75		pCi/g	0.26	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-216	1.45		pCi/g	0.22	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-216	1.44		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-216	1.65		pCi/g	0.25	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-216	1.51		pCi/g	0.23	0.12	0.12	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Polonium-218	1.58	J	pCi/g	0.21		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Polonium-218	1.32		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Polonium-218	1.5		pCi/g	0.18		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Polonium-218	0.968	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Polonium-218	1.15	J	pCi/g	0.15		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Polonium-218	2.1	J	pCi/g	0.26		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Polonium-218	0.855	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Polonium-218	1.54		pCi/g	0.2		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Polonium-218	2.36		pCi/g	0.3		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Polonium-218	1.2		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Polonium-218	1.15		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Polonium-218	1.07	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Polonium-218	0.945	J	pCi/g	0.13		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Polonium-218	0.965	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Polonium-218	1.03	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Polonium-218	1.06	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Polonium-218	1.37		pCi/g	0.18		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Polonium-218	1.27		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Polonium-218	1.18		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Polonium-218	0.952	J	pCi/g	0.12		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Polonium-218	1.22	J	pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Polonium-218	1.57		pCi/g	0.18		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Polonium-218	1.02		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Polonium-218	1.23		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Polonium-218	1.26		pCi/g	0.17		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Polonium-218	1.09		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Polonium-218	1.32		pCi/g	0.17		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Polonium-218	1.03	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Polonium-218	0.577	J	pCi/g	0.1		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Polonium-218	0.507	J	pCi/g	0.095		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Polonium-218	0.893	J	pCi/g	0.13		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Polonium-218	1.04	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Polonium-218	0.635	J	pCi/g	0.1		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Polonium-218	0.494	J	pCi/g	0.097		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Polonium-218	0.595	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Polonium-218	0.817	J	pCi/g	0.11		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Polonium-218	0.925	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Polonium-218	0.714	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Polonium-218	1.15		pCi/g	0.15		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Polonium-218	1.36		pCi/g	0.19		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Polonium-218	1.12		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Polonium-218	1.28		pCi/g	0.17		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Polonium-218	0.879	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Polonium-218	1.12		pCi/g	0.16		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Polonium-218	1.22		pCi/g	0.18		1	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Polonium-218	0.978	U	pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Polonium-218	1.05		pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Polonium-218	0.977	U	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Polonium-218	1.07		pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Polonium-218	0.939	U	pCi/g	0.13		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Polonium-218	1.06	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Polonium-218	1.18	J	pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Polonium-218	1.53	J	pCi/g	0.19		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Polonium-218	1.02		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Polonium-218	1.09	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Polonium-218	0.984	J	pCi/g	0.12		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Polonium-218	0.693	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Polonium-218	0.807	J	pCi/g	0.11		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Polonium-218	1.34		pCi/g	0.16		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Polonium-218	1.27		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Polonium-218	1.38		pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Polonium-218	1.79		pCi/g	0.2		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Polonium-218	0.968	J	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Polonium-218	0.773	J	pCi/g	0.12		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Polonium-218	1.7		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Polonium-218	1.22	J	pCi/g	0.17		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Polonium-218	1.82	J	pCi/g	0.22		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Polonium-218	1.91	J	pCi/g	0.23		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Polonium-218	0.89	J	pCi/g	0.11		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Polonium-218	1.2		pCi/g	0.15		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Polonium-218	0.833	J	pCi/g	0.11		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Polonium-218	0.96	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Polonium-218	1.46		pCi/g	0.18		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Polonium-218	1.11		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Polonium-218	0.987	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Polonium-218	1.07		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Polonium-218	1.13		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Polonium-218	0.792	J	pCi/g	0.11		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Polonium-218	0.865	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Polonium-218	1.13		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Polonium-218	0.877	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Polonium-218	0.784	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Polonium-218	1.54		pCi/g	0.19		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Polonium-218	1.14	J	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Polonium-218	0.97	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Polonium-218	0.938	J	pCi/g	0.12		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Polonium-218	1.16	J	pCi/g	0.16		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Polonium-218	1.24		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Polonium-218	1.65		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Polonium-218	1.13		pCi/g	0.14		1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Polonium-218	1.13		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Polonium-218	1.96	J	pCi/g	0.21		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Polonium-218	0.999	U	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Polonium-218	1.06		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Polonium-218	1.87		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Potassium	3590		mg/kg		50.8	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Potassium	2020		mg/kg		51.6	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Potassium	2250		mg/kg		51.1	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Potassium	3250		mg/kg		50.3	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Potassium	2370		mg/kg		51.4	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Potassium	1160	J	mg/kg		51.1	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Potassium	3150	J	mg/kg		50.7	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Potassium	1720	J	mg/kg		51.6	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Potassium	1310	J	mg/kg		51.6	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Potassium	2230		mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Potassium	2370		mg/kg		51.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Potassium	1890		mg/kg		50.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Potassium	3510		mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Potassium	2660		mg/kg		51.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Potassium	2010		mg/kg		50.9	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Potassium	3410		mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Potassium	2050		mg/kg		51.6	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Potassium	2270		mg/kg		51	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Potassium	3140		mg/kg		50.3	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Potassium	3260		mg/kg		51.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Potassium	1480		mg/kg		51.1	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Potassium	2970		mg/kg		50.3	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Potassium	2390		mg/kg		52.5	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Potassium	1780		mg/kg		51.7	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Potassium	3890		mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Potassium	2520		mg/kg		51.9	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Potassium	1810		mg/kg		52.3	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Potassium	1500	J	mg/kg		50.8	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Potassium	1490	J	mg/kg		52.2	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Potassium	1180	J	mg/kg		53.3	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Potassium	1540	J	mg/kg		50.8	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Potassium	1060	J	mg/kg		52.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Potassium	1360	J	mg/kg		52.5	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Potassium	1820	J	mg/kg		50.8	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Potassium	1720		mg/kg		50.4	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Potassium	1210	J	mg/kg		52.6	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Potassium	1250	J	mg/kg		52.2	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Potassium	1770	J	mg/kg		50.8	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Potassium	1750	J	mg/kg		54	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Potassium	1940	J	mg/kg		50.6	2.079	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Potassium	872	J	mg/kg		63.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Potassium	918	J	mg/kg		52.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Potassium	1530	J	mg/kg		51	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Potassium	1870	J	mg/kg		50.7	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Potassium	989		mg/kg		52.5	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Potassium	1190		mg/kg		51.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Potassium	1830	J	mg/kg		50.7	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Potassium	1580		mg/kg		50.5	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Potassium	877		mg/kg		53.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Potassium	1160		mg/kg		51.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Potassium	2350	J	mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Potassium	1350	J	mg/kg		51.2	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Potassium	879	J	mg/kg		51.3	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Potassium	2740	J	mg/kg		50.5	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Potassium	1310	J	mg/kg		51.8	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Potassium	898	J	mg/kg		51.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Potassium	2400	J	mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Potassium	1160	J	mg/kg		52	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Potassium	792	J	mg/kg		51.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Potassium	3650		mg/kg		50.7	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Potassium	1120		mg/kg		51.9	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Potassium	625		mg/kg		52	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Potassium	2760	J	mg/kg		50.5	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Potassium	1390		mg/kg		51.4	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Potassium	769		mg/kg		52	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Potassium	2720		mg/kg		50.5	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Potassium	1080		mg/kg		51.9	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Potassium	649		mg/kg		51.7	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Potassium	1890	J	mg/kg		50.4	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Potassium	1240	J	mg/kg		51.7	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Potassium	1350	J	mg/kg		51.6	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Potassium	1240	J	mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Potassium	1350	J	mg/kg		53.1	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Potassium	1140	J	mg/kg		52.2	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Potassium	1580	J	mg/kg		50.6	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Potassium	1480	J	mg/kg		52.2	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Potassium	1250	J	mg/kg		51.6	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Potassium	1580	J	mg/kg		50.3	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Potassium	2110	J	mg/kg		52	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Potassium	1380	J	mg/kg		52.2	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Potassium	1420	J	mg/kg		50.3	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Potassium	2340	J	mg/kg		52.3	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Potassium	1410	J	mg/kg		51.4	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Potassium	1800	J	mg/kg		50.7	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Potassium	2080	J	mg/kg		53.1	2.079	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Potassium	1300	J	mg/kg		52.5	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Potassium	1830	J	mg/kg		50.4	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Potassium	982	J	mg/kg		52.7	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Potassium	1170	J	mg/kg		52.8	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Potassium	1710		mg/kg		50.5	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Potassium	1050		mg/kg		52.6	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Potassium	866		mg/kg		52.1	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Potassium	1620		mg/kg		50.4	2.079	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Potassium	1030		mg/kg		52.9	2.079	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Potassium	966		mg/kg		51.9	2.079	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Potassium-40	24.5		pCi/g	3.7	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Potassium-40	25.4		pCi/g	3.6	5.5	5.5	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Potassium-40	24.7		pCi/g	3.7	0.5	0.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Potassium-40	23.3		pCi/g	3.8	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Potassium-40	30.5		pCi/g	4.3	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Potassium-40	25.8		pCi/g	3.8	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Potassium-40	20.9		pCi/g	3.6	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Potassium-40	27.9		pCi/g	4.1	0.6	0.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Potassium-40	23.4		pCi/g	3.8	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Potassium-40	25.9		pCi/g	3.8	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Potassium-40	27		pCi/g	4	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Potassium-40	24.5		pCi/g	3.4	5.2	5.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Potassium-40	24.2		pCi/g	3.9	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Potassium-40	26.2		pCi/g	3.9	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Potassium-40	25.6		pCi/g	3.7	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Potassium-40	24.5		pCi/g	4	1.3	1.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Potassium-40	28.5		pCi/g	4.3	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Potassium-40	27		pCi/g	3.8	5.7	5.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Potassium-40	25		pCi/g	3.8	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Potassium-40	30.4		pCi/g	4.4	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Potassium-40	26		pCi/g	3.9	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Potassium-40	24.4		pCi/g	3.6	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Potassium-40	26.5		pCi/g	3.9	0.6	0.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Potassium-40	21		pCi/g	3.1	5	5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Potassium-40	23.7		pCi/g	3.9	1.3	1.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Potassium-40	26		pCi/g	3.8	0.6	0.6	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Potassium-40	22.6		pCi/g	3.6	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Potassium-40	22		pCi/g	3.4	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Potassium-40	21.9		pCi/g	3.1	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Potassium-40	24.5		pCi/g	3.5	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Potassium-40	22.5		pCi/g	3.5	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Potassium-40	21.8		pCi/g	3.3	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Potassium-40	24.1		pCi/g	3.4	0.7	0.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Potassium-40	24		pCi/g	3.6	0.5	0.5	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Potassium-40	22.8		pCi/g	3.5	1.1	1.1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Potassium-40	24.1		pCi/g	3.5	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Potassium-40	22		pCi/g	3.3	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Potassium-40	25.6		pCi/g	3.7	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Potassium-40	22		pCi/g	3.6	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Potassium-40	24		pCi/g	3.4	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Potassium-40	25.1		pCi/g	3.7	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Potassium-40	25.1		pCi/g	3.6	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Potassium-40	27.5		pCi/g	4	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Potassium-40	23.5		pCi/g	3.6	1.4	1.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Potassium-40	23.4		pCi/g	3.4	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Potassium-40	27.2		pCi/g	4.2	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Potassium-40	25		pCi/g	3.9	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Potassium-40	25		pCi/g	3.7	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Potassium-40	23.9		pCi/g	3.6	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Potassium-40	28.1		pCi/g	4.1	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Potassium-40	22.4		pCi/g	3.6	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Potassium-40	23		pCi/g	3.3	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Potassium-40	23.2		pCi/g	3.5	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Potassium-40	24.6		pCi/g	3.7	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Potassium-40	20.6		pCi/g	3.3	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Potassium-40	22.4		pCi/g	3.4	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Potassium-40	21.4		pCi/g	3.1	5.1	5.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Potassium-40	22.2		pCi/g	3.5	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Potassium-40	23.4		pCi/g	3.5	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Potassium-40	24.1		pCi/g	3.5	5.6	5.6	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Potassium-40	17.8		pCi/g	3.1	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Potassium-40	24.3		pCi/g	3.5	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Potassium-40	27.9		pCi/g	4	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Potassium-40	28.2		pCi/g	4.1	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Potassium-40	21.8		pCi/g	3.4	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Potassium-40	27.7		pCi/g	4	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Potassium-40	24.1		pCi/g	3.7	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Potassium-40	21.8		pCi/g	3.2	5.1	5.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Potassium-40	27		pCi/g	4	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Potassium-40	24.5		pCi/g	3.5	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Potassium-40	23.1		pCi/g	3.5	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Potassium-40	22.2		pCi/g	3.3	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Potassium-40	24.2		pCi/g	3.6	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Potassium-40	26.6		pCi/g	3.8	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Potassium-40	24.4		pCi/g	3.7	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Potassium-40	25.3		pCi/g	3.6	5.4	5.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Potassium-40	25.8		pCi/g	3.8	0.7	0.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Potassium-40	20.3		pCi/g	3.5	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Potassium-40	22.2		pCi/g	3.4	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Potassium-40	25.8		pCi/g	3.6	0.6	0.6	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Potassium-40	21.5		pCi/g	3.5	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Potassium-40	22.8		pCi/g	3.8	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Potassium-40	27		pCi/g	4	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Potassium-40	23.7		pCi/g	3.6	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Potassium-40	22.9		pCi/g	3.6	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Potassium-40	21.9		pCi/g	3.2	0.7	0.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Potassium-40	22.6		pCi/g	3.5	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Potassium-40	20.9		pCi/g	3.3	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Potassium-40	18.4		pCi/g	3.1	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Potassium-40	23.7		pCi/g	3.6	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Potassium-40	23.2		pCi/g	3.6	0.9	0.9	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Potassium-40	19.6		pCi/g	3	0.7	0.7	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Potassium-40	23.9		pCi/g	3.5	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Potassium-40	22.6		pCi/g	3.4	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Potassium-40	21		pCi/g	3.2	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Protactinium-234	0.04	U	pCi/g	0.17	0.3	0.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Protactinium-234	-0.17	U	pCi/g	0.15	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Protactinium-234	-0.03	U	pCi/g	0.17	0.29	0.29	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Protactinium-234	-0.09	U	pCi/g	0.17	0.28	0.28	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Protactinium-234	0.006	U	pCi/g	0.18	0.31	0.31	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Protactinium-234	0.13	U	pCi/g	0.17	0.27	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Protactinium-234	-0.11	U	pCi/g	0.16	0.28	0.28	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Protactinium-234	-0.17	U	pCi/g	0.19	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Protactinium-234	-0.04	U	pCi/g	0.18	0.3	0.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Protactinium-234	-0.14	U	pCi/g	0.15	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Protactinium-234	0.004	U	pCi/g	0.18	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Protactinium-234	-0.001	U	pCi/g	0.16	0.24	0.24	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Protactinium-234	-0.13	U	pCi/g	0.16	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Protactinium-234	-0.12	U	pCi/g	0.19	0.31	0.31	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Protactinium-234	-0.19	U	pCi/g	0.14	0.23	0.23	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Protactinium-234	-0.05	U	pCi/g	0.15	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Protactinium-234	-0.15	U	pCi/g	0.18	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Protactinium-234	-0.03	U	pCi/g	0.16	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Protactinium-234	-0.11	U	pCi/g	0.18	0.3	0.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Protactinium-234	-0.02	U	pCi/g	0.19	0.34	0.34	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Protactinium-234	-0.03	U	pCi/g	0.18	0.31	0.31	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Protactinium-234	-0.21	U	pCi/g	0.15	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Protactinium-234	-0.09	U	pCi/g	0.17	0.29	0.29	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Protactinium-234	-0.01	U	pCi/g	0.15	0.26	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Protactinium-234	0.09	U	pCi/g	0.2	0.31	0.31	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Protactinium-234	-0.14	U	pCi/g	0.15	0.25	0.25	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Protactinium-234	-0.05	U	pCi/g	0.17	0.29	0.29	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Protactinium-234	-0.23	U	pCi/g	0.16	0.24	0.24	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Protactinium-234	-0.16	U	pCi/g	0.13	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Protactinium-234	-0.11	U	pCi/g	0.13	0.22	0.22	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Protactinium-234	-0.18	U	pCi/g	0.15	0.24	0.24	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Protactinium-234	0.007	U	pCi/g	0.15	0.26	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Protactinium-234	-0.09	U	pCi/g	0.13	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Protactinium-234	-0.03	U	pCi/g	0.17	0.29	0.29	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Protactinium-234	-0.01	U	pCi/g	0.15	0.27	0.27	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Protactinium-234	-0.07	U	pCi/g	0.13	0.23	0.23	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Protactinium-234	-0.04	U	pCi/g	0.15	0.26	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Protactinium-234	-0.18	U	pCi/g	0.14	0.23	0.23	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Protactinium-234	0.05	U	pCi/g	0.19	0.34	0.34	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Protactinium-234	0.12	U	pCi/g	0.17	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Protactinium-234	-0.005	U	pCi/g	0.16	0.29	0.29	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Protactinium-234	-0.04	U	pCi/g	0.17	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Protactinium-234	-0.21	U	pCi/g	0.16	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Protactinium-234	-0.27	U	pCi/g	0.17	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Protactinium-234	-0.02	U	pCi/g	0.16	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Protactinium-234	-0.25	U	pCi/g	0.18	0.28	0.28	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Protactinium-234	-0.07	U	pCi/g	0.17	0.29	0.29	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Protactinium-234	-0.07	U	pCi/g	0.15	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Protactinium-234	-0.31	U	pCi/g	0.18	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Protactinium-234	-0.08	U	pCi/g	0.18	0.31	0.31	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Protactinium-234	0.004	U	pCi/g	0.17	0.3	0.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Protactinium-234	-0.06	U	pCi/g	0.14	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Protactinium-234	-0.17	U	pCi/g	0.17	0.27	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Protactinium-234	-0.15	U	pCi/g	0.16	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Protactinium-234	-0.06	U	pCi/g	0.16	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Protactinium-234	0.03	U	pCi/g	0.16	0.27	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Protactinium-234	-0.07	U	pCi/g	0.14	0.24	0.24	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Protactinium-234	-0.1	U	pCi/g	0.16	0.26	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Protactinium-234	-0.08	U	pCi/g	0.15	0.26	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Protactinium-234	-0.14	U	pCi/g	0.15	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Protactinium-234	-0.08	U	pCi/g	0.16	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Protactinium-234	0.01	U	pCi/g	0.15	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Protactinium-234	-0.04	U	pCi/g	0.14	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Protactinium-234	0.06	U	pCi/g	0.17	0.26	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Protactinium-234	-0.07	U	pCi/g	0.14	0.24	0.24	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Protactinium-234	-0.16	U	pCi/g	0.16	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Protactinium-234	-0.11	U	pCi/g	0.16	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Protactinium-234	0.12	U	pCi/g	0.16	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Protactinium-234	-0.34	U	pCi/g	0.18	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Protactinium-234	0.06	U	pCi/g	0.16	0.25	0.25	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Protactinium-234	-0.15	U	pCi/g	0.18	0.29	0.29	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Protactinium-234	0.07	U	pCi/g	0.15	0.23	0.23	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Protactinium-234	-0.11	U	pCi/g	0.17	0.29	0.29	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Protactinium-234	-0.1	U	pCi/g	0.15	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Protactinium-234	0.03	U	pCi/g	0.19	0.28	0.28	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Protactinium-234	-0.16	U	pCi/g	0.14	0.23	0.23	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Protactinium-234	-0.24	U	pCi/g	0.17	0.26	0.26	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Protactinium-234	-0.14	U	pCi/g	0.14	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Protactinium-234	0.03	U	pCi/g	0.17	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Protactinium-234	-0.12	U	pCi/g	0.14	0.23	0.23	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Protactinium-234	-0.09	U	pCi/g	0.13	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Protactinium-234	-0.29	U	pCi/g	0.18	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Protactinium-234	0.13	U	pCi/g	0.18	0.28	0.28	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Protactinium-234	0.01	U	pCi/g	0.15	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Protactinium-234	-0.1	U	pCi/g	0.16	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Protactinium-234	-0.03	U	pCi/g	0.16	0.23	0.23	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Protactinium-234	-0.11	U	pCi/g	0.18	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Protactinium-234	-0.14	U	pCi/g	0.16	0.22	0.22	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Protactinium-234	0.01	U	pCi/g	0.17	0.29	0.29	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Protactinium-234	-0.08	U	pCi/g	0.16	0.26	0.26	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Protactinium-234	0.03	U	pCi/g	0.17	0.26	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Protactinium-234	-0.09	U	pCi/g	0.16	0.23	0.23	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Protactinium-234	-0.17	U	pCi/g	0.16	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Protactinium-234	-0.17	U	pCi/g	0.17	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Protactinium-234	-0.11	U	pCi/g	0.15	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Radium-226	1.58	J	pCi/g	0.21		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Radium-226	1.32		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Radium-226	1.5		pCi/g	0.18		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Radium-226	0.968	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Radium-226	1.15	J	pCi/g	0.15		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Radium-226	2.1	J	pCi/g	0.26		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Radium-226	0.855	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Radium-226	1.54		pCi/g	0.2		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Radium-226	2.36		pCi/g	0.3		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Radium-226	1.2		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Radium-226	1.15		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Radium-226	1.07	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Radium-226	0.945	J	pCi/g	0.13		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Radium-226	0.965	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Radium-226	1.03	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Radium-226	1.06	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Radium-226	1.37		pCi/g	0.18		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Radium-226	1.27		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Radium-226	1.18		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Radium-226	0.952	J	pCi/g	0.12		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Radium-226	1.22	J	pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Radium-226	1.57		pCi/g	0.18		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Radium-226	1.02		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Radium-226	1.23		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Radium-226	1.26		pCi/g	0.17		1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Radium-226	1.09		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Radium-226	1.32		pCi/g	0.17		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Radium-226	1.03	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Radium-226	0.577	J	pCi/g	0.1		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Radium-226	0.507	J	pCi/g	0.095		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Radium-226	0.893	J	pCi/g	0.13		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Radium-226	1.04	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Radium-226	0.635	J	pCi/g	0.1		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Radium-226	0.494	J	pCi/g	0.097		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Radium-226	0.595	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Radium-226	0.817	J	pCi/g	0.11		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Radium-226	0.925	J	pCi/g	0.14		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Radium-226	0.714	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Radium-226	1.15		pCi/g	0.15		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Radium-226	1.36		pCi/g	0.19		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Radium-226	1.12		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Radium-226	1.28		pCi/g	0.17		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Radium-226	0.879	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Radium-226	1.12		pCi/g	0.16		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Radium-226	1.22		pCi/g	0.18		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Radium-226	0.978	U	pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Radium-226	1.05		pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Radium-226	0.977	U	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Radium-226	1.07		pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Radium-226	0.939	U	pCi/g	0.13		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Radium-226	1.06	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Radium-226	1.18	J	pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Radium-226	1.53	J	pCi/g	0.19		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Radium-226	1.02		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Radium-226	1.09	J	pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Radium-226	0.984	J	pCi/g	0.12		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Radium-226	0.693	J	pCi/g	0.1		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Radium-226	0.807	J	pCi/g	0.11		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Radium-226	1.34		pCi/g	0.16		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Radium-226	1.27		pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Radium-226	1.38		pCi/g	0.16		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Radium-226	1.79		pCi/g	0.2		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Radium-226	0.968	J	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Radium-226	0.773	J	pCi/g	0.12		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Radium-226	1.7		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Radium-226	1.22	J	pCi/g	0.17		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Radium-226	1.82	J	pCi/g	0.22		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Radium-226	1.91	J	pCi/g	0.23		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Radium-226	0.89	J	pCi/g	0.11		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Radium-226	1.2		pCi/g	0.15		1	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Radium-226	0.833	J	pCi/g	0.11		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Radium-226	0.96	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Radium-226	1.46		pCi/g	0.18		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Radium-226	1.11		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Radium-226	0.987	J	pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Radium-226	1.07		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Radium-226	1.13		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Radium-226	0.792	J	pCi/g	0.11		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Radium-226	0.865	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Radium-226	1.13		pCi/g	0.15		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Radium-226	0.877	J	pCi/g	0.12		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Radium-226	0.784	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Radium-226	1.54		pCi/g	0.19		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Radium-226	1.14	J	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Radium-226	0.97	J	pCi/g	0.13		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Radium-226	0.938	J	pCi/g	0.12		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Radium-226	1.16	J	pCi/g	0.16		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Radium-226	1.24		pCi/g	0.17		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Radium-226	1.65		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Radium-226	1.13		pCi/g	0.14		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Radium-226	1.13		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Radium-226	1.96	J	pCi/g	0.21		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Radium-226	0.999	U	pCi/g	0.15		1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Radium-226	1.06		pCi/g	0.14		1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Radium-226	1.87		pCi/g	0.22		1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Radium-228	2.05		pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Radium-228	2.21		pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Radium-228	1.67	J	pCi/g	0.21		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Radium-228	1.28	J	pCi/g	0.19		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Radium-228	1.83	J	pCi/g	0.23		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Radium-228	2.17		pCi/g	0.26		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Radium-228	2.01		pCi/g	0.24		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Radium-228	2.04		pCi/g	0.25		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Radium-228	2.34		pCi/g	0.26		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Radium-228	2.36		pCi/g	0.27		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Radium-228	2.05		pCi/g	0.25		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Radium-228	1.91	J	pCi/g	0.22		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Radium-228	1.61	J	pCi/g	0.22		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Radium-228	2.92		pCi/g	0.3		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Radium-228	2.05		pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Radium-228	2.29		pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Radium-228	1.75	J	pCi/g	0.21		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Radium-228	2.35		pCi/g	0.25		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Radium-228	1.85	J	pCi/g	0.22		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Radium-228	1.46	U	pCi/g	0.2		2	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Radium-228	1.59	U	pCi/g	0.22		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Radium-228	2.02		pCi/g	0.23		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Radium-228	1.78	U	pCi/g	0.22		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Radium-228	1.35	U	pCi/g	0.21		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Radium-228	1.91	U	pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Radium-228	1.82	U	pCi/g	0.22		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Radium-228	1.47	U	pCi/g	0.2		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Radium-228	0.946	U	pCi/g	0.16		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Radium-228	2.37		pCi/g	0.25		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Radium-228	1.5	U	pCi/g	0.21		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Radium-228	2.65		pCi/g	0.31		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Radium-228	2.4		pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Radium-228	2.14		pCi/g	0.25		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Radium-228	1.86	U	pCi/g	0.21		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Radium-228	2.06		pCi/g	0.22		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Radium-228	2.31		pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Radium-228	2.51		pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Radium-228	1.92	J	pCi/g	0.27		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Radium-228	1.93	U	pCi/g	0.21		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Radium-228	2.41		pCi/g	0.24		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Radium-228	2.17		pCi/g	0.23		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Radium-228	2.03		pCi/g	0.26		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Radium-228	1.69	J	pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Radium-228	1.74	J	pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Radium-228	1.85	J	pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Radium-228	2.02		pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Radium-228	1.86	J	pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Radium-228	1.97	J	pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Radium-228	1.15	J	pCi/g	0.19		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Radium-228	2.02		pCi/g	0.26		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Radium-228	1.41	J	pCi/g	0.2		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Radium-228	1.3	J	pCi/g	0.21		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Radium-228	2.08		pCi/g	0.25		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Radium-228	1.67	J	pCi/g	0.2		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Radium-228	1.49	J	pCi/g	0.2		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Radium-228	1.42	J	pCi/g	0.2		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Radium-228	2.66		pCi/g	0.26		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Radium-228	2.21		pCi/g	0.24		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Radium-228	1.34	J	pCi/g	0.2		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Radium-228	2.1		pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Radium-228	2.05		pCi/g	0.24		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Radium-228	2.57		pCi/g	0.26		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Radium-228	1.95	J	pCi/g	0.24		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Radium-228	2.23		pCi/g	0.28		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Radium-228	2.04		pCi/g	0.25		2	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Radium-228	1.3	J	pCi/g	0.2		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Radium-228	2.11		pCi/g	0.23		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Radium-228	1.93	J	pCi/g	0.25		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Radium-228	1.7	J	pCi/g	0.26		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Radium-228	1.44	J	pCi/g	0.25		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Radium-228	1.73	J	pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Radium-228	1.11	U	pCi/g	0.17		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Radium-228	1.66	J	pCi/g	0.23		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Radium-228	2.18		pCi/g	0.27		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Radium-228	1.97	J	pCi/g	0.25		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Radium-228	1.37	J	pCi/g	0.21		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Radium-228	2.18		pCi/g	0.27		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Radium-228	2	U	pCi/g	0.26		2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Radium-228	1.55	U	pCi/g	0.24		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Radium-228	1.34	U	pCi/g	0.18		2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Radium-228	1.68	U	pCi/g	0.23		2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Radium-223	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Radium-223	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Radium-223	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Radium-223	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Radium-223	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Radium-223	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Radium-223	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Radium-223	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Radium-223	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Radium-223	0.34	U	pCi/g	0.44	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Radium-223	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Radium-223	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Radium-223	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Radium-223	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Radium-223	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Radium-223	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Radium-223	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Radium-223	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Radium-223	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Radium-223	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Radium-223	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Radium-223	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Radium-223	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Radium-223	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Radium-223	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Radium-223	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Radium-223	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Radium-223	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Radium-223	-0.11	U	pCi/g	0.36	0.62	0.62	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Radium-223	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Radium-223	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Radium-223	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Radium-223	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Radium-223	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Radium-223	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Radium-223	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Radium-223	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Radium-223	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Radium-223	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Radium-223	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Radium-223	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Radium-223	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Radium-223	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Radium-223	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Radium-223	-0.13	U	pCi/g	0.41	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Radium-223	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Radium-223	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Radium-223	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Radium-223	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Radium-223	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Radium-223	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Radium-223	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Radium-223	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Radium-223	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Radium-223	-0.02	U	pCi/g	0.42	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Radium-223	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Radium-223	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Radium-223	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Radium-223	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Radium-223	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Radium-223	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Radium-223	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Radium-223	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Radium-223	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Radium-223	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Radium-223	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Radium-223	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Radium-223	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Radium-223	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Radium-223	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Radium-223	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Radium-223	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Radium-223	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Radium-223	-0.27	U	pCi/g	0.45	0.75	0.75	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Radium-223	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Radium-223	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Radium-223	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Radium-223	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Radium-223	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Radium-223	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Radium-223	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Radium-223	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Radium-223	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Radium-223	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Radium-223	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Radium-223	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Radium-223	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Radium-223	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Radium-223	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Radium-223	-0.15	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Radium-223	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Radium-223	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Radium-223	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Radium-223	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Radium-223	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Radium-224	1.69		pCi/g	0.3	0.22	0.22	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Radium-224	1.58		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Radium-224	1.58		pCi/g	0.28	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Radium-224	1.93		pCi/g	0.28	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Radium-224	1.71		pCi/g	0.26	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Radium-224	1.88		pCi/g	0.28	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Radium-224	1.74		pCi/g	0.26	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Radium-224	1.65		pCi/g	0.26	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Radium-224	1.71		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Radium-224	1.86		pCi/g	0.27	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Radium-224	1.92		pCi/g	0.28	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Radium-224	1.62		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Radium-224	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Radium-224	1.72		pCi/g	0.31	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Radium-224	1.72		pCi/g	0.27	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Radium-224	1.77		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Radium-224	1.72		pCi/g	0.32	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Radium-224	1.78		pCi/g	0.26	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Radium-224	1.63		pCi/g	0.28	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Radium-224	1.6		pCi/g	0.28	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Radium-224	1.73		pCi/g	0.29	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Radium-224	1.73		pCi/g	0.25	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Radium-224	1.76		pCi/g	0.27	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Radium-224	1.43		pCi/g	0.25	0.17	0.17	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Radium-224	1.93		pCi/g	0.33	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Radium-224	1.61		pCi/g	0.24	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Radium-224	1.64		pCi/g	0.25	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Radium-224	1.08		pCi/g	0.21	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Radium-224	1.25		pCi/g	0.19	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Radium-224	1.22		pCi/g	0.2	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Radium-224	1.34		pCi/g	0.23	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Radium-224	1.2		pCi/g	0.23	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Radium-224	1.29		pCi/g	0.22	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Radium-224	1.08		pCi/g	0.23	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Radium-224	1.2		pCi/g	0.21	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Radium-224	1.37		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Radium-224	1.33		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Radium-224	1.9		pCi/g	0.27	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Radium-224	1.93		pCi/g	0.29	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Radium-224	1.37		pCi/g	0.24	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Radium-224	1.64		pCi/g	0.28	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Radium-224	1.82		pCi/g	0.28	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Radium-224	1.98		pCi/g	0.29	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Radium-224	1.61		pCi/g	0.28	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Radium-224	1.77		pCi/g	0.26	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Radium-224	2.11		pCi/g	0.31	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Radium-224	1.8		pCi/g	0.28	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Radium-224	1.76		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Radium-224	1.73		pCi/g	0.29	0.23	0.23	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Radium-224	1.98		pCi/g	0.32	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Radium-224	1.62		pCi/g	0.25	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Radium-224	1.24		pCi/g	0.23	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Radium-224	1.25		pCi/g	0.24	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Radium-224	1.46		pCi/g	0.25	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Radium-224	1.29		pCi/g	0.24	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Radium-224	1.4		pCi/g	0.22	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Radium-224	1.42		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Radium-224	1.08		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Radium-224	1.2		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Radium-224	1.74		pCi/g	0.26	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Radium-224	1.22		pCi/g	0.22	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Radium-224	1.21		pCi/g	0.19	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Radium-224	1.54		pCi/g	0.23	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Radium-224	1.52		pCi/g	0.25	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Radium-224	1.36		pCi/g	0.2	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Radium-224	1.74		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Radium-224	1.3		pCi/g	0.21	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Radium-224	1.4		pCi/g	0.22	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Radium-224	1.69		pCi/g	0.3	0.18	0.18	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Radium-224	1.45		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Radium-224	1.97		pCi/g	0.29	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Radium-224	1.38		pCi/g	0.23	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Radium-224	1.53		pCi/g	0.27	0.19	0.19	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Radium-224	1.89		pCi/g	0.27	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Radium-224	1.76		pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Radium-224	1.54		pCi/g	0.26	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Radium-224	1.69		pCi/g	0.3	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Radium-224	1.27		pCi/g	0.2	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Radium-224	1.41		pCi/g	0.25	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Radium-224	1.62		pCi/g	0.28	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Radium-224	1.13		pCi/g	0.22	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Radium-224	1.72		pCi/g	0.3	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Radium-224	1.64		pCi/g	0.28	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Radium-224	1.3		pCi/g	0.23	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Radium-224	1.43		pCi/g	0.25	0.2	0.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Radium-224	1.58		pCi/g	0.24	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Radium-224	1.56		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Radium-224	1.26		pCi/g	0.23	0.17	0.17	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Radium-224	1.36		pCi/g	0.24	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Radium-224	1.49		pCi/g	0.26	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Radium-224	1.75		pCi/g	0.26	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Radium-224	1.45		pCi/g	0.22	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Radium-224	1.44		pCi/g	0.24	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Radium-224	1.65		pCi/g	0.25	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Radium-224	1.51		pCi/g	0.23	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Selenium	0.29	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Selenium	0.27	J	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Selenium	0.1579	U	mg/kg		0.51	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Selenium	0.32	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Selenium	0.36	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Selenium	0.1579	U	mg/kg		0.51	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Selenium	0.3	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Selenium	0.36	J	mg/kg		0.51	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Selenium	0.29	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Selenium	0.34	J	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Selenium	0.31	J	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Selenium	0.3	J	mg/kg		0.5	0.1579	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Selenium	0.23	J	mg/kg		0.51	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Selenium	0.33	J	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Selenium	0.39	J	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Selenium	0.27	J	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Selenium	0.34	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Selenium	0.1579	U	mg/kg		0.53	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Selenium	0.26	J	mg/kg		0.53	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Selenium	0.39	J	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Selenium	0.1579	U	mg/kg		0.54	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Selenium	0.37	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Selenium	0.37	J	mg/kg		0.63	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Selenium	0.1579	U	mg/kg		0.53	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Selenium	0.54		mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Selenium	0.29	J	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Selenium	0.37	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Selenium	0.27	J	mg/kg		0.51	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Selenium	0.23	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Selenium	0.35	J	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Selenium	0.34	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Selenium	0.6		mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Selenium	0.1579	U	mg/kg		0.51	0.1579	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Selenium	0.31	J	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Selenium	0.31	J	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Selenium	0.32	J	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Selenium	0.27	J	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Selenium	0.1579	U	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Selenium	0.1579	U	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Selenium	0.1579	U	mg/kg		0.52	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Selenium	0.1579	U	mg/kg		0.51	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Selenium	0.1579	U	mg/kg		0.51	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Selenium	0.26	J	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Selenium	0.29	J	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Selenium	0.1579	U	mg/kg		0.53	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Selenium	0.1579	U	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Selenium	0.1579	U	mg/kg		0.5	0.1579	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Selenium	0.1579	U	mg/kg		0.53	0.1579	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Selenium	0.1579	U	mg/kg		0.52	0.1579	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Silicon	3720		mg/kg		50.8	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Silicon	640		mg/kg		51.6	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Silicon	1300		mg/kg		51.1	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Silicon	2790		mg/kg		50.3	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Silicon	846		mg/kg		51.4	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Silicon	876		mg/kg		51.1	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Silicon	1240		mg/kg		50.7	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Silicon	806		mg/kg		51.6	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Silicon	831		mg/kg		51.6	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Silicon	2760		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Silicon	1090		mg/kg		51.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Silicon	1380		mg/kg		50.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Silicon	3580		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Silicon	1330		mg/kg		51.1	0.5289	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Silicon	1120		mg/kg		50.9	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Silicon	3680		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Silicon	907		mg/kg		51.6	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Silicon	1300		mg/kg		51	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Silicon	2780		mg/kg		50.3	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Silicon	1230		mg/kg		51.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Silicon	1180		mg/kg		51.1	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Silicon	2490		mg/kg		50.3	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Silicon	782		mg/kg		52.5	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Silicon	683		mg/kg		51.7	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Silicon	3740		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Silicon	722		mg/kg		51.9	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Silicon	902		mg/kg		52.3	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Silicon	573	J	mg/kg		50.8	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Silicon	538	J	mg/kg		52.2	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Silicon	527	J	mg/kg		53.3	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Silicon	675	J	mg/kg		50.8	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Silicon	530	J	mg/kg		52.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Silicon	535	J	mg/kg		52.5	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Silicon	562	J	mg/kg		50.8	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Silicon	1210		mg/kg		50.4	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Silicon	543	J	mg/kg		52.6	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Silicon	631	J	mg/kg		52.2	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Silicon	335	J	mg/kg		50.8	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Silicon	489	J	mg/kg		54	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Silicon	711		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Silicon	901		mg/kg		63.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Silicon	1120		mg/kg		52.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Silicon	342	J	mg/kg		51	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Silicon	844		mg/kg		50.7	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Silicon	774		mg/kg		52.5	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Silicon	1100		mg/kg		51.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Silicon	375	J	mg/kg		50.7	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Silicon	412		mg/kg		50.5	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Silicon	399		mg/kg		53.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Silicon	648		mg/kg		51.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Silicon	1300		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Silicon	887		mg/kg		51.2	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Silicon	687		mg/kg		51.3	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Silicon	1230		mg/kg		50.5	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Silicon	792		mg/kg		51.8	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Silicon	620		mg/kg		51.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Silicon	1210		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Silicon	742		mg/kg		52	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Silicon	712		mg/kg		51.8	0.5289	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Silicon	4150		mg/kg		50.7	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Silicon	850		mg/kg		51.9	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Silicon	644		mg/kg		52	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Silicon	1240		mg/kg		50.5	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Silicon	949		mg/kg		51.4	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Silicon	538		mg/kg		52	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Silicon	1030		mg/kg		253	2.6445	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Silicon	1360		mg/kg		51.9	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Silicon	854		mg/kg		51.7	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Silicon	634		mg/kg		50.4	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Silicon	703		mg/kg		51.7	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Silicon	572		mg/kg		51.6	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Silicon	541		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Silicon	684		mg/kg		53.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Silicon	608		mg/kg		52.2	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Silicon	721		mg/kg		50.6	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Silicon	653		mg/kg		52.2	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Silicon	610		mg/kg		51.6	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Silicon	519	J	mg/kg		50.3	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Silicon	476	J	mg/kg		52	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Silicon	423	J	mg/kg		52.2	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Silicon	409	J	mg/kg		50.3	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Silicon	719	J	mg/kg		52.3	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Silicon	449	J	mg/kg		51.4	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Silicon	620	J	mg/kg		50.7	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Silicon	497	J	mg/kg		53.1	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Silicon	428	J	mg/kg		52.5	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Silicon	1040		mg/kg		50.4	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Silicon	744		mg/kg		52.7	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Silicon	703		mg/kg		52.8	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Silicon	1060		mg/kg		50.5	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Silicon	462		mg/kg		52.6	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Silicon	435		mg/kg		52.1	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Silicon	686		mg/kg		50.4	0.5289	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Silicon	428		mg/kg		52.9	0.5289	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Silicon	551		mg/kg		51.9	0.5289	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Silver	0.2609	U	mg/kg		1	0.2609	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Silver	0.2609	U	mg/kg		1.3	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Silver	0.2609	U	mg/kg		1	0.2609	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Silver	0.2609	U	mg/kg		1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Silver	0.2609	U	mg/kg		1.1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Silver	0.2609	U	mg/kg		1	0.2609	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Silver	0.2609	U	mg/kg		1.1	0.2609	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Silver	0.2609	U	mg/kg		1	0.2609	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Sodium	159		mg/kg		50.8	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Sodium	449		mg/kg		51.6	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Sodium	797		mg/kg		51.1	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Sodium	146		mg/kg		50.3	7.567	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Sodium	745		mg/kg		51.4	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Sodium	570		mg/kg		51.1	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Sodium	140		mg/kg		50.7	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Sodium	503		mg/kg		51.6	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Sodium	522		mg/kg		51.6	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Sodium	166		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Sodium	487		mg/kg		51.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Sodium	560		mg/kg		50.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Sodium	276		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Sodium	575		mg/kg		51.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Sodium	568		mg/kg		50.9	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Sodium	247		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Sodium	777		mg/kg		51.6	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Sodium	629		mg/kg		51	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Sodium	155		mg/kg		50.3	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Sodium	716		mg/kg		51.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Sodium	938		mg/kg		51.1	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Sodium	152		mg/kg		50.3	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Sodium	796		mg/kg		52.5	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Sodium	1190		mg/kg		51.7	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Sodium	160		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Sodium	821		mg/kg		51.9	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Sodium	815		mg/kg		52.3	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Sodium	515		mg/kg		50.8	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Sodium	730		mg/kg		52.2	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Sodium	668		mg/kg		53.3	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Sodium	372		mg/kg		50.8	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Sodium	660		mg/kg		52.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Sodium	784		mg/kg		52.5	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Sodium	279		mg/kg		50.8	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Sodium	309		mg/kg		50.4	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Sodium	617		mg/kg		52.6	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Sodium	712		mg/kg		52.2	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Sodium	175		mg/kg		50.8	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Sodium	338		mg/kg		54	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Sodium	138		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Sodium	417		mg/kg		63.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Sodium	453		mg/kg		52.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Sodium	155		mg/kg		51	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Sodium	146		mg/kg		50.7	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Sodium	307		mg/kg		52.5	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Sodium	360		mg/kg		51.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Sodium	169		mg/kg		50.7	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Sodium	140		mg/kg		50.5	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Sodium	316		mg/kg		53.1	7.567	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Sodium	455		mg/kg		51.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Sodium	585		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Sodium	1150		mg/kg		51.2	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Sodium	1060		mg/kg		51.3	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Sodium	551		mg/kg		50.5	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Sodium	1320		mg/kg		51.8	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Sodium	980		mg/kg		51.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Sodium	337		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Sodium	1070		mg/kg		52	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Sodium	852		mg/kg		51.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Sodium	589		mg/kg		50.7	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Sodium	502		mg/kg		51.9	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Sodium	502		mg/kg		52	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Sodium	134		mg/kg		50.5	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Sodium	179		mg/kg		51.4	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Sodium	669		mg/kg		52	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Sodium	693		mg/kg		50.5	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Sodium	720		mg/kg		51.9	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Sodium	662		mg/kg		51.7	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Sodium	214		mg/kg		50.4	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Sodium	406		mg/kg		51.7	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Sodium	615		mg/kg		51.6	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Sodium	132		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Sodium	536		mg/kg		53.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Sodium	630		mg/kg		52.2	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Sodium	200		mg/kg		50.6	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Sodium	428		mg/kg		52.2	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Sodium	542		mg/kg		51.6	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Sodium	410		mg/kg		50.3	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Sodium	303		mg/kg		52	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Sodium	213		mg/kg		52.2	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Sodium	128		mg/kg		50.3	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Sodium	413		mg/kg		52.3	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Sodium	196		mg/kg		51.4	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Sodium	357	J	mg/kg		50.7	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Sodium	451	J	mg/kg		53.1	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Sodium	329	J	mg/kg		52.5	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Sodium	151		mg/kg		50.4	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Sodium	914		mg/kg		52.7	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Sodium	937		mg/kg		52.8	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Sodium	170		mg/kg		50.5	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Sodium	436		mg/kg		52.6	7.567	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Sodium	773		mg/kg		52.1	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Sodium	153		mg/kg		50.4	7.567	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Sodium	682		mg/kg		52.9	7.567	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Sodium	802		mg/kg		51.9	7.567	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Strontium	145		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Strontium	209		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Strontium	488		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Strontium	118		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Strontium	258		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Strontium	356		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Strontium	147		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Strontium	219		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Strontium	363		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Strontium	105		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Strontium	168		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Strontium	202		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Strontium	188		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Strontium	209		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Strontium	225		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Strontium	173		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Strontium	184	J-	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Strontium	239	J-	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Strontium	145	J-	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Strontium	294	J-	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Strontium	240	J-	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Strontium	144	J-	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Strontium	219	J-	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Strontium	567	J-	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Strontium	127	J-	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Strontium	230	J-	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Strontium	684	J-	mg/kg		1.1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Strontium	249	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Strontium	441	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Strontium	267	J	mg/kg		1.1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Strontium	402	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Strontium	219	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Strontium	406	J	mg/kg		1.1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Strontium	808	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Strontium	165	J-	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Strontium	182	J	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Strontium	258	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Strontium	142	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Strontium	140	J	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Strontium	113		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Strontium	87.9		mg/kg		1.3	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Strontium	124		mg/kg		1.1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Strontium	131	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Strontium	119		mg/kg		1	0.0735	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Strontium	75.5		mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Strontium	117		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Strontium	166	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Strontium	108		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Strontium	77.8		mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Strontium	114		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Strontium	159	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Strontium	321	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Strontium	379	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Strontium	163	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Strontium	347	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Strontium	411	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Strontium	200	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Strontium	320	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Strontium	394	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Strontium	190		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Strontium	244		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Strontium	277		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Strontium	105	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Strontium	156		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Strontium	496		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Strontium	129		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Strontium	253		mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Strontium	510		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Strontium	126	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Strontium	135	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Strontium	211	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Strontium	97.7	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Strontium	158	J	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Strontium	160	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Strontium	119	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Strontium	159	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Strontium	177	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Strontium	192	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Strontium	260	J	mg/kg		1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Strontium	153	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Strontium	143	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Strontium	364	J	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Strontium	149	J	mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Strontium	203	J	mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Strontium	229	J	mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Strontium	206	J	mg/kg		1.1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Strontium	149		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Strontium	225		mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Strontium	461		mg/kg		1.1	0.0735	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Strontium	133		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Strontium	178		mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Strontium	408		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Strontium	126		mg/kg		1	0.0735	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Strontium	211		mg/kg		1.1	0.0735	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Strontium	342		mg/kg		1	0.0735	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Sulfate	3	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Sulfate	34.1		mg/kg		5.2	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Sulfate	1430		mg/kg		102	12.5	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Sulfate	10.5		mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Sulfate	42.8		mg/kg		5.1	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Sulfate	208		mg/kg		51.1	6.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Sulfate	1.7	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Sulfate	10.7		mg/kg		5.2	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Sulfate	124		mg/kg		51.6	6.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Sulfate	21.9		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Sulfate	678		mg/kg		255	31.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Sulfate	21.2		mg/kg		5.1	0.62	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Sulfate	124		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Sulfate	180		mg/kg		5.1	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Sulfate	49.8		mg/kg		5.1	0.62	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Sulfate	15.9		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Sulfate	311		mg/kg		51.6	6.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Sulfate	17.7		mg/kg		5.1	0.62	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Sulfate	2.2	U	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Sulfate	143		mg/kg		5.1	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Sulfate	107		mg/kg		5.1	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Sulfate	3.5	U	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Sulfate	3240		mg/kg		263	32.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Sulfate	4130		mg/kg		259	31.6	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Sulfate	4.4	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Sulfate	125		mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Sulfate	1440		mg/kg		261	32	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Sulfate	1.6	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Sulfate	15.1	J	mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Sulfate	49.3	J	mg/kg		5.3	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Sulfate	3.3	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Sulfate	49.2	J	mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Sulfate	160	J	mg/kg		5.3	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Sulfate	1.6	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Sulfate	5.2	J	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Sulfate	7.5	J	mg/kg		5.3	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Sulfate	83.5	J	mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Sulfate	3	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Sulfate	132		mg/kg		5.4	0.66	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Sulfate	1	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Sulfate	2.2	U	mg/kg		6.3	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Sulfate	10.8		mg/kg		5.3	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Sulfate	2.8	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Sulfate	0.86	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Sulfate	3.1	U	mg/kg		5.3	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Sulfate	8.6		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Sulfate	4.4	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Sulfate	0.612	U	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Sulfate	7.2		mg/kg		5.3	0.65	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Sulfate	11.3		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Sulfate	29.2		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Sulfate	320		mg/kg		51.2	6.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Sulfate	44.2	B	mg/kg		51.3	6.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Sulfate	23.3		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Sulfate	361		mg/kg		104	12.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Sulfate	32.4		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Sulfate	3.4	B	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Sulfate	102		mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Sulfate	14.8		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Sulfate	570		mg/kg		50.7	6.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Sulfate	182		mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Sulfate	48.5		mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Sulfate	2.9	B	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Sulfate	9		mg/kg		5.1	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Sulfate	14.1		mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Sulfate	115		mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Sulfate	164		mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Sulfate	27.3		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Sulfate	4.5	B	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Sulfate	5	B	mg/kg		5.2	0.63	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Sulfate	108		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Sulfate	2.2	B	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Sulfate	62.3		mg/kg		5.3	0.65	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Sulfate	641		mg/kg		52.2	6.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Sulfate	2.1	B	mg/kg		5.1	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Sulfate	4.3	B	mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Sulfate	73.1		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Sulfate	857		mg/kg		50.3	6.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Sulfate	202		mg/kg		5.2	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Sulfate	147		mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Sulfate	318	J	mg/kg		50.3	6.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Sulfate	419		mg/kg		52.3	6.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Sulfate	63.7		mg/kg		51.4	6.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Sulfate	5.1		mg/kg		5.1	0.62	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Sulfate	108		mg/kg		5.3	0.65	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Sulfate	22.6		mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Sulfate	1.2	U	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Sulfate	45		mg/kg		5.3	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Sulfate	86.6		mg/kg		5.3	0.65	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Sulfate	1.2	U	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Sulfate	4.4	U	mg/kg		5.3	0.64	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Sulfate	62.6		mg/kg		5.2	0.64	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Sulfate	1.4	U	mg/kg		5	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Sulfate	84.4		mg/kg		5.3	0.65	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Sulfate	139		mg/kg		5.2	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thallium	0.59	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thallium	0.32	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thallium	0.44	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thallium	0.6	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thallium	0.29	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thallium	0.21	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thallium	0.52	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thallium	0.25	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thallium	0.29	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thallium	0.68	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thallium	0.79	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thallium	0.47	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thallium	0.2	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thallium	0.61	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thallium	0.52	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thallium	0.56	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thallium	0.38	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thallium	0.96	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thallium	0.28	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thallium	0.24	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thallium	0.43	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thallium	0.59	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thallium	0.21	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thallium	0.63	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thallium	0.59	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thallium	0.5428	U	mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thallium	1.5		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thallium	1.8		mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thallium	1.5		mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thallium	1.7		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thallium	1.4		mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thallium	1.5		mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thallium	1.3		mg/kg		1	0.5428	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thallium	0.5	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thallium	1.8		mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thallium	1.2		mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thallium	1	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thallium	1.8		mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thallium	1.4		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thallium	1	U	mg/kg		1.3	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thallium	1.6		mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thallium	1.1		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thallium	1.5		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thallium	0.4	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thallium	0.58	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thallium	1.1		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thallium	0.5428	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thallium	0.5	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thallium	0.57	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thallium	0.5428	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thallium	0.6	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thallium	0.5428	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thallium	0.36	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thallium	0.5428	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thallium	0.5428	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thallium	0.2	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thallium	0.5428	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thallium	0.39	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thallium	1.1		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thallium	0.74	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thallium	0.76	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thallium	0.74	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thallium	0.5428	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thallium	0.54	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thallium	0.47	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thallium	0.43	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thallium	0.6	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thallium	0.51	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thallium	0.4	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thallium	0.87	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thallium	0.48	U	mg/kg		1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thallium	0.66	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thallium	1.2		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thallium	0.98	U	mg/kg		1	0.5428	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thallium	1.2		mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thallium	0.75	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thallium	0.71	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thallium	1.1		mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thallium	1.7		mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thallium	1.1	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thallium	1.2		mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thallium	1	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thallium	0.5428	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thallium	0.38	U	mg/kg		1.1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thallium	0.5428	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thallium	0.5428	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thallium	0.25	U	mg/kg		1	0.5428	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thallium	0.5428	U	mg/kg		1.1	0.5428	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thallium	0.5428	U	mg/kg		1	0.5428	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thallium-207	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thallium-207	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thallium-207	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thallium-207	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thallium-207	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thallium-207	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thallium-207	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thallium-207	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thallium-207	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thallium-207	0.34	U	pCi/g	0.44	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thallium-207	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thallium-207	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thallium-207	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thallium-207	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thallium-207	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thallium-207	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thallium-207	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thallium-207	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thallium-207	0.38	U	pCi/g	0.52	0.97	0.97	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thallium-207	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thallium-207	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thallium-207	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thallium-207	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thallium-207	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thallium-207	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thallium-207	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thallium-207	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thallium-207	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thallium-207	-0.11	U	pCi/g	0.36	0.62	0.62	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thallium-207	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thallium-207	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thallium-207	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thallium-207	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thallium-207	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thallium-207	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thallium-207	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thallium-207	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thallium-207	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thallium-207	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thallium-207	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thallium-207	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thallium-207	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thallium-207	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thallium-207	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thallium-207	-0.13	U	pCi/g	0.41	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thallium-207	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thallium-207	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thallium-207	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thallium-207	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thallium-207	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thallium-207	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thallium-207	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thallium-207	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thallium-207	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thallium-207	-0.02	U	pCi/g	0.42	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thallium-207	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thallium-207	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thallium-207	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thallium-207	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thallium-207	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thallium-207	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thallium-207	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thallium-207	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thallium-207	-0.05	U	pCi/g	0.38	0.68	0.68	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thallium-207	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thallium-207	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thallium-207	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thallium-207	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thallium-207	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thallium-207	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thallium-207	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thallium-207	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thallium-207	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thallium-207	-0.27	U	pCi/g	0.45	0.75	0.75	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thallium-207	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thallium-207	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thallium-207	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thallium-207	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thallium-207	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thallium-207	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thallium-207	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thallium-207	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thallium-207	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thallium-207	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thallium-207	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thallium-207	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thallium-207	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thallium-207	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thallium-207	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thallium-207	-0.15	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thallium-207	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thallium-207	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thallium-207	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thallium-207	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thallium-207	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thallium-208	0.5		pCi/g	0.16	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thallium-208	0.58		pCi/g	0.14	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thallium-208	0.42		pCi/g	0.15	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thallium-208	0.66		pCi/g	0.16	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thallium-208	0.64		pCi/g	0.15	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thallium-208	0.68		pCi/g	0.15	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thallium-208	0.7		pCi/g	0.16	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thallium-208	0.6		pCi/g	0.16	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thallium-208	0.55		pCi/g	0.13	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thallium-208	0.58		pCi/g	0.15	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thallium-208	0.65		pCi/g	0.15	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thallium-208	0.54		pCi/g	0.14	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thallium-208	0.62		pCi/g	0.15	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thallium-208	0.66		pCi/g	0.16	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thallium-208	0.6		pCi/g	0.13	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thallium-208	0.63		pCi/g	0.13	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thallium-208	0.58		pCi/g	0.14	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thallium-208	0.62		pCi/g	0.14	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thallium-208	0.68		pCi/g	0.16	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thallium-208	0.6		pCi/g	0.16	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thallium-208	0.5		pCi/g	0.13	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thallium-208	0.48		pCi/g	0.13	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thallium-208	0.57		pCi/g	0.14	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thallium-208	0.49		pCi/g	0.13	0.09	0.09	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thallium-208	0.67		pCi/g	0.15	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thallium-208	0.53		pCi/g	0.13	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thallium-208	0.52		pCi/g	0.13	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thallium-208	0.49		pCi/g	0.14	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thallium-208	0.4		pCi/g	0.12	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thallium-208	0.45		pCi/g	0.13	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thallium-208	0.48		pCi/g	0.12	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thallium-208	0.43		pCi/g	0.11	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thallium-208	0.39		pCi/g	0.1	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thallium-208	0.41		pCi/g	0.13	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thallium-208	0.49		pCi/g	0.12	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thallium-208	0.48		pCi/g	0.11	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thallium-208	0.39		pCi/g	0.13	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thallium-208	0.69		pCi/g	0.15	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thallium-208	0.6		pCi/g	0.15	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thallium-208	0.53		pCi/g	0.14	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thallium-208	0.63		pCi/g	0.14	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thallium-208	0.67		pCi/g	0.14	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thallium-208	0.72		pCi/g	0.16	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thallium-208	0.56		pCi/g	0.15	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thallium-208	0.6		pCi/g	0.13	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thallium-208	0.68		pCi/g	0.17	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thallium-208	0.6		pCi/g	0.15	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thallium-208	0.61		pCi/g	0.14	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thallium-208	0.66		pCi/g	0.15	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thallium-208	0.72		pCi/g	0.17	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thallium-208	0.59		pCi/g	0.14	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thallium-208	0.44		pCi/g	0.1	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thallium-208	0.61		pCi/g	0.14	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thallium-208	0.69		pCi/g	0.15	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thallium-208	0.43		pCi/g	0.13	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thallium-208	0.37		pCi/g	0.11	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thallium-208	0.5		pCi/g	0.12	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thallium-208	0.48		pCi/g	0.12	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thallium-208	0.48		pCi/g	0.13	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thallium-208	0.57		pCi/g	0.15	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thallium-208	0.45		pCi/g	0.13	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thallium-208	0.4		pCi/g	0.11	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thallium-208	0.58		pCi/g	0.14	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thallium-208	0.57		pCi/g	0.14	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thallium-208	0.41		pCi/g	0.11	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thallium-208	0.69		pCi/g	0.15	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thallium-208	0.48		pCi/g	0.12	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thallium-208	0.53		pCi/g	0.12	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thallium-208	0.61		pCi/g	0.15	0.1	0.1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thallium-208	0.6		pCi/g	0.16	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thallium-208	0.64		pCi/g	0.14	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thallium-208	0.5		pCi/g	0.12	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thallium-208	0.64		pCi/g	0.14	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thallium-208	0.58		pCi/g	0.15	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thallium-208	0.62		pCi/g	0.14	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thallium-208	0.56		pCi/g	0.13	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thallium-208	0.57		pCi/g	0.14	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thallium-208	0.47		pCi/g	0.12	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thallium-208	0.61		pCi/g	0.13	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thallium-208	0.71		pCi/g	0.16	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thallium-208	0.46		pCi/g	0.11	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thallium-208	0.52		pCi/g	0.15	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thallium-208	0.59		pCi/g	0.15	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thallium-208	0.47		pCi/g	0.14	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thallium-208	0.61		pCi/g	0.16	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thallium-208	0.55		pCi/g	0.13	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thallium-208	0.59		pCi/g	0.14	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thallium-208	0.57		pCi/g	0.13	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thallium-208	0.53		pCi/g	0.13	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thallium-208	0.51		pCi/g	0.13	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thallium-208	0.61		pCi/g	0.14	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thallium-208	0.43		pCi/g	0.13	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thallium-208	0.51		pCi/g	0.13	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thallium-208	0.57		pCi/g	0.14	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thallium-208	0.41		pCi/g	0.12	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-227	-0.19	U	pCi/g	0.46	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-227	-0.29	U	pCi/g	0.43	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-227	-0.41	U	pCi/g	0.45	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-227	0.1	U	pCi/g	0.48	0.85	0.85	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-227	-0.003	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-227	-0.36	U	pCi/g	0.46	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-227	-0.02	U	pCi/g	0.48	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-227	-0.17	U	pCi/g	0.51	0.87	0.87	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-227	0.24	U	pCi/g	0.52	0.93	0.93	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-227	0.34	U	pCi/g	0.44	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-227	0.14	U	pCi/g	0.47	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-227	-0.11	U	pCi/g	0.42	0.72	0.72	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-227	0.08	U	pCi/g	0.45	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-227	0.23	U	pCi/g	0.48	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-227	0.15	U	pCi/g	0.42	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-227	0.2	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-227	0.36	U	pCi/g	0.47	0.86	0.86	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-227	-0.09	U	pCi/g	0.43	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-227	0.38	U	pCi/g	0.52	0.97	0.97	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-227	-0.38	U	pCi/g	0.51	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-227	-0.19	U	pCi/g	0.45	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-227	0.27	U	pCi/g	0.45	0.82	0.82	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-227	0.02	U	pCi/g	0.51	0.88	0.88	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-227	-0.16	U	pCi/g	0.37	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-227	0.13	U	pCi/g	0.48	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-227	0.13	U	pCi/g	0.43	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-227	-0.27	U	pCi/g	0.48	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-227	-0.22	U	pCi/g	0.41	0.7	0.7	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-227	-0.11	U	pCi/g	0.36	0.62	0.62	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-227	-0.25	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-227	0.06	U	pCi/g	0.41	0.74	0.74	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-227	-0.15	U	pCi/g	0.39	0.66	0.66	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-227	0.12	U	pCi/g	0.34	0.63	0.63	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-227	-0.27	U	pCi/g	0.41	0.68	0.68	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-227	-0.42	U	pCi/g	0.42	0.66	0.66	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-227	0.15	U	pCi/g	0.38	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-227	0.04	U	pCi/g	0.44	0.78	0.78	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-227	0.36	U	pCi/g	0.41	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-227	0.3	U	pCi/g	0.52	0.95	0.95	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-227	0.23	U	pCi/g	0.43	0.77	0.77	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-227	0.13	U	pCi/g	0.45	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-227	-0.03	U	pCi/g	0.43	0.76	0.76	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-227	0.008	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-227	-0.05	U	pCi/g	0.41	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-227	-0.13	U	pCi/g	0.41	0.71	0.71	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-227	0.02	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-227	0.06	U	pCi/g	0.44	0.79	0.79	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-227	-0.28	U	pCi/g	0.46	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-227	0.21	U	pCi/g	0.47	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-227	-0.02	U	pCi/g	0.49	0.87	0.87	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-227	-0.29	U	pCi/g	0.51	0.84	0.84	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-227	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-227	-0.07	U	pCi/g	0.44	0.77	0.77	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-227	0.2	U	pCi/g	0.4	0.73	0.73	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-227	-0.02	U	pCi/g	0.42	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-227	0.11	U	pCi/g	0.46	0.82	0.82	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-227	-0.27	U	pCi/g	0.41	0.69	0.69	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-227	-0.32	U	pCi/g	0.43	0.7	0.7	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-227	-0.37	U	pCi/g	0.46	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-227	-0.13	U	pCi/g	0.45	0.78	0.78	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-227	0.12	U	pCi/g	0.46	0.84	0.84	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-227	-0.11	U	pCi/g	0.42	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-227	0.03	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-227	-0.05	U	pCi/g	0.38	0.68	0.68	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-227	-0.24	U	pCi/g	0.4	0.67	0.67	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-227	-0.18	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-227	-0.11	U	pCi/g	0.47	0.8	0.8	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-227	-0.12	U	pCi/g	0.4	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-227	0.13	U	pCi/g	0.44	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-227	-0.24	U	pCi/g	0.44	0.74	0.74	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-227	-0.17	U	pCi/g	0.49	0.83	0.83	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-227	-0.32	U	pCi/g	0.35	0.58	0.58	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-227	0.03	U	pCi/g	0.48	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-227	-0.27	U	pCi/g	0.45	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-227	0.14	U	pCi/g	0.46	0.81	0.81	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-227	0.13	U	pCi/g	0.42	0.76	0.76	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-227	0.37	U	pCi/g	0.49	0.91	0.91	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-227	-0.29	U	pCi/g	0.38	0.62	0.62	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-227	-0.52	U	pCi/g	0.47	0.72	0.72	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-227	0.31	U	pCi/g	0.4	0.75	0.75	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-227	-0.49	U	pCi/g	0.38	0.59	0.59	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-227	0.4	U	pCi/g	0.49	0.93	0.93	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-227	-0.33	U	pCi/g	0.44	0.73	0.73	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-227	-0.06	U	pCi/g	0.43	0.76	0.76	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-227	-0.29	U	pCi/g	0.47	0.77	0.77	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-227	-0.1	U	pCi/g	0.39	0.68	0.68	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-227	0.26	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-227	-0.07	U	pCi/g	0.38	0.67	0.67	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-227	0.03	U	pCi/g	0.46	0.8	0.8	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-227	-0.15	U	pCi/g	0.42	0.72	0.72	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-227	0.06	U	pCi/g	0.42	0.75	0.75	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-227	-0.04	U	pCi/g	0.39	0.69	0.69	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-227	0.03	U	pCi/g	0.45	0.8	0.8	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-227	-0.2	U	pCi/g	0.51	0.85	0.85	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-227	-0.06	U	pCi/g	0.4	0.71	0.71	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-228	2.09		pCi/g	0.46	0.23	0.23	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-228	1.83		pCi/g	0.34	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-228	1.5		pCi/g	0.3	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-228	1.67		pCi/g	0.33	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-228	1.91		pCi/g	0.35	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-228	1.38		pCi/g	0.28	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-228	2.28		pCi/g	0.44	0.29	0.29	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-228	1.95		pCi/g	0.39	0.26	0.26	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-228	1.38		pCi/g	0.31	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-228	2.09		pCi/g	0.43	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-228	1.97		pCi/g	0.42	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-228	1.86		pCi/g	0.4	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-228	1.66		pCi/g	0.31	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-228	2.03		pCi/g	0.44	0.3	0.3	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-228	1.56		pCi/g	0.36	0.28	0.28	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-228	1.9		pCi/g	0.42	0.21	0.21	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-228	2.08		pCi/g	0.36	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-228	1.97		pCi/g	0.34	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-228	1.89		pCi/g	0.39	0.19	0.19	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-228	1.85		pCi/g	0.44	0.22	0.22	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-228	1.81		pCi/g	0.48	0.25	0.25	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-228	1.52		pCi/g	0.35	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-228	1.93		pCi/g	0.35	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-228	1.47		pCi/g	0.35	0.27	0.27	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-228	2.09		pCi/g	0.48	0.35	0.35	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-228	2.14		pCi/g	0.47	0.24	0.24	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-228	1.38		pCi/g	0.36	0.31	0.31	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-228	1.15		pCi/g	0.26	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-228	1.33		pCi/g	0.29	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-228	1.43		pCi/g	0.29	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-228	1.85		pCi/g	0.38	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-228	1.63		pCi/g	0.31	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-228	1.27		pCi/g	0.33	0.28	0.28	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-228	1.76		pCi/g	0.33	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-228	1.41		pCi/g	0.29	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-228	1.4		pCi/g	0.32	0.16	0.16	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-228	1.82		pCi/g	0.34	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-228	2.01		pCi/g	0.39	0.27	0.27	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-228	2.03		pCi/g	0.36	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-228	1.71		pCi/g	0.44	0.34	0.34	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-228	2.15		pCi/g	0.41	0.27	0.27	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-228	2.11		pCi/g	0.38	0.16	0.16	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-228	1.65		pCi/g	0.34	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-228	1.55		pCi/g	0.27	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-228	2.06		pCi/g	0.35	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-228	1.91		pCi/g	0.33	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-228	1.99		pCi/g	0.43	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-228	1.93		pCi/g	0.33	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-228	2.09		pCi/g	0.33	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-228	1.66		pCi/g	0.31	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-228	1.67		pCi/g	0.31	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-228	1.79		pCi/g	0.39	0.29	0.29	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-228	1.5		pCi/g	0.34	0.18	0.18	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-228	2.09		pCi/g	0.37	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-228	1.62		pCi/g	0.32	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-228	1.64		pCi/g	0.32	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-228	1.96		pCi/g	0.37	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-228	1.41		pCi/g	0.3	0.14	0.14	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-228	1.5		pCi/g	0.35	0.18	0.18	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-228	1.83		pCi/g	0.39	0.27	0.27	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-228	1.34		pCi/g	0.36	0.3	0.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-228	1.16		pCi/g	0.26	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-228	1.82		pCi/g	0.32	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-228	1.61		pCi/g	0.33	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-228	1.42		pCi/g	0.32	0.24	0.24	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-228	1.88		pCi/g	0.38	0.18	0.18	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-228	1.5		pCi/g	0.37	0.21	0.21	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-228	1.22		pCi/g	0.33	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-228	1.85		pCi/g	0.33	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-228	1.97		pCi/g	0.43	0.31	0.31	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-228	1.86		pCi/g	0.37	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-228	1.8		pCi/g	0.36	0.17	0.17	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-228	1.79		pCi/g	0.37	0.18	0.18	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-228	1.91		pCi/g	0.42	0.19	0.19	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-228	1.74		pCi/g	0.35	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-228	1.87		pCi/g	0.33	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-228	1.84		pCi/g	0.38	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-228	1.5		pCi/g	0.32	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-228	1.82		pCi/g	0.34	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-228	1.37		pCi/g	0.61	0.61	0.61	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-228	1.77		pCi/g	0.35	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-228	1.98		pCi/g	0.44	0.32	0.32	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-228	1.78		pCi/g	0.35	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-228	1.9		pCi/g	0.38	0.25	0.25	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-228	1.67		pCi/g	0.32	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-228	2.13		pCi/g	0.39	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-228	1.92		pCi/g	0.38	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-228	1.31		pCi/g	0.28	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-228	1.6		pCi/g	0.33	0.15	0.15	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-228	1.62		pCi/g	0.29	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-228	1.73		pCi/g	0.32	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-228	1.45		pCi/g	0.28	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-228	1.72		pCi/g	0.3	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-228	1.65		pCi/g	0.31	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-228	1.28		pCi/g	0.25	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-230	1.25		pCi/g	0.32	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-230	1.28		pCi/g	0.27	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-230	1.55		pCi/g	0.3	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-230	1.42		pCi/g	0.29	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-230	1.2		pCi/g	0.26	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-230	1.65		pCi/g	0.3	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-230	1.24		pCi/g	0.27	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-230	1.09		pCi/g	0.25	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-230	1.62		pCi/g	0.32	0.08	0.08	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-230	1.7		pCi/g	0.37	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-230	1.15		pCi/g	0.29	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-230	1.56		pCi/g	0.35	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-230	1.21		pCi/g	0.25	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-230	1.07		pCi/g	0.27	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-230	1.03		pCi/g	0.24	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-230	1.41		pCi/g	0.33	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-230	1.46		pCi/g	0.29	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-230	1.1		pCi/g	0.24	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-230	1.22		pCi/g	0.29	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-230	1.67		pCi/g	0.4	0.13	0.13	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-230	1.5		pCi/g	0.41	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-230	0.99	J	pCi/g	0.26	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-230	1.11		pCi/g	0.25	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-230	1.57		pCi/g	0.32	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-230	1.55		pCi/g	0.35	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-230	1.7		pCi/g	0.39	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-230	2.24		pCi/g	0.4	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-230	0.88	J	pCi/g	0.21	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-230	0.92	J	pCi/g	0.23	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-230	0.98	J	pCi/g	0.23	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-230	0.77	J	pCi/g	0.21	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-230	0.95	J	pCi/g	0.22	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-230	0.81	J	pCi/g	0.21	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-230	0.86	J	pCi/g	0.21	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-230	0.82	J	pCi/g	0.21	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-230	1.05		pCi/g	0.26	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-230	0.92	J	pCi/g	0.23	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-230	0.93	J	pCi/g	0.23	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-230	1.08		pCi/g	0.24	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-230	1		pCi/g	0.28	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-230	1.19		pCi/g	0.26	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-230	0.97	J	pCi/g	0.23	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-230	1.15		pCi/g	0.26	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-230	0.73	J	pCi/g	0.18	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-230	1.42		pCi/g	0.28	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-230	0.98	J	pCi/g	0.22	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-230	0.93	J	pCi/g	0.26	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-230	0.94	J	pCi/g	0.21	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-230	1.32		pCi/g	0.25	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-230	1.16		pCi/g	0.25	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-230	1.23		pCi/g	0.26	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-230	1.21		pCi/g	0.27	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-230	1.92		pCi/g	0.37	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-230	1.26		pCi/g	0.27	0.1	0.1	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-230	1.18		pCi/g	0.25	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-230	1.45		pCi/g	0.29	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-230	1.33		pCi/g	0.29	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-230	1.5		pCi/g	0.3	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-230	1.61		pCi/g	0.35	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-230	1.36		pCi/g	0.29	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-230	1.73		pCi/g	0.34	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-230	1.81		pCi/g	0.32	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-230	1.15		pCi/g	0.24	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-230	1.49		pCi/g	0.31	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-230	1.67		pCi/g	0.31	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-230	1.24		pCi/g	0.29	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-230	2.44		pCi/g	0.46	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-230	2.15		pCi/g	0.43	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-230	1.16		pCi/g	0.25	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-230	1.21		pCi/g	0.28	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-230	1.22		pCi/g	0.28	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-230	0.95	J	pCi/g	0.24	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-230	1.16		pCi/g	0.28	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-230	1.23		pCi/g	0.31	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-230	1.35		pCi/g	0.3	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-230	1.27		pCi/g	0.26	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-230	1.66		pCi/g	0.35	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-230	0.92	J	pCi/g	0.23	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-230	1.13		pCi/g	0.26	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-230	1.3		pCi/g	0.44	0.24	0.24	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-230	0.91	J	pCi/g	0.23	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-230	1.04		pCi/g	0.26	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-230	1.69		pCi/g	0.33	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-230	1.2		pCi/g	0.26	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-230	0.75	J	pCi/g	0.2	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-230	1.39		pCi/g	0.29	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-230	1.06		pCi/g	0.26	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-230	0.8	J	pCi/g	0.2	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-230	3.01		pCi/g	0.47	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-230	1.35		pCi/g	0.26	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-230	1.12		pCi/g	0.25	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-230	2.25		pCi/g	0.36	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-230	1.19		pCi/g	0.24	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-230	1.39		pCi/g	0.28	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-230	2.32		pCi/g	0.36	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-231	0.011	U	pCi/g	0.058	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-231	0.12	U	pCi/g	0.1	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-231	0.043	U	pCi/g	0.058	0.039	0.039	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-231	0.042	U	pCi/g	0.056	0.037	0.037	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-231	0.04	U	pCi/g	0.068	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-231	0.06	U	pCi/g	0.073	0.092	0.092	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-231	0.064	U	pCi/g	0.086	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-231	0.058	U	pCi/g	0.079	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-231	0.17	U	pCi/g	0.11	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-231	0.076	U	pCi/g	0.085	0.051	0.051	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-231	0.014	U	pCi/g	0.041	0.039	0.039	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-231	0	U	pCi/g	0	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-231	0.011	U	pCi/g	0.059	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-231	0.086	U	pCi/g	0.084	0.096	0.096	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-231	0.031	U	pCi/g	0.051	0.074	0.074	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-231	0	U	pCi/g	0	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-231	0.067	U	pCi/g	0.091	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-231	0.001	U	pCi/g	0.044	0.097	0.097	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-231	0.059	U	pCi/g	0.07	0.089	0.089	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-231	0.045	U	pCi/g	0.061	0.081	0.081	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-231	0.077	U	pCi/g	0.076	0.042	0.042	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-231	0.03	U	pCi/g	0.052	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-231	0.13	U	pCi/g	0.1	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-231	0.099	U	pCi/g	0.088	0.094	0.094	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-231	0.098	U	pCi/g	0.085	0.072	0.072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-231	0.0009	U	pCi/g	0.041	0.091	0.091	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-231	0.13	U	pCi/g	0.1	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-231	0.059	U	pCi/g	0.067	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-231	0.043	U	pCi/g	0.057	0.038	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-231	0.076	U	pCi/g	0.091	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-231	0.036	U	pCi/g	0.088	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-231	0.001	U	pCi/g	0.042	0.094	0.094	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-231	0.087	U	pCi/g	0.078	0.081	0.081	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-231	0.061	U	pCi/g	0.068	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-231	0.032	U	pCi/g	0.061	0.095	0.095	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-231	0.084	U	pCi/g	0.085	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-231	0.101	U	pCi/g	0.089	0.096	0.096	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-231	0.048	U	pCi/g	0.064	0.085	0.085	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-231	0.083	U	pCi/g	0.082	0.045	0.045	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-231	0.049	U	pCi/g	0.053	0.055	0.055	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-231	0.053	U	pCi/g	0.06	0.036	0.036	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-231	0.037	U	pCi/g	0.049	0.033	0.033	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-231	0.124	U	pCi/g	0.094	0.042	0.042	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-231	0.073	U	pCi/g	0.081	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-231	0.062	U	pCi/g	0.067	0.069	0.069	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-231	0.102	U	pCi/g	0.095	0.01	0.01	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-231	0.054	U	pCi/g	0.072	0.048	0.048	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-231	0.08	U	pCi/g	0.084	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-231	0.027	U	pCi/g	0.066	0.11	0.11	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-231	0.087	U	pCi/g	0.078	0.081	0.081	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-231	0.038	U	pCi/g	0.055	0.076	0.076	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-231	0.034	U	pCi/g	0.059	0.087	0.087	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-231	0.052	U	pCi/g	0.07	0.093	0.093	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-231	0.09	J	pCi/g	0.073	0.035	0.035	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-231	0.055	J	pCi/g	0.062	0.038	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-231	0.092	J	pCi/g	0.075	0.036	0.036	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-231	0	U	pCi/g	0	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-231	0.048	U	pCi/g	0.062	0.081	0.081	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-231	0.107	J	pCi/g	0.079	0.058	0.058	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-231	0.059	U	pCi/g	0.076	0.099	0.099	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-231	0.093	U	pCi/g	0.08	0.068	0.068	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-231	0.126	J+	pCi/g	0.089	0.038	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-231	0.068	U	pCi/g	0.075	0.091	0.091	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-231	0.047	U	pCi/g	0.069	0.095	0.095	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-231	0.058	U	pCi/g	0.084	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-231	0.066	U	pCi/g	0.066	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-231	0.089	U	pCi/g	0.073	0.066	0.066	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-231	0.21	J+	pCi/g	0.11	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-231	0.054	J	pCi/g	0.053	0.029	0.029	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-231	0.047	J	pCi/g	0.053	0.032	0.032	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-231	0.047	U	pCi/g	0.055	0.064	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-231	0.03	U	pCi/g	0.059	0.091	0.091	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-231	0.043	U	pCi/g	0.062	0.086	0.086	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-231	0.077	U	pCi/g	0.093	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-231	0.097	J	pCi/g	0.077	0.075	0.075	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-231	0.052	J	pCi/g	0.058	0.035	0.035	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-231	0.063	U	pCi/g	0.073	0.091	0.091	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-231	0.11	U	pCi/g	0.11	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-231	0.12	U	pCi/g	0.1	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-231	0.087	U	pCi/g	0.083	0.077	0.077	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-231	0.101	U	pCi/g	0.08	0.063	0.063	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-231	0.057	U	pCi/g	0.069	0.087	0.087	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-231	0.016	U	pCi/g	0.052	0.094	0.094	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-231	0.054	U	pCi/g	0.06	0.036	0.036	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-231	0.052	U	pCi/g	0.071	0.096	0.096	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-231	0.041	U	pCi/g	0.065	0.093	0.093	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-231	0.13	U	pCi/g	0.1	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-231	0.027	U	pCi/g	0.045	0.064	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-231	0.1	U	pCi/g	0.093	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-231	0.088	U	pCi/g	0.082	0.089	0.089	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-231	0.09	U	pCi/g	0.084	0.091	0.091	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-231	0.06	U	pCi/g	0.082	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-231	0.06	U	pCi/g	0.067	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-231	0.058	U	pCi/g	0.065	0.039	0.039	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-231	0.18	J+	pCi/g	0.11	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-232	1.78		pCi/g	0.4	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-232	1.43		pCi/g	0.28	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-232	1.46		pCi/g	0.29	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-232	1.94		pCi/g	0.35	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-232	1.63		pCi/g	0.32	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-232	1.52		pCi/g	0.29	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-232	2.23		pCi/g	0.38	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-232	1.51		pCi/g	0.3	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-232	1.5		pCi/g	0.3	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-232	1.9		pCi/g	0.39	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-232	2.06		pCi/g	0.41	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-232	1.69		pCi/g	0.36	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-232	1.81		pCi/g	0.32	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-232	2		pCi/g	0.39	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-232	1.37		pCi/g	0.28	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-232	2.12		pCi/g	0.42	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-232	2.04		pCi/g	0.35	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-232	1.98		pCi/g	0.34	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-232	2.05		pCi/g	0.39	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-232	1.5		pCi/g	0.37	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-232	2.1		pCi/g	0.5	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-232	1.77		pCi/g	0.36	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-232	1.53		pCi/g	0.31	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-232	1.52		pCi/g	0.31	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-232	2.09		pCi/g	0.41	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-232	1.97		pCi/g	0.43	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-232	1.38		pCi/g	0.3	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-232	1.32		pCi/g	0.26	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-232	1.3		pCi/g	0.27	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-232	1.42		pCi/g	0.28	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-232	1.77		pCi/g	0.33	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-232	1.5		pCi/g	0.29	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-232	1.52		pCi/g	0.3	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-232	1.34		pCi/g	0.27	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-232	1.43		pCi/g	0.29	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-232	1.38		pCi/g	0.3	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-232	1.69		pCi/g	0.31	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-232	1.53		pCi/g	0.29	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-232	1.55		pCi/g	0.29	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-232	1.75		pCi/g	0.38	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-232	1.92		pCi/g	0.34	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-232	2.06		pCi/g	0.36	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-232	1.57		pCi/g	0.31	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-232	1.52		pCi/g	0.27	0.03	0.03	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-232	1.91		pCi/g	0.33	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-232	1.77		pCi/g	0.31	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-232	1.84		pCi/g	0.39	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-232	1.8		pCi/g	0.31	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-232	1.78		pCi/g	0.3	0.04	0.04	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-232	1.79		pCi/g	0.32	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-232	1.82		pCi/g	0.32	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-232	1.7		pCi/g	0.33	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-232	1.59		pCi/g	0.33	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-232	2.08		pCi/g	0.36	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-232	1.24		pCi/g	0.26	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-232	1.33		pCi/g	0.27	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-232	2		pCi/g	0.36	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-232	1.3		pCi/g	0.28	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-232	1.28		pCi/g	0.3	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-232	1.89		pCi/g	0.35	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-232	1.22		pCi/g	0.27	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-232	1.26		pCi/g	0.26	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-232	1.45		pCi/g	0.27	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-232	1.31		pCi/g	0.29	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-232	1.34		pCi/g	0.27	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-232	1.97		pCi/g	0.37	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-232	1.26		pCi/g	0.31	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-232	1.23		pCi/g	0.31	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-232	1.82		pCi/g	0.32	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-232	2.01		pCi/g	0.37	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-232	1.9		pCi/g	0.36	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-232	1.79		pCi/g	0.34	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-232	1.57		pCi/g	0.33	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-232	1.89		pCi/g	0.4	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-232	1.52		pCi/g	0.31	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-232	1.77		pCi/g	0.31	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-232	1.91		pCi/g	0.38	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-232	1.57		pCi/g	0.32	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-232	1.97		pCi/g	0.36	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-232	1.41		pCi/g	0.45	0.21	0.21	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-232	1.71		pCi/g	0.33	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-232	1.74		pCi/g	0.35	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-232	1.85		pCi/g	0.34	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-232	1.54		pCi/g	0.3	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-232	1.4		pCi/g	0.27	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-232	1.69		pCi/g	0.33	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-232	1.7		pCi/g	0.34	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-232	1.36		pCi/g	0.27	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-232	1.34		pCi/g	0.29	0.07	0.07	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-232	1.72		pCi/g	0.3	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-232	1.74		pCi/g	0.32	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-232	1.47		pCi/g	0.28	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-232	1.51		pCi/g	0.28	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-232	1.6		pCi/g	0.31	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-232	1.25		pCi/g	0.24	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Thorium-234	2.02		pCi/g	0.57	0.98	0.98	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Thorium-234	2.16		pCi/g	0.69	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Thorium-234	1.35		pCi/g	0.73	1.3	1.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Thorium-234	1.64		pCi/g	0.55	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Thorium-234	2		pCi/g	1	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Thorium-234	1.79		pCi/g	0.56	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Thorium-234	0.72	U	pCi/g	0.69	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Thorium-234	1.19	U	pCi/g	0.77	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Thorium-234	2.5		pCi/g	0.89	1.4	1.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Thorium-234	1.84		pCi/g	0.55	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Thorium-234	2.18		pCi/g	0.82	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Thorium-234	1.2		pCi/g	0.66	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Thorium-234	0.83	U	pCi/g	0.64	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Thorium-234	0.75	U	pCi/g	0.82	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Thorium-234	1.66		pCi/g	0.5	0.86	0.86	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Thorium-234	2.07		pCi/g	0.57	0.98	0.98	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Thorium-234	0.97	U	pCi/g	0.75	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Thorium-234	1.37		pCi/g	0.72	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Thorium-234	-0.26	U	pCi/g	0.92	1.4	1.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Thorium-234	1.64		pCi/g	0.58	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Thorium-234	0.85	U	pCi/g	0.72	1.3	1.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Thorium-234	1.2		pCi/g	0.65	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Thorium-234	1.82		pCi/g	0.57	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Thorium-234	1.57		pCi/g	0.67	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Thorium-234	1	U	pCi/g	1.2	1.4	1.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Thorium-234	0.46	U	pCi/g	0.62	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Thorium-234	1.05	U	pCi/g	0.48	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Thorium-234	1.05	U	pCi/g	0.65	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Thorium-234	0.32	U	pCi/g	0.66	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Thorium-234	0.46	U	pCi/g	0.69	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Thorium-234	0.81	U	pCi/g	0.63	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Thorium-234	0.77	U	pCi/g	0.64	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Thorium-234	1.11		pCi/g	0.87	0.92	0.92	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Thorium-234	1.68		pCi/g	0.74	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Thorium-234	1.36		pCi/g	0.68	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Thorium-234	1.35		pCi/g	0.94	0.83	0.83	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Thorium-234	0.24	U	pCi/g	0.65	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Thorium-234	2.06		pCi/g	0.55	0.95	0.95	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Thorium-234	2.3		pCi/g	1.1	1.4	1.4	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Thorium-234	1.77		pCi/g	0.5	0.9	0.9	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Thorium-234	1.76		pCi/g	0.53	0.99	0.99	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Thorium-234	0.75	U	pCi/g	0.36	0.92	0.92	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Thorium-234	1.86		pCi/g	0.69	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Thorium-234	1.1	U	pCi/g	0.68	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Thorium-234	1.58		pCi/g	0.46	0.81	0.81	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Thorium-234	1.51		pCi/g	0.8	1.4	1.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Thorium-234	1.21	U	pCi/g	0.73	1.4	1.4	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Thorium-234	1.73		pCi/g	0.69	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Thorium-234	-0.53	U	pCi/g	0.9	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Thorium-234	1.39	U	pCi/g	0.77	1.4	1.4	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Thorium-234	1.5		pCi/g	0.69	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Thorium-234	-0.26	U	pCi/g	0.69	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Thorium-234	1.55		pCi/g	0.74	1.3	1.3	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Thorium-234	1.84		pCi/g	0.53	0.95	0.95	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Thorium-234	1.54		pCi/g	0.78	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Thorium-234	0.43	U	pCi/g	0.65	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Thorium-234	1.12		pCi/g	0.92	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Thorium-234	0.84	U	pCi/g	0.67	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Thorium-234	1.52		pCi/g	0.51	1	1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Thorium-234	1.85		pCi/g	0.54	0.87	0.87	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Thorium-234	0.75	U	pCi/g	0.7	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Thorium-234	1.19		pCi/g	0.62	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Thorium-234	1.43		pCi/g	0.74	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Thorium-234	1.35		pCi/g	0.72	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Thorium-234	2.29		pCi/g	0.81	0.99	0.99	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Thorium-234	1.31		pCi/g	0.48	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Thorium-234	1.73		pCi/g	0.58	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Thorium-234	1.85		pCi/g	0.7	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Thorium-234	1.43		pCi/g	0.77	1.3	1.3	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Thorium-234	1.62		pCi/g	0.7	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Thorium-234	1.71		pCi/g	0.55	1.1	1.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Thorium-234	0.58	U	pCi/g	0.57	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Thorium-234	1.6		pCi/g	0.76	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Thorium-234	2.01		pCi/g	0.7	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Thorium-234	1.72		pCi/g	0.54	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Thorium-234	1.4		pCi/g	0.65	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Thorium-234	0.27	U	pCi/g	0.69	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Thorium-234	0.6	U	pCi/g	0.59	1	1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Thorium-234	1.3		pCi/g	1.1	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Thorium-234	1.48		pCi/g	0.49	0.85	0.85	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Thorium-234	1.92		pCi/g	0.7	0.91	0.91	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Thorium-234	0.95	U	pCi/g	0.73	1.4	1.4	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Thorium-234	2.08		pCi/g	0.68	1.2	1.2	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Thorium-234	0.73	U	pCi/g	0.65	1.2	1.2	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Thorium-234	0.32	U	pCi/g	0.81	1.2	1.2	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Thorium-234	1.44		pCi/g	0.47	0.9	0.9	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Thorium-234	1.27		pCi/g	0.48	1.1	1.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Thorium-234	1.24		pCi/g	0.59	1	1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Thorium-234	1.59		pCi/g	0.51	0.95	0.95	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Thorium-234	0.97	U	pCi/g	0.7	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Thorium-234	1	U	pCi/g	0.64	1.1	1.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Thorium-234	1.6		pCi/g	0.5	0.86	0.86	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Thorium-234	0.78	U	pCi/g	0.7	1.2	1.2	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Thorium-234	0.92	U	pCi/g	0.72	1.3	1.3	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Thorium-234	1.8		pCi/g	0.53	0.92	0.92	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Tin	0.78	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Tin	0.32	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Tin	0.41	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Tin	0.66	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Tin	0.45	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Tin	0.29	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Tin	0.56	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Tin	0.25	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Tin	0.24	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Tin	0.38	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Tin	0.43	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Tin	0.4	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Tin	0.53	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Tin	0.62	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Tin	0.43	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Tin	0.56	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Tin	0.4	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Tin	0.51	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Tin	0.67	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Tin	0.52	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Tin	0.4	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Tin	0.54	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Tin	0.4	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Tin	0.4	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Tin	0.66	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Tin	0.44	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Tin	0.37	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Tin	0.58	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Tin	0.68	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Tin	0.5	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Tin	0.61	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Tin	0.57	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Tin	0.63	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Tin	0.65	J	mg/kg		1	0.187	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Tin	0.5	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Tin	0.53	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Tin	0.53	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Tin	0.59	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Tin	0.55	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Tin	0.47	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Tin	0.37	J	mg/kg		1.3	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Tin	0.46	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Tin	0.55	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Tin	0.52	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Tin	0.48	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Tin	0.52	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Tin	0.61	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Tin	0.44	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Tin	0.4	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Tin	0.52	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Tin	0.51	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Tin	0.52	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Tin	0.39	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Tin	0.61	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Tin	0.46	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Tin	0.39	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Tin	0.55	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Tin	0.44	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Tin	0.38	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Tin	0.63	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Tin	0.48	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Tin	0.33	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Tin	0.54	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Tin	0.42	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Tin	0.36	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Tin	0.54	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Tin	0.43	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Tin	0.39	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Tin	0.63	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Tin	0.53	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Tin	0.58	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Tin	0.41	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Tin	0.53	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Tin	0.45	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Tin	0.53	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Tin	0.49	J	mg/kg		1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Tin	0.55	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Tin	0.59	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Tin	0.55	J	mg/kg		1	0.187	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Tin	0.51	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Tin	0.8	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Tin	0.75	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Tin	0.46	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Tin	0.69	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Tin	0.63	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Tin	0.59	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Tin	0.61	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Tin	0.39	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Tin	0.44	J	mg/kg		1.1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Tin	0.51	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Tin	0.42	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Tin	0.32	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Tin	0.41	J	mg/kg		1	0.187	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Tin	0.4	J	mg/kg		1.1	0.187	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Tin	0.34	J	mg/kg		1	0.187	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Titanium	681		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Titanium	376		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Titanium	490		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Titanium	571		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Titanium	570		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Titanium	262		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Titanium	472		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Titanium	311		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Titanium	352		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Titanium	371		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Titanium	536		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Titanium	586		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Titanium	549		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Titanium	703		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Titanium	582		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Titanium	530		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Titanium	495		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Titanium	616		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Titanium	641		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Titanium	673		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Titanium	483		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Titanium	562		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Titanium	531		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Titanium	448		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Titanium	558		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Titanium	539		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Titanium	414		mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Titanium	702	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Titanium	958	J	mg/kg		1	0.1175	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Titanium	701	J	mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Titanium	936	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Titanium	704	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Titanium	758	J	mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Titanium	779	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Titanium	510		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Titanium	749	J	mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Titanium	739	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Titanium	839	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Titanium	515	J	mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Titanium	535		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Titanium	388		mg/kg		1.3	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Titanium	436		mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Titanium	659	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Titanium	624		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Titanium	432		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Titanium	509		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Titanium	673	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Titanium	458		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Titanium	368		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Titanium	512		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Titanium	478	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Titanium	545	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Titanium	533	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Titanium	589	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Titanium	651	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Titanium	481	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Titanium	540	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Titanium	590	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Titanium	503	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Titanium	481		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Titanium	299		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Titanium	330		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Titanium	550	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Titanium	393		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Titanium	312		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Titanium	467		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Titanium	366		mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Titanium	386		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Titanium	683	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Titanium	673	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Titanium	657	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Titanium	509	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Titanium	600	J	mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Titanium	473	J	mg/kg		1	0.1175	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Titanium	618	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Titanium	531	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Titanium	621	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Titanium	677	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Titanium	671	J	mg/kg		1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Titanium	674	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Titanium	438	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Titanium	1010	J	mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Titanium	597	J	mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Titanium	864	J	mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Titanium	879	J	mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Titanium	858	J	mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Titanium	572		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Titanium	446		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Titanium	504		mg/kg		1.1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Titanium	618		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Titanium	492		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Titanium	416		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Titanium	459		mg/kg		1	0.1175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Titanium	461		mg/kg		1.1	0.1175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Titanium	402		mg/kg		1	0.1175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Tungsten	1.4	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Tungsten	1.1	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Tungsten	1.8	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Tungsten	0.97	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Tungsten	1.3	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Tungsten	0.67	U	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Tungsten	1.6	U	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Tungsten	0.66	U	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Tungsten	1.2	U	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Tungsten	0.77	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Tungsten	0.97	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Tungsten	0.89	UJ	mg/kg		2.5	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Tungsten	0.75	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Tungsten	1.8	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Tungsten	1.4	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Tungsten	1.1	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Tungsten	1.5	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Tungsten	2.1	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Tungsten	1.7	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Tungsten	2.2	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Tungsten	1.2	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Tungsten	1.2	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Tungsten	1	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Tungsten	1	UJ	mg/kg		2.6	0.0175	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Tungsten	0.95	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Tungsten	1.8	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Tungsten	1.6	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Tungsten	2.5	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Tungsten	1.8	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Tungsten	1.1	UJ	mg/kg		2.7	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Tungsten	0.93	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Tungsten	1.1	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Tungsten	2	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Tungsten	1.5	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Tungsten	1.6	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Tungsten	1.2	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Tungsten	1.2	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Tungsten	0.86	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Tungsten	1	UJ	mg/kg		2.7	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Tungsten	1	U	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Tungsten	1	U	mg/kg		3.2	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Tungsten	0.84	U	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Tungsten	1.7	UJ	mg/kg		2.6	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Tungsten	0.73	U	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Tungsten	0.64	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Tungsten	0.51	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Tungsten	1.3	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Tungsten	1.4	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Tungsten	0.99	UJ	mg/kg		2.7	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Tungsten	0.89	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Tungsten	1	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Tungsten	1.8	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Tungsten	1.7	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Tungsten	1.1	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Tungsten	1.1	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Tungsten	0.87	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Tungsten	0.89	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Tungsten	0.88	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Tungsten	0.67	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Tungsten	1.9	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Tungsten	1.4	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Tungsten	1.3	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Tungsten	0.49	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Tungsten	2	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Tungsten	1.5	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Tungsten	1	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Tungsten	0.99	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Tungsten	1.1	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Tungsten	0.62	UJ	mg/kg		2.5	0.0175	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Tungsten	1.5	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Tungsten	1.4	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Tungsten	0.78	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Tungsten	1.1	UJ	mg/kg		2.7	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Tungsten	2.1	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Tungsten	0.71	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Tungsten	0.7	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Tungsten	0.74	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Tungsten	1.2	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Tungsten	1	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Tungsten	1.1	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Tungsten	1	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Tungsten	0.84	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Tungsten	0.93	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Tungsten	1.5	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Tungsten	1.9	UJ	mg/kg		2.7	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Tungsten	1.5	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Tungsten	0.9	U	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Tungsten	0.65	U	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Tungsten	0.94	U	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Tungsten	0.97	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Tungsten	2	UJ	mg/kg		2.6	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Tungsten	1.3	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Tungsten	0.93	UJ	mg/kg		2.5	0.0175	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Tungsten	0.75	UJ	mg/kg		2.7	0.0175	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Tungsten	0.87	UJ	mg/kg		2.6	0.0175	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Uranium (total)	1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Uranium (total)	0.86	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Uranium (total)	1.3		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Uranium (total)	0.85	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Uranium (total)	1.1		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Uranium (total)	0.74	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Uranium (total)	0.93	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Uranium (total)	0.81	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Uranium (total)	1.1		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Uranium (total)	0.64	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Uranium (total)	0.76	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Uranium (total)	0.68	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Uranium (total)	0.96	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Uranium (total)	0.84	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Uranium (total)	0.83	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Uranium (total)	1.1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Uranium (total)	0.73	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Uranium (total)	0.84	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Uranium (total)	0.97	J	mg/kg		1	0.038	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Uranium (total)	0.99	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Uranium (total)	0.9	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Uranium (total)	0.8	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Uranium (total)	0.8	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Uranium (total)	1.1		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Uranium (total)	0.86	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Uranium (total)	0.78	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Uranium (total)	1.7		mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Uranium (total)	0.89	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Uranium (total)	1.1		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Uranium (total)	0.94	J	mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Uranium (total)	0.94	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Uranium (total)	1.1		mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Uranium (total)	1.1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Uranium (total)	0.62	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Uranium (total)	1	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Uranium (total)	0.92	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Uranium (total)	1.2		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Uranium (total)	1	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Uranium (total)	0.73	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Uranium (total)	0.8	J	mg/kg		1.3	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Uranium (total)	0.95	J	mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Uranium (total)	0.89	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Uranium (total)	1.1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Uranium (total)	1	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Uranium (total)	0.89	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Uranium (total)	1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Uranium (total)	0.82	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Uranium (total)	0.72	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Uranium (total)	0.84	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Uranium (total)	0.81	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Uranium (total)	1.2		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Uranium (total)	1.4		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Uranium (total)	1.1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Uranium (total)	1.3		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Uranium (total)	1.2		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Uranium (total)	1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Uranium (total)	1.3		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Uranium (total)	1.3		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Uranium (total)	1.3		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Uranium (total)	1.2		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Uranium (total)	0.93	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Uranium (total)	0.76	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Uranium (total)	0.91	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Uranium (total)	0.93	J	mg/kg		1	0.038	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Uranium (total)	0.85	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Uranium (total)	1.1		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Uranium (total)	1.2		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Uranium (total)	1	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Uranium (total)	1		mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Uranium (total)	1.3		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Uranium (total)	0.82	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Uranium (total)	1.2		mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Uranium (total)	0.95	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Uranium (total)	0.92	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Uranium (total)	1	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Uranium (total)	1.2		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Uranium (total)	1.1		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Uranium (total)	0.9	J	mg/kg		1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Uranium (total)	1.1		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Uranium (total)	0.87	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Uranium (total)	1.1		mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Uranium (total)	0.93	J	mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Uranium (total)	0.97	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Uranium (total)	1.1		mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Uranium (total)	1.3		mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Uranium (total)	0.79	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Uranium (total)	1	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Uranium (total)	2.7		mg/kg		1.1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Uranium (total)	0.71	J	mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Uranium (total)	0.82	J	mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Uranium (total)	1.7		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Uranium (total)	1.8		mg/kg		1	0.038	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Uranium (total)	1.1		mg/kg		1.1	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Uranium (total)	2.3		mg/kg		1	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Uranium-234	0.63	U	pCi/g	0.2	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Uranium-234	2.44		pCi/g	0.45	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Uranium-234	1.73		pCi/g	0.33	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Uranium-234	0.72	U	pCi/g	0.19	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Uranium-234	1.73		pCi/g	0.34	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Uranium-234	1.95		pCi/g	0.36	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Uranium-234	0.82	U	pCi/g	0.25	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Uranium-234	1.59		pCi/g	0.33	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Uranium-234	1.92		pCi/g	0.35	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Uranium-234	1.22	J+	pCi/g	0.3	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Uranium-234	0.92	U	pCi/g	0.23	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Uranium-234	1.16	U	pCi/g	0.28	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Uranium-234	1	U	pCi/g	0.26	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Uranium-234	1.01	U	pCi/g	0.25	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Uranium-234	1.03	U	pCi/g	0.26	0.09	0.09	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Uranium-234	1.22	J+	pCi/g	0.33	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Uranium-234	1.14	U	pCi/g	0.31	0.15	0.15	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Uranium-234	1.17	U	pCi/g	0.28	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Uranium-234	0.85	U	pCi/g	0.22	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Uranium-234	1.16	U	pCi/g	0.26	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Uranium-234	1.56		pCi/g	0.32	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Uranium-234	1.05	U	pCi/g	0.25	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Uranium-234	1.23	J+	pCi/g	0.28	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Uranium-234	1.84		pCi/g	0.34	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Uranium-234	0.84	U	pCi/g	0.23	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Uranium-234	1.07	U	pCi/g	0.26	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Uranium-234	2.3		pCi/g	0.41	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Uranium-234	0.89	U	pCi/g	0.22	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Uranium-234	0.9	U	pCi/g	0.22	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Uranium-234	1.07	U	pCi/g	0.28	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Uranium-234	0.76	U	pCi/g	0.26	0.16	0.16	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Uranium-234	0.76	U	pCi/g	0.21	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Uranium-234	0.85	U	pCi/g	0.22	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Uranium-234	0.85	U	pCi/g	0.22	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Uranium-234	0.68	U	pCi/g	0.21	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Uranium-234	0.76	U	pCi/g	0.21	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Uranium-234	0.86	U	pCi/g	0.23	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Uranium-234	0.9	U	pCi/g	0.23	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Uranium-234	0.83	U	pCi/g	0.23	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Uranium-234	0.83	U	pCi/g	0.2	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Uranium-234	1.02	U	pCi/g	0.23	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Uranium-234	0.96	U	pCi/g	0.21	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Uranium-234	0.88	U	pCi/g	0.23	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Uranium-234	0.83	U	pCi/g	0.22	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Uranium-234	0.95	U	pCi/g	0.24	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Uranium-234	1.23	J+	pCi/g	0.3	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Uranium-234	1.16	U	pCi/g	0.29	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Uranium-234	1	U	pCi/g	0.25	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Uranium-234	1.14	U	pCi/g	0.27	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Uranium-234	1.04	U	pCi/g	0.24	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Uranium-234	0.96	J	pCi/g	0.24	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Uranium-234	1.07		pCi/g	0.25	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Uranium-234	1.84		pCi/g	0.38	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Uranium-234	1.23		pCi/g	0.27	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Uranium-234	1.21		pCi/g	0.28	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Uranium-234	1.37		pCi/g	0.29	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Uranium-234	1.13		pCi/g	0.3	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Uranium-234	1.24		pCi/g	0.27	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Uranium-234	1.21		pCi/g	0.27	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Uranium-234	1.02	U	pCi/g	0.25	0.11	0.11	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Uranium-234	1.27		pCi/g	0.29	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Uranium-234	1.94		pCi/g	0.35	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Uranium-234	0.96	J	pCi/g	0.23	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Uranium-234	1.15		pCi/g	0.27	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Uranium-234	1.9		pCi/g	0.4	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Uranium-234	1.02	U	pCi/g	0.24	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Uranium-234	1.99		pCi/g	0.34	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Uranium-234	2.06		pCi/g	0.34	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Uranium-234	0.85	J	pCi/g	0.2	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Uranium-234	0.94	J	pCi/g	0.22	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Uranium-234	1.24		pCi/g	0.27	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Uranium-234	0.7	J	pCi/g	0.22	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Uranium-234	1.08		pCi/g	0.26	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Uranium-234	1.48		pCi/g	0.37	0.17	0.17	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Uranium-234	0.9	J	pCi/g	0.22	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Uranium-234	1.17		pCi/g	0.29	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Uranium-234	1.13		pCi/g	0.3	0.14	0.14	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Uranium-234	0.98	U	pCi/g	0.28	0.15	0.15	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Uranium-234	0.92	U	pCi/g	0.24	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Uranium-234	0.95	U	pCi/g	0.26	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Uranium-234	0.97	U	pCi/g	0.24	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Uranium-234	0.94	U	pCi/g	0.23	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Uranium-234	1.25	J+	pCi/g	0.28	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Uranium-234	0.79	U	pCi/g	0.2	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Uranium-234	0.76	U	pCi/g	0.21	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Uranium-234	1.31		pCi/g	0.28	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Uranium-234	0.98	U	pCi/g	0.24	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Uranium-234	1.05	U	pCi/g	0.25	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Uranium-234	2.66		pCi/g	0.46	0.13	0.13	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Uranium-234	0.78	U	pCi/g	0.21	0.12	0.12	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Uranium-234	1.45		pCi/g	0.3	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Uranium-234	2.84		pCi/g	0.48	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Uranium-234	1.09	U	pCi/g	0.25	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Uranium-234	1.2	J+	pCi/g	0.26	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Uranium-234	2.73		pCi/g	0.44	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Uranium-235	0.011	U	pCi/g	0.058	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Uranium-235	0.12	J	pCi/g	0.1	0.05	0.05	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Uranium-235	0.043	J	pCi/g	0.058	0.039	0.039	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Uranium-235	0.042	J	pCi/g	0.056	0.037	0.037	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Uranium-235	0.04	U	pCi/g	0.068	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Uranium-235	0.06	U	pCi/g	0.073	0.092	0.092	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Uranium-235	0.064	U	pCi/g	0.086	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Uranium-235	0.058	U	pCi/g	0.079	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Uranium-235	0.17	J	pCi/g	0.11	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Uranium-235	0.076	J	pCi/g	0.085	0.051	0.051	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Uranium-235	0.014	U	pCi/g	0.041	0.039	0.039	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Uranium-235	0	U	pCi/g	0	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Uranium-235	0.011	U	pCi/g	0.059	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Uranium-235	0.086	U	pCi/g	0.084	0.096	0.096	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Uranium-235	0.031	U	pCi/g	0.051	0.074	0.074	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Uranium-235	0	U	pCi/g	0	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Uranium-235	0.067	U	pCi/g	0.091	0.12	0.12	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Uranium-235	0.001	U	pCi/g	0.044	0.097	0.097	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Uranium-235	0.059	U	pCi/g	0.07	0.089	0.089	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Uranium-235	0.045	U	pCi/g	0.061	0.081	0.081	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Uranium-235	0.077	J	pCi/g	0.076	0.042	0.042	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Uranium-235	0.03	U	pCi/g	0.052	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Uranium-235	0.13	J	pCi/g	0.1	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Uranium-235	0.099	J	pCi/g	0.088	0.094	0.094	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Uranium-235	0.098	J	pCi/g	0.085	0.072	0.072	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Uranium-235	0.0009	U	pCi/g	0.041	0.091	0.091	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Uranium-235	0.13	J	pCi/g	0.1	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Uranium-235	0.059	J	pCi/g	0.067	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Uranium-235	0.043	J	pCi/g	0.057	0.038	0.038	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Uranium-235	0.076	U	pCi/g	0.091	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Uranium-235	0.036	U	pCi/g	0.088	0.14	0.14	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Uranium-235	0.001	U	pCi/g	0.042	0.094	0.094	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Uranium-235	0.087	J	pCi/g	0.078	0.081	0.081	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Uranium-235	0.061	J	pCi/g	0.068	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Uranium-235	0.032	U	pCi/g	0.061	0.095	0.095	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Uranium-235	0.084	U	pCi/g	0.085	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Uranium-235	0.101	J	pCi/g	0.089	0.096	0.096	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Uranium-235	0.048	U	pCi/g	0.064	0.085	0.085	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Uranium-235	0.083	J	pCi/g	0.082	0.045	0.045	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Uranium-235	0.049	U	pCi/g	0.053	0.055	0.055	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Uranium-235	0.053	J	pCi/g	0.06	0.036	0.036	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Uranium-235	0.037	J	pCi/g	0.049	0.033	0.033	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Uranium-235	0.124	J	pCi/g	0.094	0.042	0.042	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Uranium-235	0.073	U	pCi/g	0.081	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Uranium-235	0.062	U	pCi/g	0.067	0.069	0.069	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Uranium-235	0.102	U	pCi/g	0.095	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Uranium-235	0.054	J	pCi/g	0.072	0.048	0.048	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Uranium-235	0.08	U	pCi/g	0.084	0.098	0.098	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Uranium-235	0.027	U	pCi/g	0.066	0.11	0.11	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Uranium-235	0.087	J	pCi/g	0.078	0.081	0.081	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Uranium-235	0.038	U	pCi/g	0.055	0.076	0.076	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Uranium-235	0.034	U	pCi/g	0.059	0.087	0.087	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Uranium-235	0.052	U	pCi/g	0.07	0.093	0.093	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Uranium-235	0.09	J	pCi/g	0.073	0.035	0.035	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Uranium-235	0.055	J	pCi/g	0.062	0.038	0.038	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Uranium-235	0.092	J	pCi/g	0.075	0.036	0.036	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Uranium-235	0	U	pCi/g	0	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Uranium-235	0.048	U	pCi/g	0.062	0.081	0.081	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Uranium-235	0.107	J	pCi/g	0.079	0.058	0.058	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Uranium-235	0.059	U	pCi/g	0.076	0.099	0.099	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Uranium-235	0.093	J	pCi/g	0.08	0.068	0.068	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Uranium-235	0.126	J	pCi/g	0.089	0.038	0.038	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Uranium-235	0.068	U	pCi/g	0.075	0.091	0.091	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Uranium-235	0.047	U	pCi/g	0.069	0.095	0.095	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Uranium-235	0.058	U	pCi/g	0.084	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Uranium-235	0.066	U	pCi/g	0.066	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Uranium-235	0.089	J	pCi/g	0.073	0.066	0.066	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Uranium-235	0.21	J	pCi/g	0.11	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Uranium-235	0.054	J	pCi/g	0.053	0.029	0.029	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Uranium-235	0.047	J	pCi/g	0.053	0.032	0.032	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Uranium-235	0.047	U	pCi/g	0.055	0.064	0.064	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Uranium-235	0.03	U	pCi/g	0.059	0.091	0.091	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Uranium-235	0.043	U	pCi/g	0.062	0.086	0.086	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Uranium-235	0.077	U	pCi/g	0.093	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Uranium-235	0.097	J	pCi/g	0.077	0.075	0.075	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Uranium-235	0.081	J	pCi/g	0.08	0.044	0.044	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Uranium-235	0.14	J	pCi/g	0.11	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Uranium-235	0.11	U	pCi/g	0.11	0.13	0.13	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Uranium-235	0.12	J	pCi/g	0.1	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Uranium-235	0.087	J	pCi/g	0.083	0.077	0.077	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Uranium-235	0.101	J	pCi/g	0.08	0.063	0.063	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Uranium-235	0.057	U	pCi/g	0.069	0.087	0.087	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Uranium-235	0.016	U	pCi/g	0.052	0.094	0.094	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Uranium-235	0.054	J	pCi/g	0.06	0.036	0.036	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Uranium-235	0.052	U	pCi/g	0.071	0.096	0.096	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Uranium-235	0.041	U	pCi/g	0.065	0.093	0.093	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Uranium-235	0.13	J	pCi/g	0.1	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Uranium-235	0.027	U	pCi/g	0.045	0.064	0.064	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Uranium-235	0.1	U	pCi/g	0.093	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Uranium-235	0.088	U	pCi/g	0.082	0.089	0.089	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Uranium-235	0.09	U	pCi/g	0.084	0.091	0.091	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Uranium-235	0.06	U	pCi/g	0.082	0.11	0.11	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Uranium-235	0.06	J	pCi/g	0.067	0.041	0.041	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Uranium-235	0.058	J	pCi/g	0.065	0.039	0.039	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Uranium-235	0.18	J	pCi/g	0.11	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Uranium-238	0.77	J	pCi/g	0.22	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Uranium-238	1.43		pCi/g	0.32	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Uranium-238	1.38		pCi/g	0.29	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Uranium-238	0.78	J	pCi/g	0.2	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Uranium-238	1.56		pCi/g	0.31	0.08	0.08	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Uranium-238	1.53		pCi/g	0.31	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Uranium-238	0.88	J	pCi/g	0.26	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Uranium-238	1.32		pCi/g	0.29	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Uranium-238	1.75		pCi/g	0.33	0.05	0.05	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Uranium-238	1.38		pCi/g	0.32	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Uranium-238	1.02		pCi/g	0.24	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Uranium-238	1.31		pCi/g	0.3	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Uranium-238	1.08		pCi/g	0.26	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Uranium-238	0.99	J	pCi/g	0.24	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Uranium-238	1.07		pCi/g	0.27	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Uranium-238	1.14		pCi/g	0.31	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Uranium-238	1.07		pCi/g	0.29	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Uranium-238	1.1		pCi/g	0.26	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Uranium-238	0.74	J	pCi/g	0.2	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Uranium-238	1.23		pCi/g	0.26	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Uranium-238	1.39		pCi/g	0.3	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Uranium-238	1.16		pCi/g	0.26	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Uranium-238	1.17		pCi/g	0.27	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Uranium-238	1.46		pCi/g	0.3	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Uranium-238	0.83	J	pCi/g	0.23	0.04	0.04	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Uranium-238	0.98	J	pCi/g	0.24	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Uranium-238	1.95		pCi/g	0.37	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Uranium-238	0.77	J	pCi/g	0.21	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Uranium-238	1.14		pCi/g	0.25	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Uranium-238	1.05		pCi/g	0.28	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Uranium-238	1.02		pCi/g	0.29	0.11	0.11	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Uranium-238	0.82	J	pCi/g	0.22	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Uranium-238	0.85	J	pCi/g	0.21	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Uranium-238	0.84	J	pCi/g	0.22	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Uranium-238	0.81	J	pCi/g	0.22	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Uranium-238	1.02		pCi/g	0.24	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Uranium-238	1.06		pCi/g	0.25	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Uranium-238	1		pCi/g	0.24	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Uranium-238	1.16		pCi/g	0.27	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Uranium-238	0.89	J	pCi/g	0.21	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Uranium-238	1.02		pCi/g	0.23	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Uranium-238	0.94	J	pCi/g	0.21	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Uranium-238	1.08		pCi/g	0.26	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Uranium-238	0.94	J	pCi/g	0.24	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Uranium-238	0.97	J	pCi/g	0.24	0.04	0.04	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Uranium-238	1.36		pCi/g	0.31	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Uranium-238	1.04		pCi/g	0.27	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Uranium-238	0.96	J	pCi/g	0.24	0.07	0.07	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Uranium-238	1.51		pCi/g	0.32	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Uranium-238	0.89	J	pCi/g	0.22	0.06	0.06	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Uranium-238	0.92	J	pCi/g	0.22	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Uranium-238	0.91	J	pCi/g	0.23	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Uranium-238	1.59		pCi/g	0.35	0.08	0.08	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Uranium-238	0.94	J	pCi/g	0.23	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Uranium-238	1.09		pCi/g	0.26	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Uranium-238	1.47		pCi/g	0.3	0.06	0.06	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Uranium-238	0.91	J	pCi/g	0.26	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Uranium-238	1.23		pCi/g	0.27	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Uranium-238	1.59		pCi/g	0.32	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Uranium-238	0.92	J	pCi/g	0.23	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Uranium-238	1.66		pCi/g	0.33	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Uranium-238	1.86		pCi/g	0.34	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Uranium-238	0.89	J	pCi/g	0.22	0.09	0.09	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Uranium-238	1.16		pCi/g	0.27	0.09	0.09	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Uranium-238	2.01		pCi/g	0.41	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Uranium-238	1.17		pCi/g	0.26	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Uranium-238	1.95		pCi/g	0.34	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Uranium-238	2.37		pCi/g	0.37	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Uranium-238	0.86	J	pCi/g	0.2	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Uranium-238	1.17		pCi/g	0.25	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Uranium-238	1.24		pCi/g	0.27	0.03	0.03	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Uranium-238	1.14		pCi/g	0.28	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Uranium-238	1.03		pCi/g	0.25	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Uranium-238	1.42		pCi/g	0.36	0.12	0.12	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Uranium-238	0.93	J	pCi/g	0.22	0.06	0.06	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Uranium-238	0.95	J	pCi/g	0.26	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Uranium-238	1.01		pCi/g	0.27	0.1	0.1	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Uranium-238	0.65	J	pCi/g	0.22	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Uranium-238	1.01		pCi/g	0.25	0.1	0.1	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Uranium-238	1.36		pCi/g	0.32	0.04	0.04	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Uranium-238	1.05		pCi/g	0.25	0.03	0.03	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Uranium-238	0.93	J	pCi/g	0.23	0.08	0.08	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Uranium-238	1.2		pCi/g	0.27	0.07	0.07	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Uranium-238	0.69	J	pCi/g	0.18	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Uranium-238	0.87	J	pCi/g	0.22	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Uranium-238	0.94	J	pCi/g	0.23	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Uranium-238	1.15		pCi/g	0.27	0.1	0.1	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Uranium-238	1.02		pCi/g	0.24	0.03	0.03	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Uranium-238	2.02		pCi/g	0.38	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Uranium-238	1.06		pCi/g	0.25	0.08	0.08	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Uranium-238	1.27		pCi/g	0.28	0.07	0.07	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Uranium-238	2.28		pCi/g	0.41	0.09	0.09	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Uranium-238	1.03		pCi/g	0.24	0.05	0.05	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Uranium-238	0.95	J	pCi/g	0.23	0.06	0.06	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Uranium-238	2.21		pCi/g	0.38	0.07	0.07	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Vanadium	44.9	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Vanadium	25.5	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Vanadium	30.5	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Vanadium	34.1	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Vanadium	33.5	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Vanadium	20.2		mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Vanadium	29.6		mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Vanadium	23.9		mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Vanadium	22.9		mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Vanadium	23.6	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Vanadium	30.8	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Vanadium	34.6	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Vanadium	36	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Vanadium	39.9	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Vanadium	33.9	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Vanadium	34.2	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Vanadium	30.5	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Vanadium	36.6	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Vanadium	40.6	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Vanadium	36.2	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Vanadium	28.1	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Vanadium	34.5	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Vanadium	34.1	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Vanadium	28.3	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Vanadium	35.5	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Vanadium	31.1	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Vanadium	28.8	J	mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Vanadium	54.2	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Vanadium	59.1	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Vanadium	49.2	J	mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Vanadium	55.3	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Vanadium	50	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Vanadium	57.5	J	mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Vanadium	57.3	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Vanadium	43.9	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Vanadium	49.2	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Vanadium	47.1	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Vanadium	38.4	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Vanadium	42.5	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Vanadium	35		mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Vanadium	28.6		mg/kg		1.3	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Vanadium	35.9		mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Vanadium	33.5	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Vanadium	41.2		mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Vanadium	29.2	J	mg/kg		1.1	0.5535	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Vanadium	36.9	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Vanadium	35.6	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Vanadium	32.5	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Vanadium	21.8	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Vanadium	38.9	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Vanadium	31.6	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Vanadium	42.9	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Vanadium	45.6	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Vanadium	42.1	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Vanadium	48	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Vanadium	47.3	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Vanadium	40.4	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Vanadium	47.6	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Vanadium	46.2	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Vanadium	41.9	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Vanadium	32.6	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Vanadium	44.9	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Vanadium	36.1	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Vanadium	41.1	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Vanadium	45.1	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Vanadium	36.7	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Vanadium	33.8	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Vanadium	51.8	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Vanadium	46.8	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Vanadium	43.6	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Vanadium	40.5	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Vanadium	34.7	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Vanadium	41.6	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Vanadium	33.4	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Vanadium	47	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Vanadium	37	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Vanadium	39.4	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Vanadium	43.4	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Vanadium	42.7	J	mg/kg		1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Vanadium	44.4	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Vanadium	33.9	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Vanadium	50.3	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Vanadium	38.8	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Vanadium	46.1	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Vanadium	48	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Vanadium	56	J	mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Vanadium	43.9		mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Vanadium	33.5		mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Vanadium	48.6		mg/kg		1.1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Vanadium	46.8	J	mg/kg		1	0.5535	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Vanadium	38	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Vanadium	35.6	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Vanadium	32.5	J	mg/kg		1	0.5535	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Vanadium	36.4	J	mg/kg		1.1	0.5535	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Vanadium	40.3	J	mg/kg		1	0.5535	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Zinc	48		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Zinc	20.7		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Zinc	19.7		mg/kg		2	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Zinc	48.5		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Zinc	25.4		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Zinc	15.4		mg/kg		2	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Zinc	42.7		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Zinc	17.6		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Zinc	17.1		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Zinc	31.7		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Zinc	25.9		mg/kg		2	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Zinc	26.3		mg/kg		2	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Zinc	42.3		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Zinc	26.9		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Zinc	24.4		mg/kg		2	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Zinc	43.1		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Zinc	26.9		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Zinc	28.5		mg/kg		2	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Zinc	38.9		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Zinc	25.5		mg/kg		2	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Zinc	22.3		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Zinc	35.8		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Zinc	25.8		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Zinc	20.4		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Zinc	48.2		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Zinc	24.5		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Zinc	21.9		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Zinc	42.2		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Zinc	43.8		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Zinc	43		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Zinc	43.1		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Zinc	42.8		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Zinc	43.4		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Zinc	38.5		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Zinc	49.1		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Zinc	43.2		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Zinc	41.6		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Zinc	29.3		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Zinc	40.2		mg/kg		2.2	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Zinc	39		mg/kg		2	0.2207	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Zinc	35.5		mg/kg		2.5	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Zinc	51.7		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Zinc	33.7		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Zinc	37.7		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Zinc	33.1		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Zinc	34.8		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Zinc	30.4		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Zinc	34.4		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Zinc	32.2		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Zinc	46		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Zinc	51.6	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Zinc	48.6	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Zinc	39.6	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Zinc	51.2	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Zinc	41.6	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Zinc	41.9	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Zinc	52	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Zinc	39.7	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Zinc	40	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Zinc	121		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Zinc	31.2		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Zinc	38.2		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Zinc	52.1	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Zinc	51.3		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Zinc	38.9		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Zinc	55.2		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Zinc	39.1		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Zinc	40.3		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Zinc	41.6	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Zinc	36	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Zinc	34.3	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Zinc	32.5	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Zinc	35.6	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Zinc	34.1	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Zinc	35.7	J+	mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Zinc	35.8	J+	mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Zinc	36.9	J+	mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Zinc	45.9		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Zinc	37.9		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Zinc	37.4		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Zinc	38.9		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Zinc	40.5		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Zinc	27.8		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Zinc	63.6		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Zinc	45		mg/kg		2.1	0.2207	5

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Zinc	34.9		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Zinc	60.4		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Zinc	28.5		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Zinc	30.8		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Zinc	44.4		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Zinc	34.1		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Zinc	22.8		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Zinc	41.9		mg/kg		2	0.2207	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Zinc	31.1		mg/kg		2.1	0.2207	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Zinc	29.4		mg/kg		2.1	0.2207	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-0-0.5	BRC-BKG-01A	Zirconium	121	J-	mg/kg		50.8	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-4-6	BRC-BKG-01A	Zirconium	105	J-	mg/kg		51.6	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01A-9-11	BRC-BKG-01A	Zirconium	106	J-	mg/kg		51.1	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-0-0.5	BRC-BKG-01B	Zirconium	112	J-	mg/kg		50.3	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-4-6	BRC-BKG-01B	Zirconium	117	J-	mg/kg		51.4	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01B-9-11	BRC-BKG-01B	Zirconium	91.9		mg/kg		51.1	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-0-0.5	BRC-BKG-01C	Zirconium	103		mg/kg		50.7	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-4-6	BRC-BKG-01C	Zirconium	120		mg/kg		51.6	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-01C-9-11	BRC-BKG-01C	Zirconium	93.8		mg/kg		51.6	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-0-0.5	BRC-BKG-02A	Zirconium	99.3	J-	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-4-6	BRC-BKG-02A	Zirconium	125	J-	mg/kg		51.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02A-9-11	BRC-BKG-02A	Zirconium	125	J-	mg/kg		50.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-0-0.5	BRC-BKG-02B	Zirconium	130	J-	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-4-6	BRC-BKG-02B	Zirconium	138	J-	mg/kg		51.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02B-9-11	BRC-BKG-02B	Zirconium	126	J-	mg/kg		50.9	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-0-0.5	BRC-BKG-02C	Zirconium	134	J-	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-4-6	BRC-BKG-02C	Zirconium	131		mg/kg		51.6	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-02C-9-11	BRC-BKG-02C	Zirconium	133		mg/kg		51	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-0-0.5	BRC-BKG-03A	Zirconium	111		mg/kg		50.3	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-3-7	BRC-BKG-03A	Zirconium	112		mg/kg		51.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03A-9-11	BRC-BKG-03A	Zirconium	112		mg/kg		51.1	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-0-0.5	BRC-BKG-03B	Zirconium	123		mg/kg		50.3	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-4-6	BRC-BKG-03B	Zirconium	108		mg/kg		52.5	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03B-9-11	BRC-BKG-03B	Zirconium	102		mg/kg		51.7	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-0-0.5	BRC-BKG-03C	Zirconium	133		mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-4-6	BRC-BKG-03C	Zirconium	124		mg/kg		51.9	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-03C-9-11	BRC-BKG-03C	Zirconium	101		mg/kg		52.3	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-0-0.5	BRC-BKG-04A	Zirconium	146	J	mg/kg		10.2	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-4-6	BRC-BKG-04A	Zirconium	175	J	mg/kg		10.4	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04A-9-11	BRC-BKG-04A	Zirconium	164	J	mg/kg		10.7	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-0-0.5	BRC-BKG-04B	Zirconium	168	J	mg/kg		10.2	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-4-6	BRC-BKG-04B	Zirconium	167	J	mg/kg		10.4	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04B-9-11	BRC-BKG-04B	Zirconium	177	J	mg/kg		10.5	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-0-0.5	BRC-BKG-04C	Zirconium	176	J	mg/kg		10.2	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C1-0-0.5	BRC-BKG-04C	Zirconium	119	J	mg/kg		10.1	0.0874	0

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-4-6	BRC-BKG-04C	Zirconium	178	J	mg/kg		10.5	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-04C-9-11	BRC-BKG-04C	Zirconium	165	J	mg/kg		10.4	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-0-0.5	BRC-BKG-05A	Zirconium	167	J	mg/kg		10.2	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05A-4-6	BRC-BKG-05A	Zirconium	179	J	mg/kg		10.8	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-0-0.5	BRC-BKG-05A	Zirconium	127		mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-4-6	BRC-BKG-05A	Zirconium	144		mg/kg		63.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05AR-9-11	BRC-BKG-05A	Zirconium	151		mg/kg		52.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05B-0-0.5	BRC-BKG-05B	Zirconium	154	J	mg/kg		10.2	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-0-0.5	BRC-BKG-05B	Zirconium	133		mg/kg		50.7	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-4-6	BRC-BKG-05B	Zirconium	135	J	mg/kg		52.5	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05BR-9-11	BRC-BKG-05B	Zirconium	129	J	mg/kg		51.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-05C-0-0.5	BRC-BKG-05C	Zirconium	158	J	mg/kg		10.1	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-0-0.5	BRC-BKG-05C	Zirconium	140	J	mg/kg		50.5	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-4-6	BRC-BKG-05C	Zirconium	152	J	mg/kg		53.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-05CR-9-11	BRC-BKG-05C	Zirconium	152	J	mg/kg		51.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-0-0.5	BRC-BKG-06A	Zirconium	117	J	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-4-6	BRC-BKG-06A	Zirconium	139	J	mg/kg		51.2	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06A-9-11	BRC-BKG-06A	Zirconium	119	J	mg/kg		51.3	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-0-0.5	BRC-BKG-06B	Zirconium	120	J	mg/kg		50.5	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-4-6	BRC-BKG-06B	Zirconium	135	J	mg/kg		51.8	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06B-9-11	BRC-BKG-06B	Zirconium	123	J	mg/kg		51.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-0-0.5	BRC-BKG-06C	Zirconium	123	J	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-4-6	BRC-BKG-06C	Zirconium	134	J	mg/kg		52	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-06C-8-12	BRC-BKG-06C	Zirconium	124	J	mg/kg		51.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-0-0.5	BRC-BKG-07A	Zirconium	118	J-	mg/kg		50.7	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-4-6	BRC-BKG-07A	Zirconium	108	J-	mg/kg		51.9	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07A-9-11	BRC-BKG-07A	Zirconium	94.9	J-	mg/kg		52	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-0-0.5	BRC-BKG-07B	Zirconium	112	J	mg/kg		50.5	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-4-6	BRC-BKG-07B	Zirconium	132	J-	mg/kg		51.4	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07B-9-11	BRC-BKG-07B	Zirconium	103	J-	mg/kg		52	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-0-0.5	BRC-BKG-07C	Zirconium	120	J-	mg/kg		50.5	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-4-6	BRC-BKG-07C	Zirconium	113	J-	mg/kg		51.9	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-07C-9-11	BRC-BKG-07C	Zirconium	107	J-	mg/kg		51.7	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-0-0.5	BRC-BKG-08A	Zirconium	141	J	mg/kg		50.4	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-4-6	BRC-BKG-08A	Zirconium	148	J	mg/kg		51.7	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08A-9-11	BRC-BKG-08A	Zirconium	145	J	mg/kg		51.6	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-0-0.5	BRC-BKG-08B	Zirconium	132	J	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-4-6	BRC-BKG-08B	Zirconium	157	J	mg/kg		53.1	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08B-9-11	BRC-BKG-08B	Zirconium	158	J	mg/kg		52.2	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-0-0.5	BRC-BKG-08C	Zirconium	132	J	mg/kg		50.6	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-4-6	BRC-BKG-08C	Zirconium	149	J	mg/kg		52.2	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-08C-9-11	BRC-BKG-08C	Zirconium	142	J	mg/kg		51.6	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-0-0.5	BRC-BKG-09A	Zirconium	166	J	mg/kg		10.1	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-4-6	BRC-BKG-09A	Zirconium	138	J	mg/kg		10.4	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09A-9-11	BRC-BKG-09A	Zirconium	149	J	mg/kg		10.5	0.0874	10

**TABLE D-1. Background Data Used for the OU-2 Refined SLERA
Nevada Environmental Response Trust Site
Henderson, Nevada**

Data Set	Origin	Sample ID	Location ID	Chemical Name	Result	Interpreted Qualifier	Unit	Rad Error	PQL	SQL	Depth (ft bgs)
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-0-0.5	BRC-BKG-09B	Zirconium	117	J	mg/kg		10.1	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-4-6	BRC-BKG-09B	Zirconium	146	J	mg/kg		10.5	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09B-9-11	BRC-BKG-09B	Zirconium	134	J	mg/kg		10.3	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-0-0.5	BRC-BKG-09C	Zirconium	145	J	mg/kg		10.1	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-4-6	BRC-BKG-09C	Zirconium	151	J	mg/kg		10.6	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-09C-9-11	BRC-BKG-09C	Zirconium	171	J	mg/kg		10.5	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-0-0.5	BRC-BKG-11A	Zirconium	119		mg/kg		50.4	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-4-6	BRC-BKG-11A	Zirconium	127		mg/kg		52.7	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11A-9-11	BRC-BKG-11A	Zirconium	112		mg/kg		52.8	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-0-0.5	BRC-BKG-11B	Zirconium	118	J	mg/kg		50.5	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-4-6	BRC-BKG-11B	Zirconium	116	J	mg/kg		52.6	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11B-9-11	BRC-BKG-11B	Zirconium	86.1	J	mg/kg		52.1	0.0874	10
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-0-0.5	BRC-BKG-11C	Zirconium	109	J	mg/kg		50.4	0.0874	0
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-4-6	BRC-BKG-11C	Zirconium	117	J	mg/kg		52.9	0.0874	5
BRC/TIMET	MCCULLOUGH	BRC-BKG-11C-9-11	BRC-BKG-11C	Zirconium	103	J	mg/kg		51.9	0.0874	10

Notes:

Some concentration values in the table are negative. Negative values may occur since sample counts are compared to background counts, and background counts reflect naturally occurring radionuclides and cosmic radiation that are detected by laboratory instrumentation. Samples that are not different from background may have a negative value when background radioactivity is subtracted.

µg/kg = Microgram per kilogram

ft bgs = Feet below ground surface

MDL = Method detection level

mg/kg = Milligram per kilogram

NERT = Nevada Environmental Response Trust

pCi/g = Average picocuries per gram

PQL = Practical quantification level

OU-2 = Operable Unit 2

SLERA = Screening level ecological risk assessment

Lab Qualifiers:

B = Indicates that the analyte was found in the associated blank, as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

B J = Analyte detected in the associated method blank, result is estimated because is below the reporting limit for the analytical method

J = Indicates an estimated value.

J- = Indicates an estimated value with a negative bias.

J+ = Indicates an estimated value with a positive bias.

U = The analyte was not detected

UJ = The analyte was analyzed for and was not present above the level of the associated value.

UJ- = The analyte was analyzed for and was not present above the level of the associated value with a negative bias.

APPENDIX D-2 BACKGROUND STATISTICAL EVALUATION

Figure D-2a Background vs. OU-2 Boxplots for Metals

Figure D-2b Background vs. OU-2 Boxplots for Radionuclides

Figure D-2c Normal and Lognormal Q–Q Plots for Metals

Figure D-2d Normal and Lognormal Q–Q Plots for Radionuclides

Figure D-2e Background vs. OU-2 Boxplots for Inorganics

Figure D-2f Normal and Lognormal Q–Q Plots for Inorganics

Table D-2a Summary Statistics for Metals in Background (BRC/TIMET Regional) Soils and OU-2 Soils

Table D-2b Background Comparisons for Metals in OU-2 Soils

Table D-2c Summary Statistics for Radionuclides in Background (BRC/TIMET Regional) Soils and OU-2 Soils

Table D-2d Background Comparisons for Radionuclides in OU-2 Soils

Table D-2e Summary Statistics for Inorganics in Background (BRC/TIMET Regional) Soils and OU-2 Soils

Table D-2f Background Comparisons for Inorganics in OU-2 Soils

Table D-2g Equivalence Test for Secular Equilibrium of Uranium Decay Series (U-238 Chain)

Table D-2h Equivalence Test for Secular Equilibrium of Thorium Decay Series (Th-232 Chain)

Table D-2i Correlation Matrices for the Uranium Decay Series and the Thorium Decay Series

Figure D-2a. Background vs. OU-2 Boxplots for Metals
Aluminum

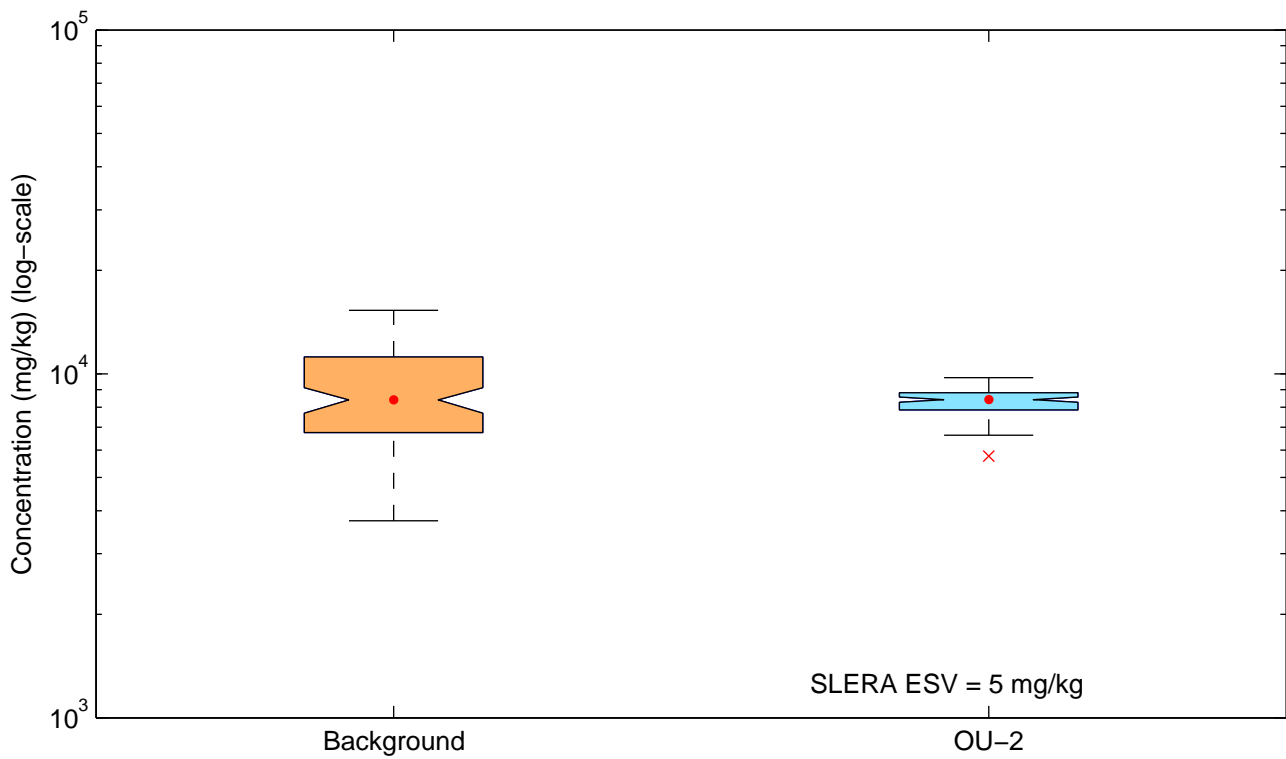
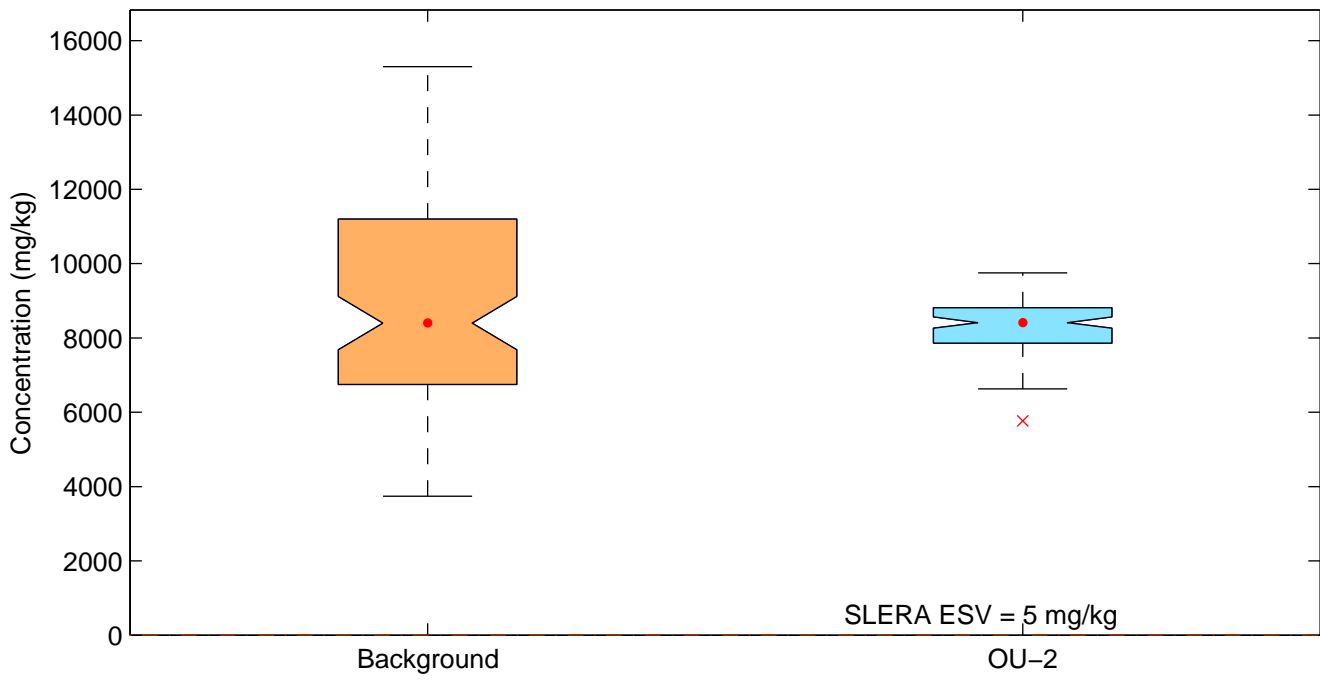


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Antimony

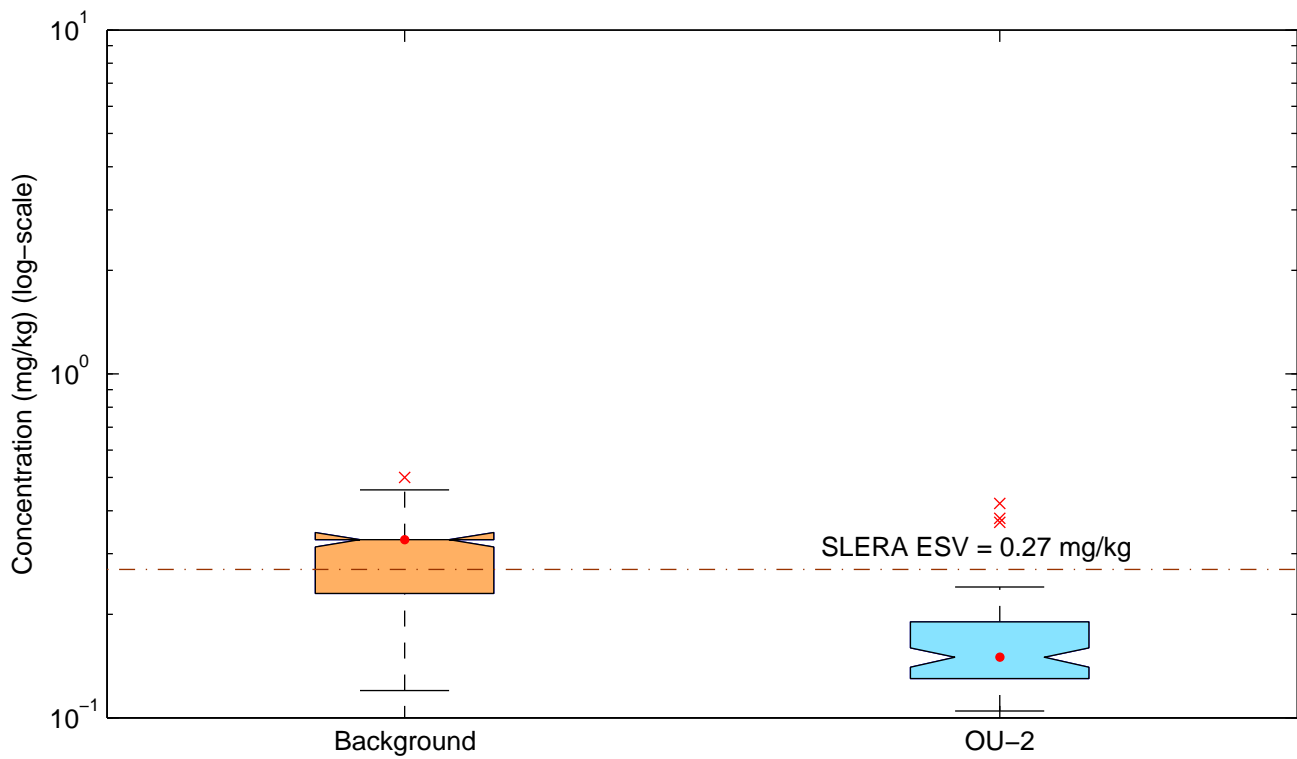
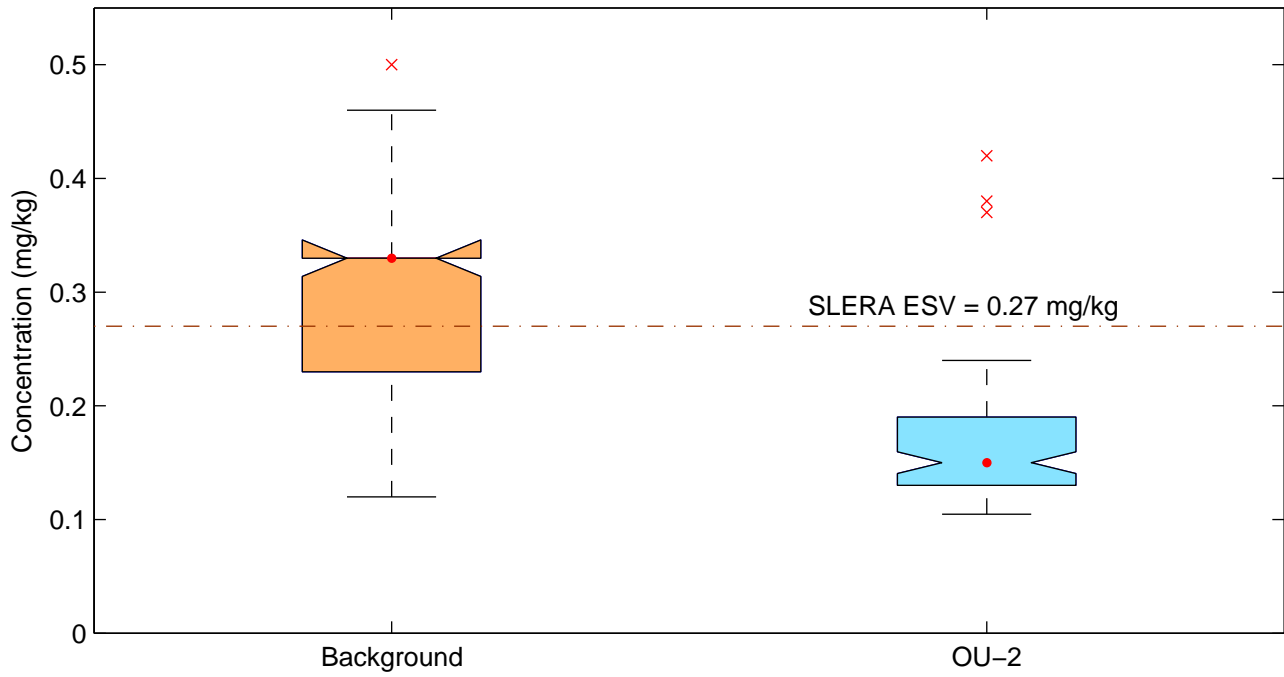
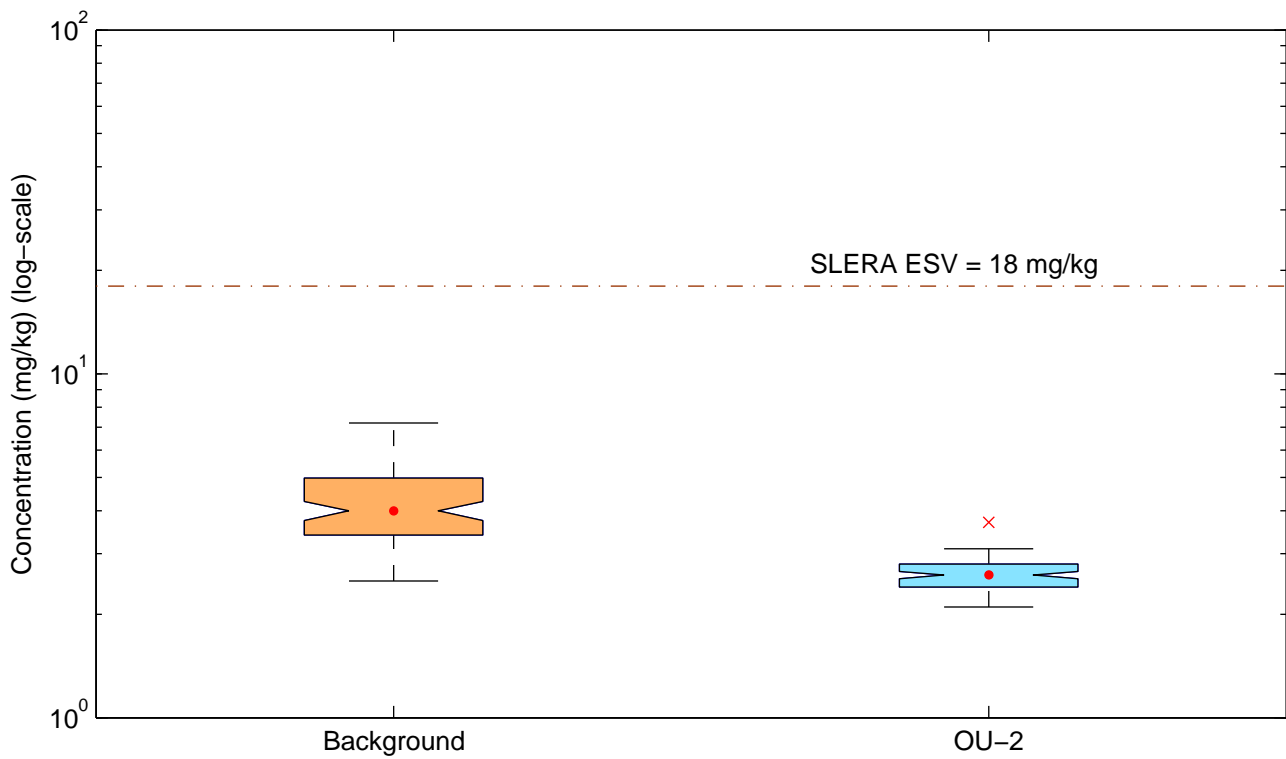
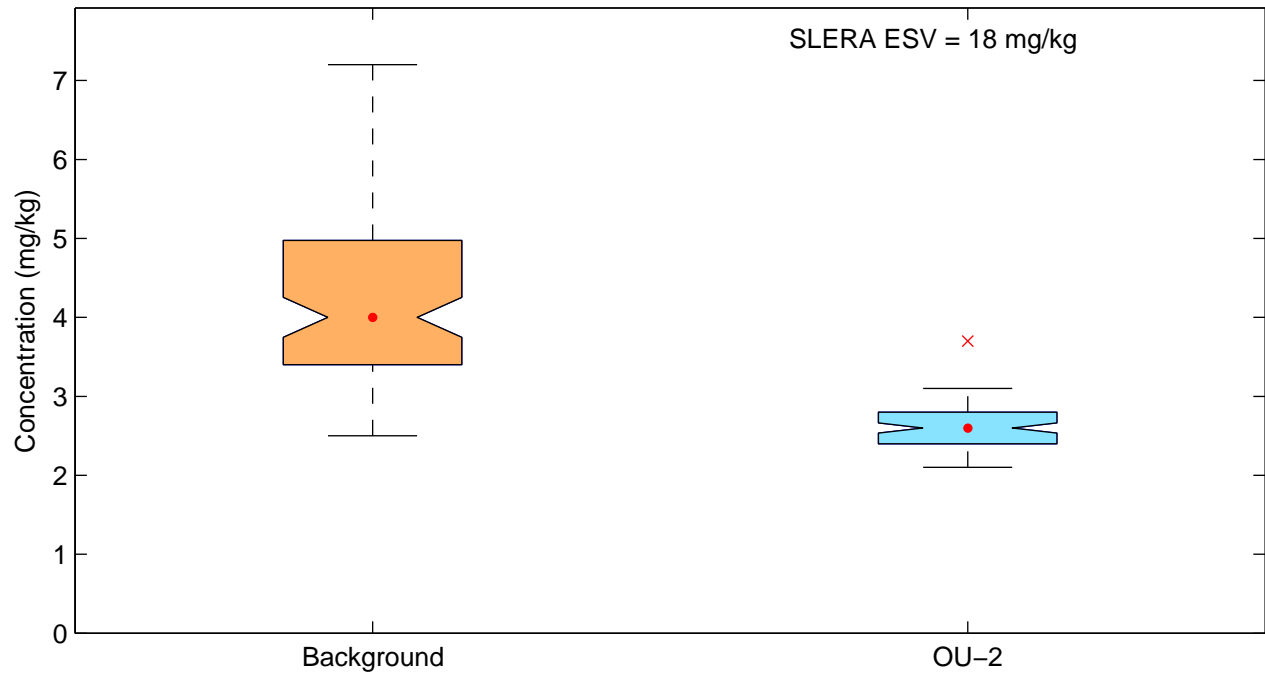


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Arsenic



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Barium**

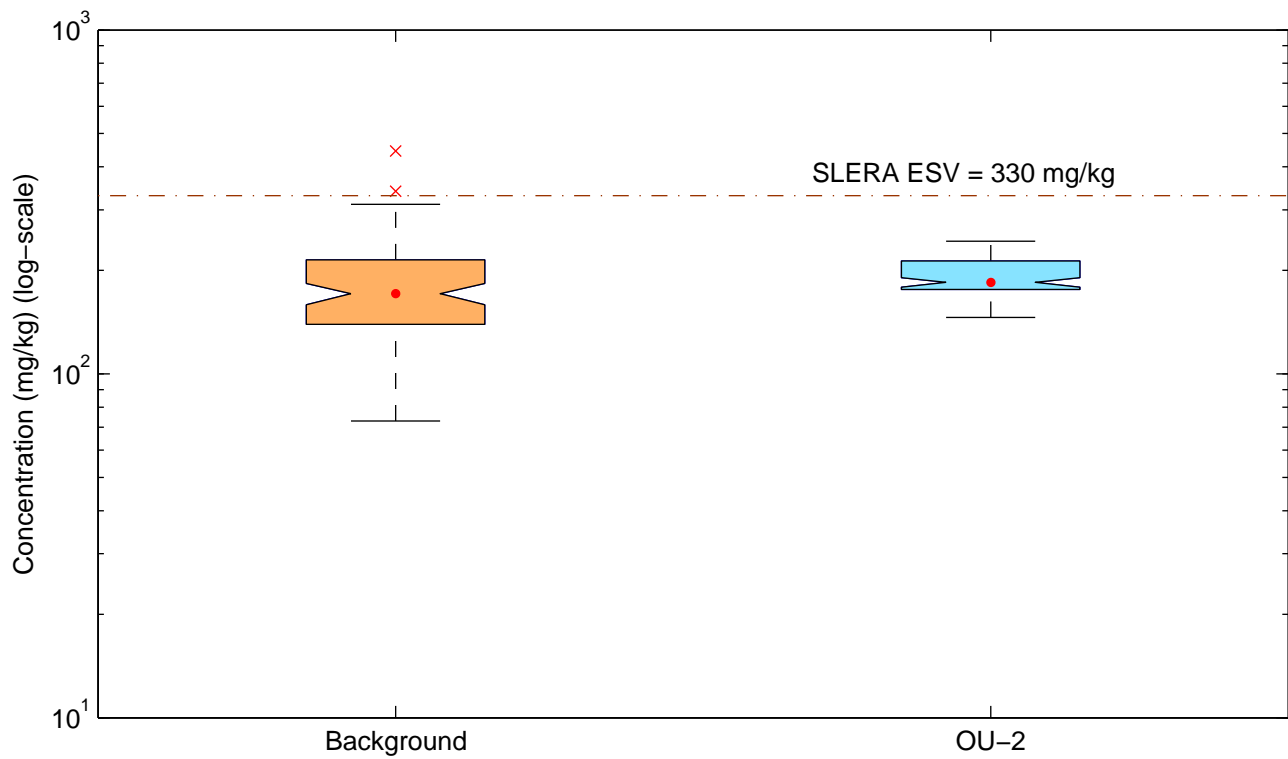
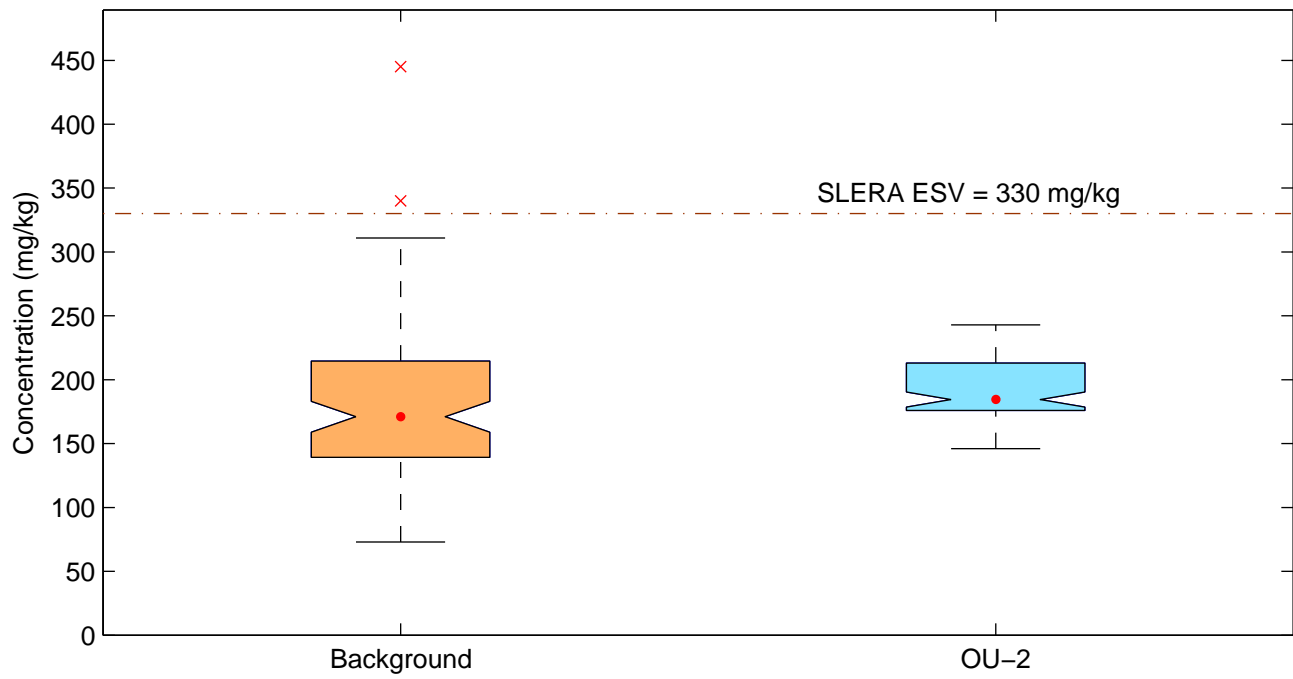


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Beryllium

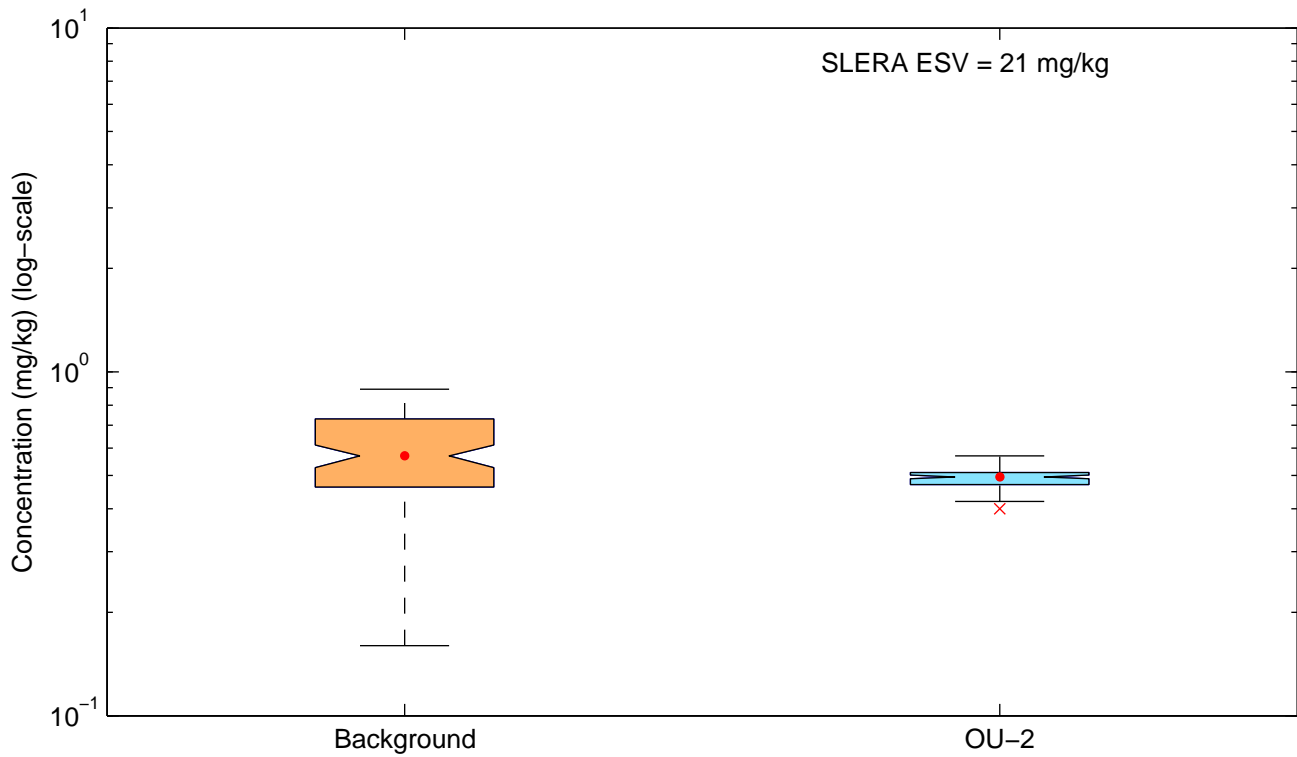
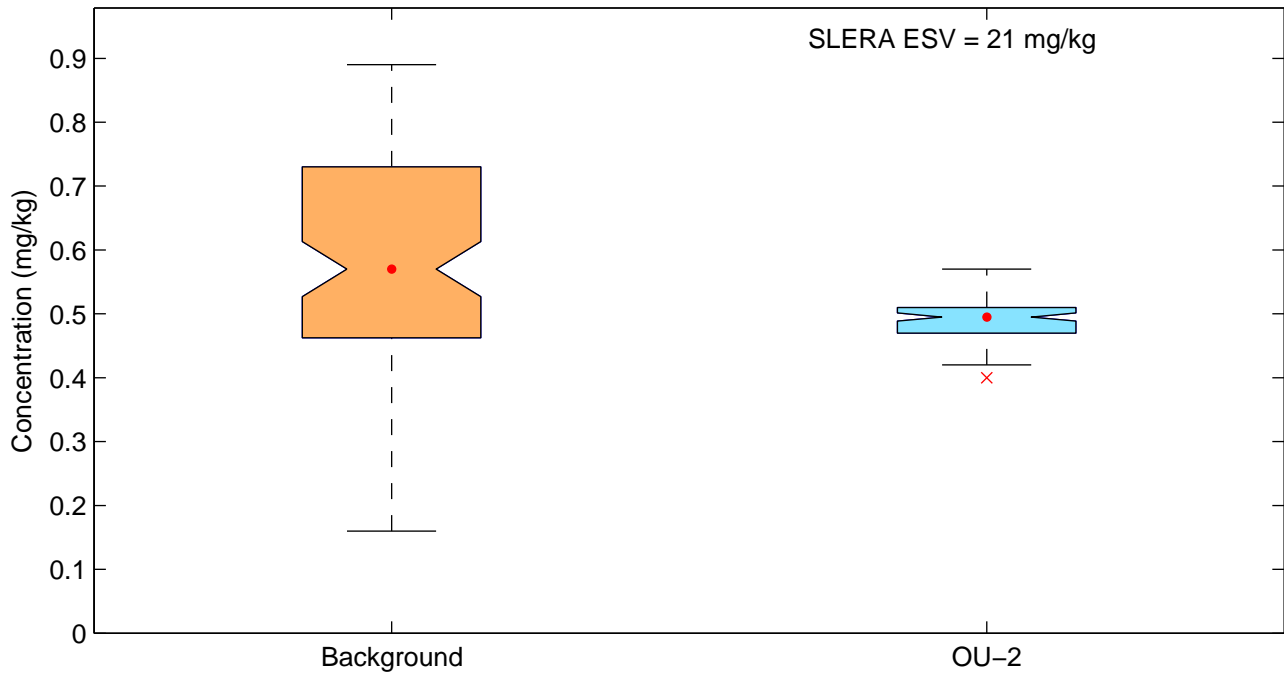


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Boron

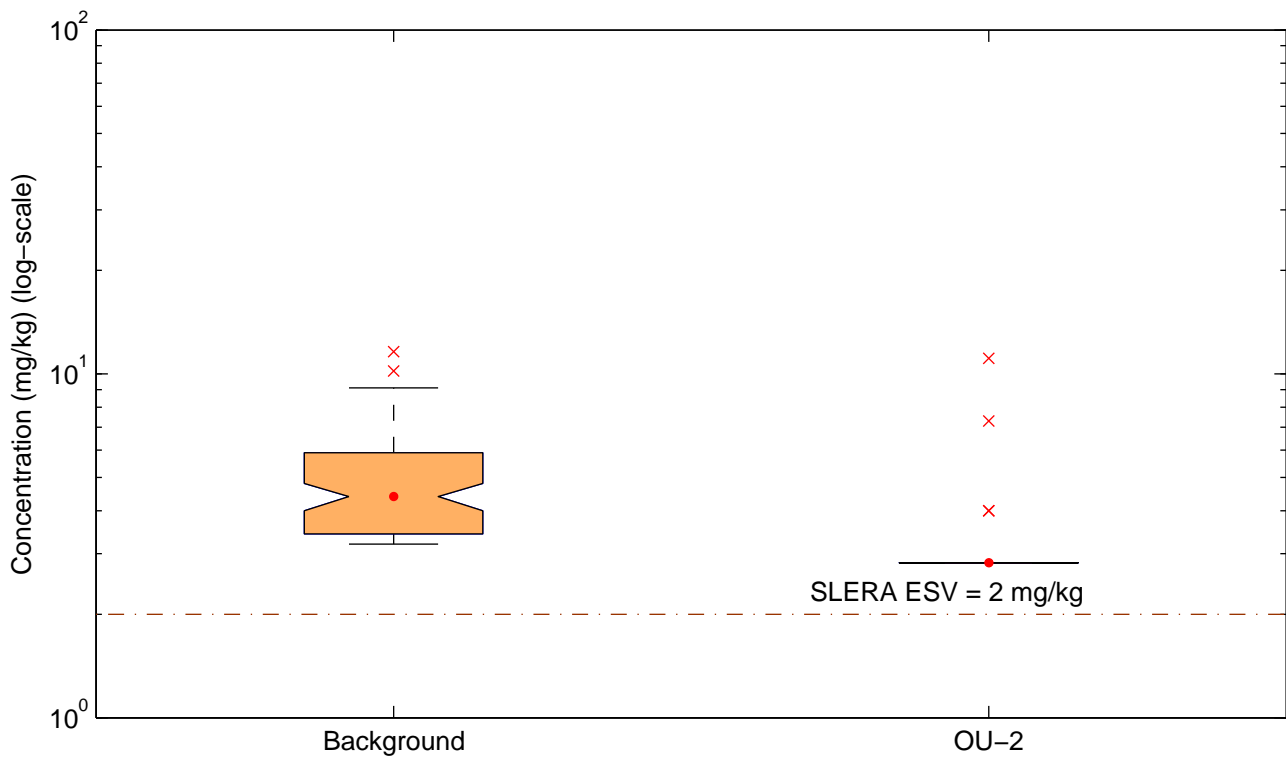
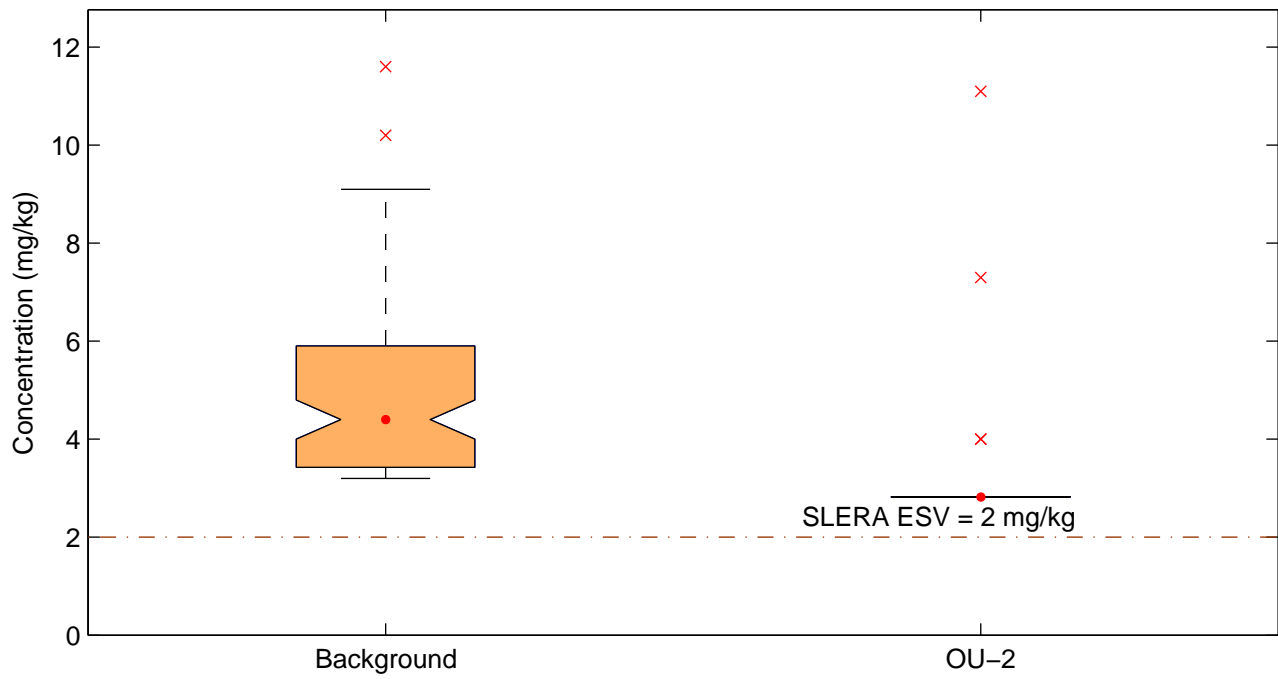
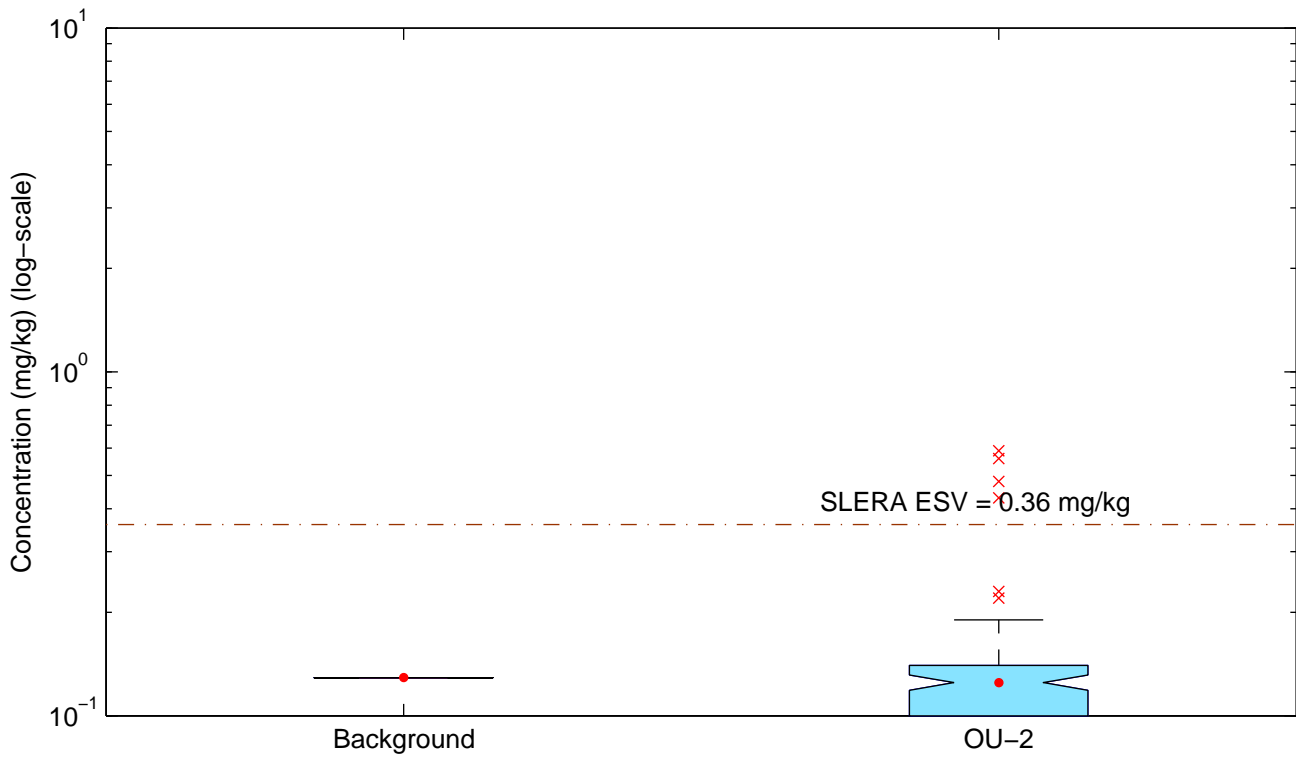
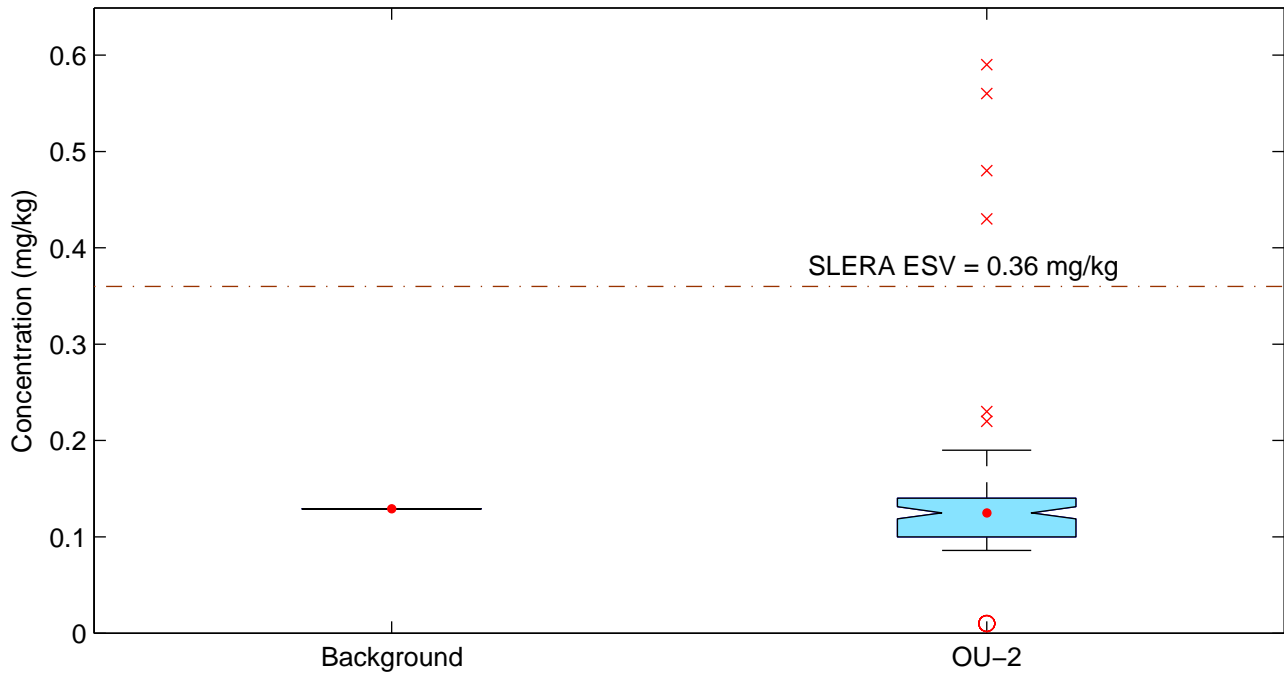
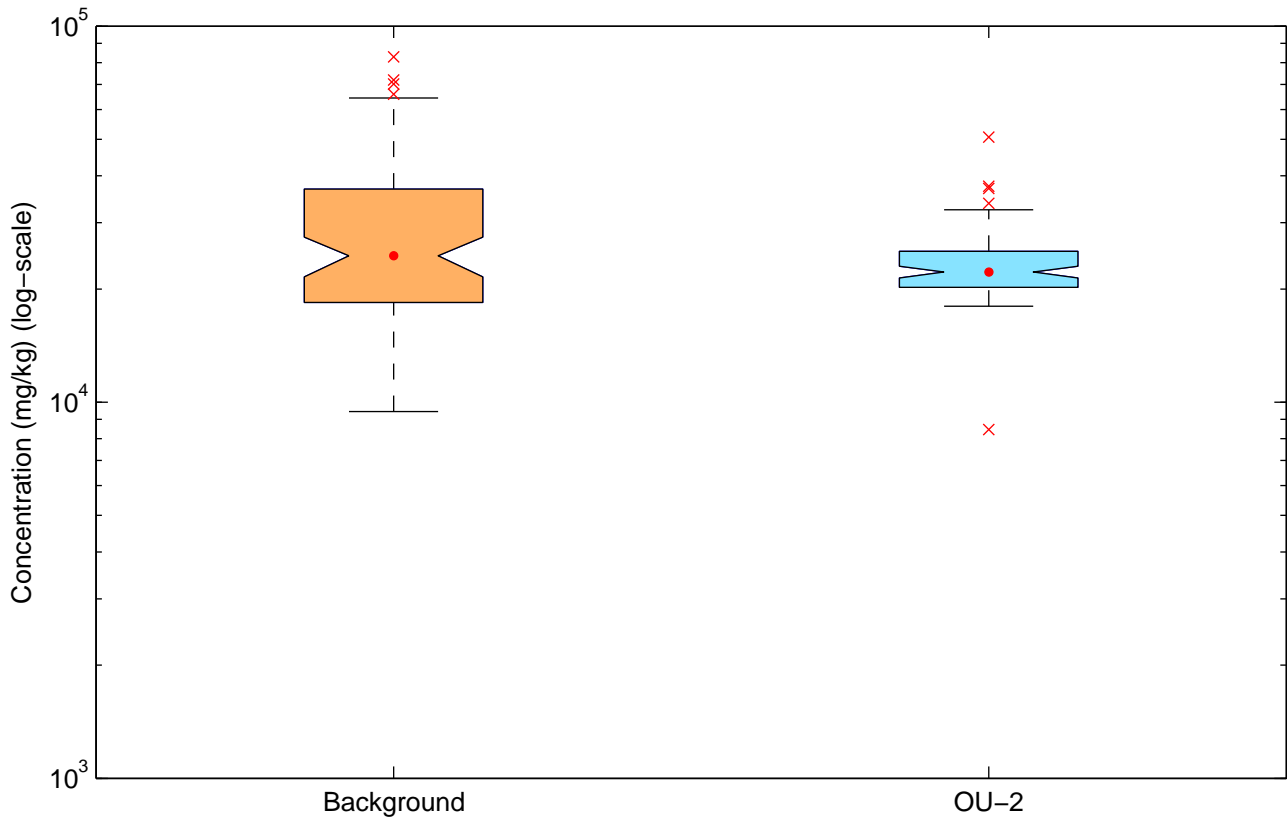
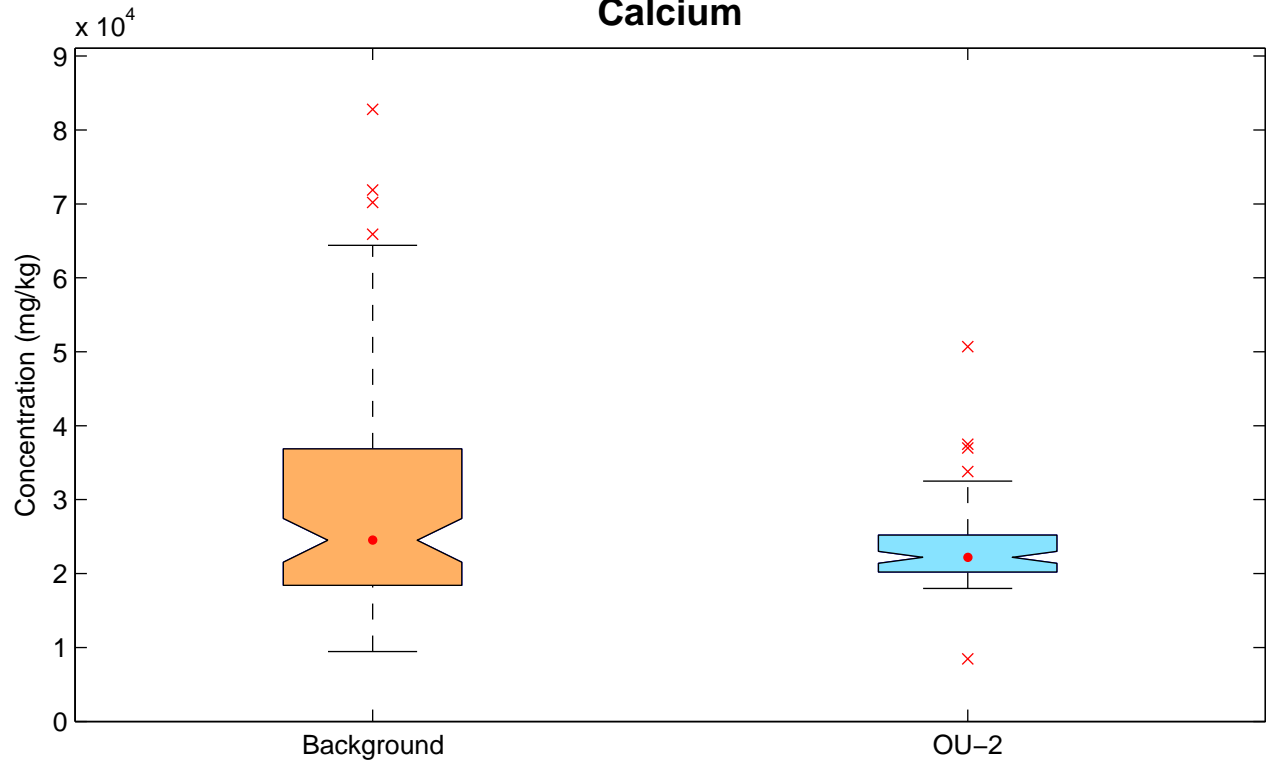


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Cadmium



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Calcium**



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Chromium (total)**

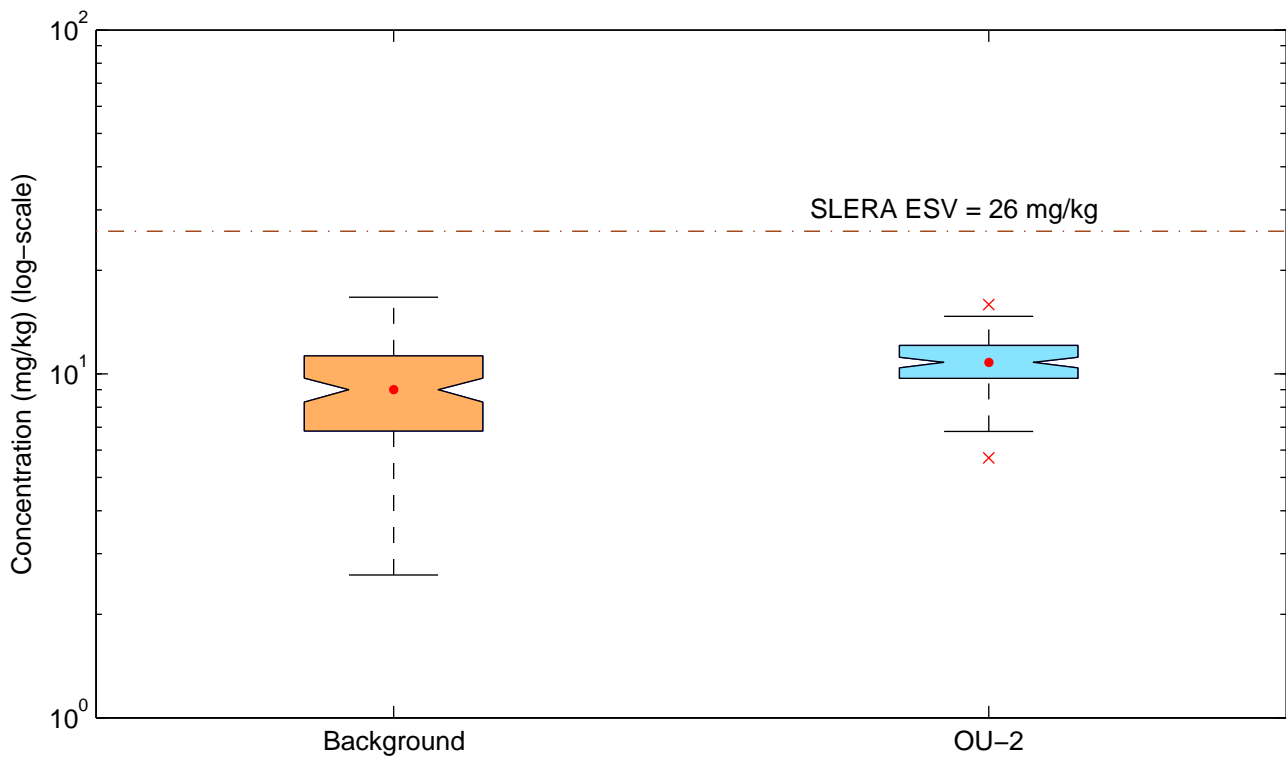
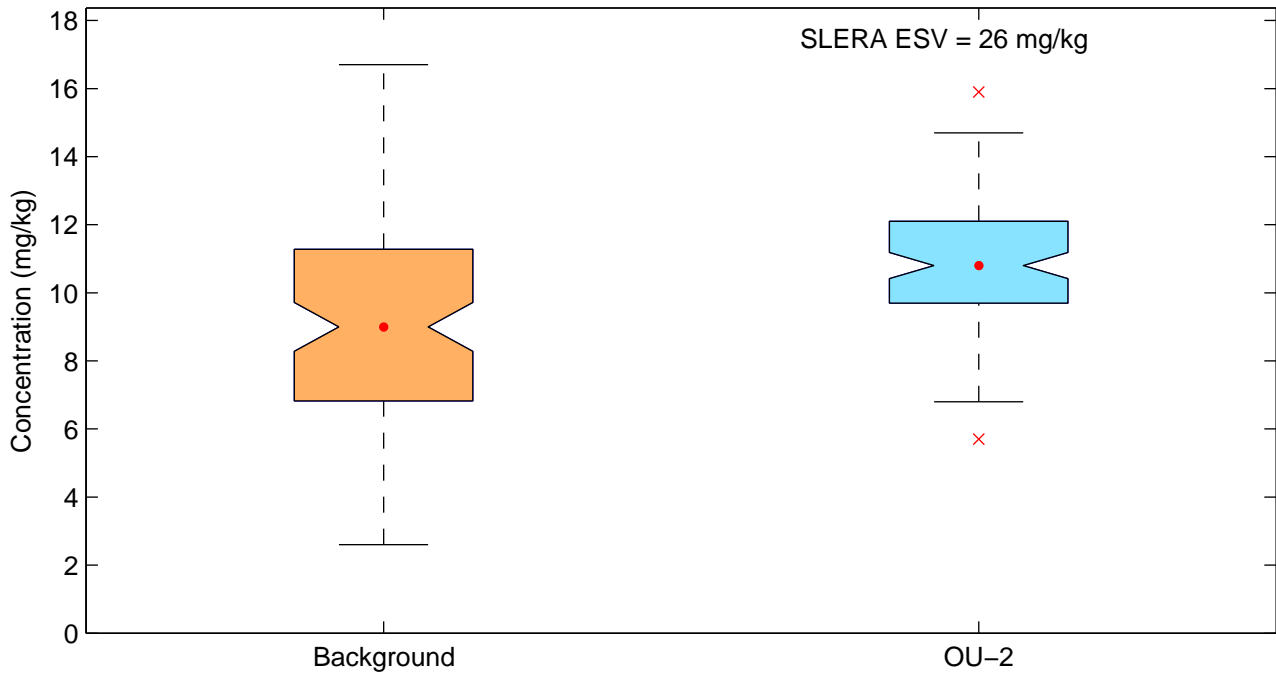
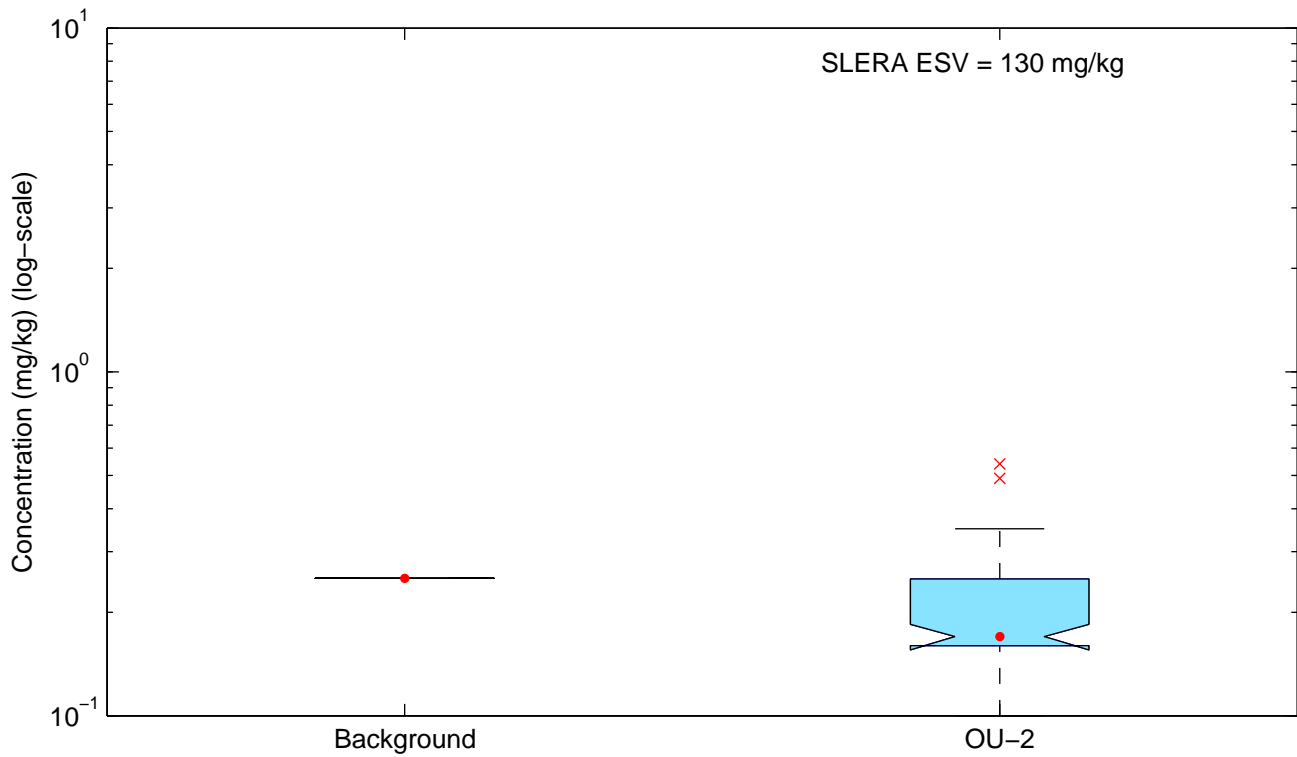
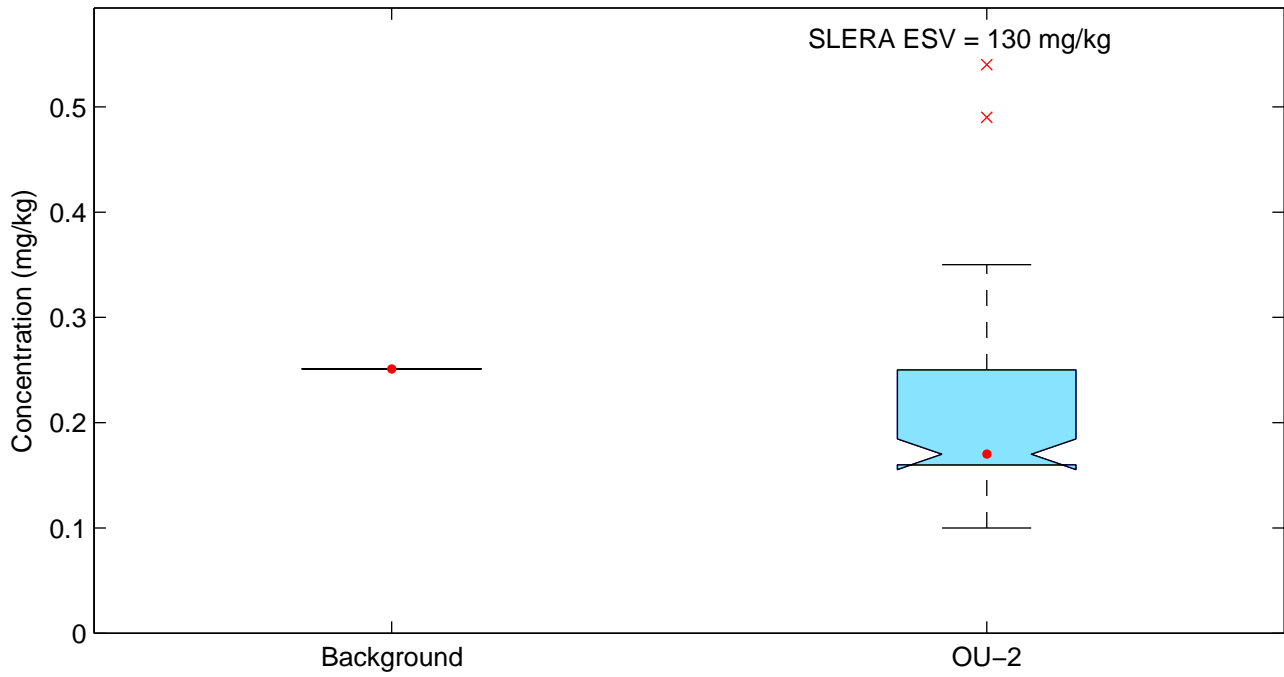
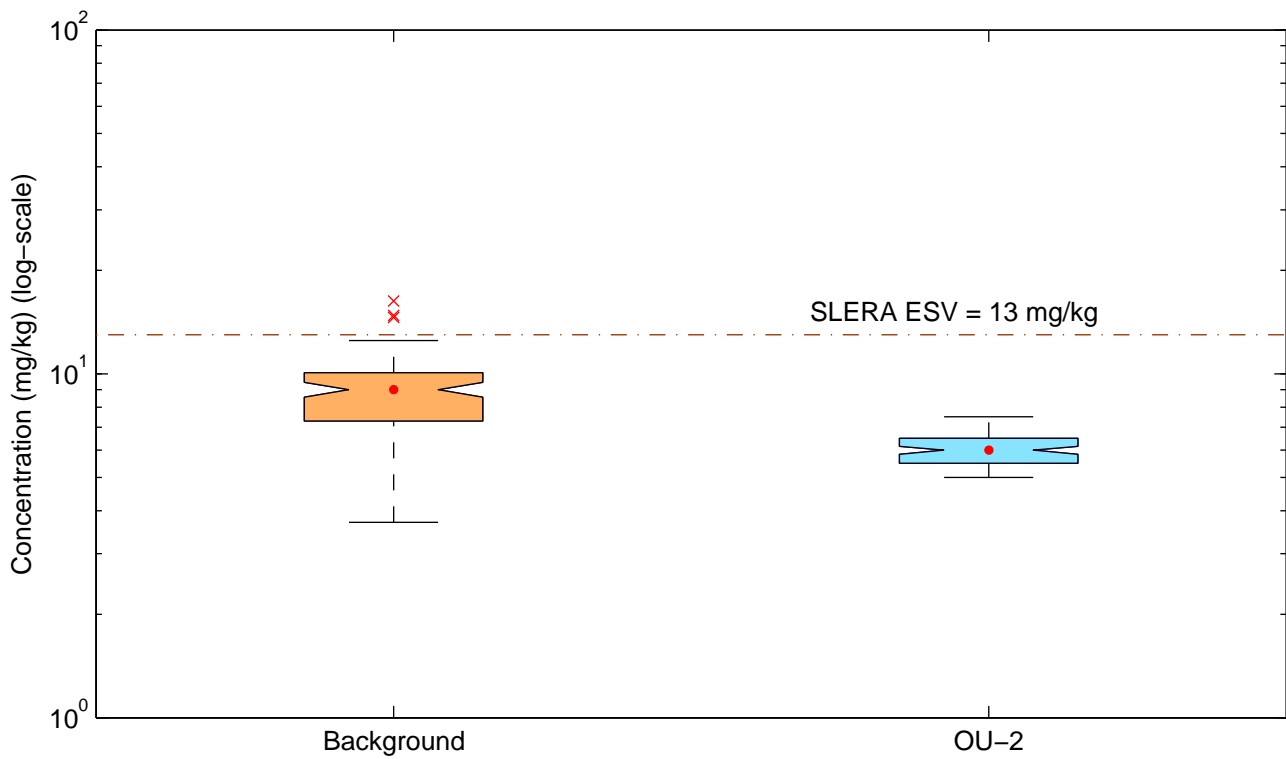
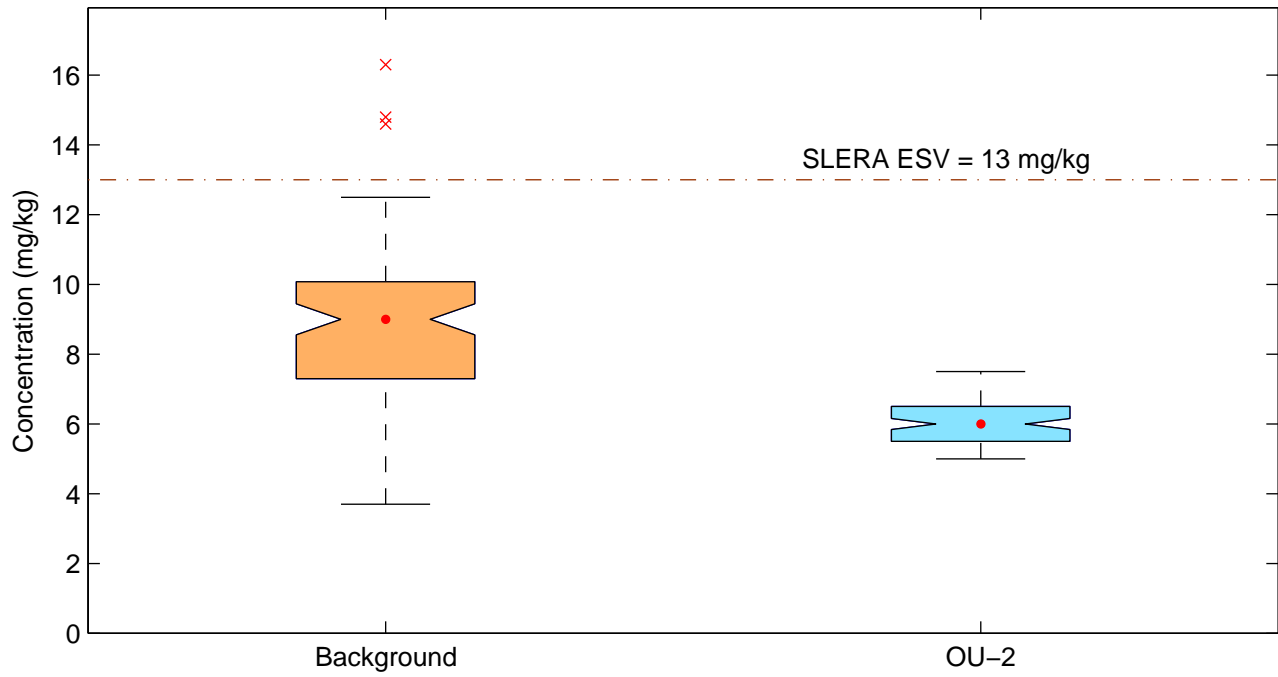


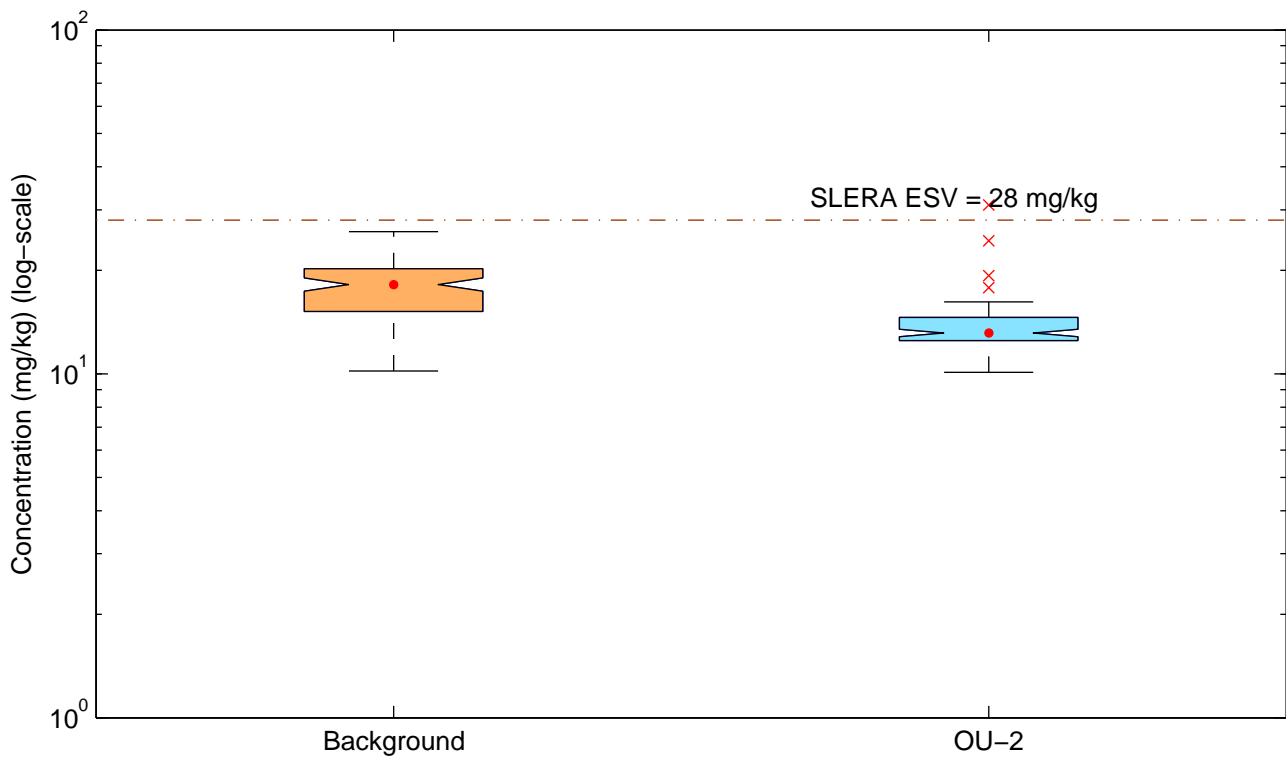
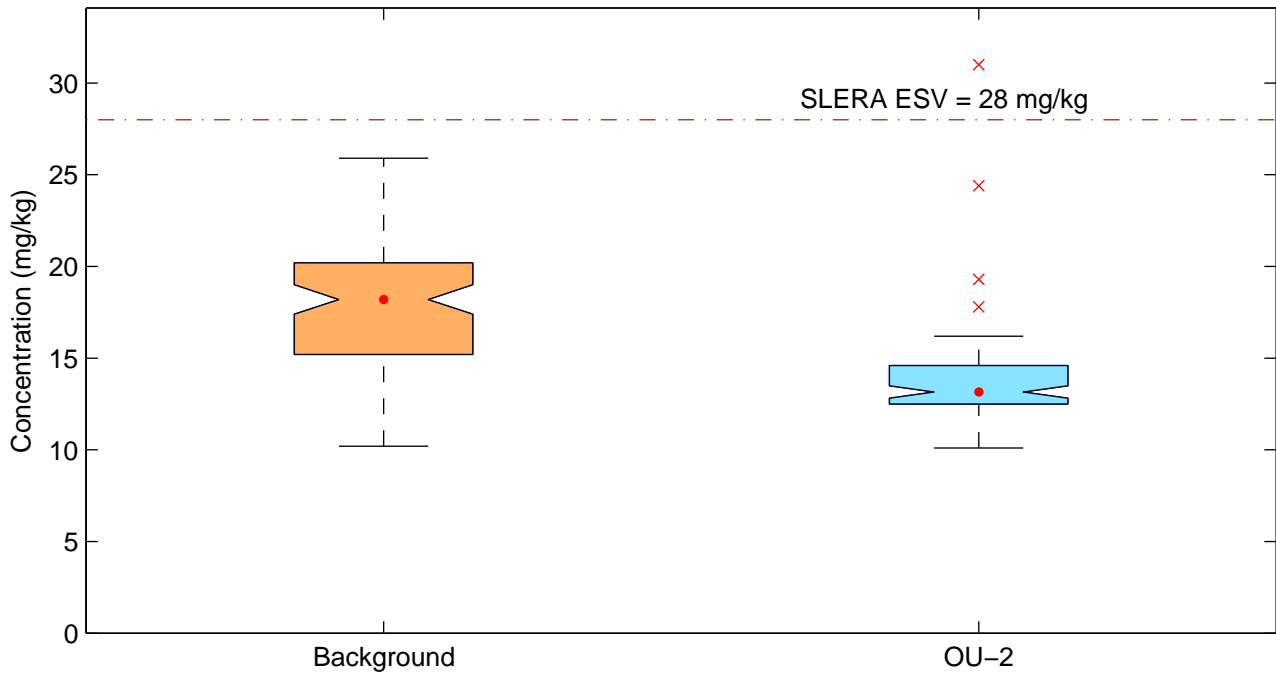
Figure D-2a. Background vs. OU-2 Boxplots for Metals
Chromium VI



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Cobalt**



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Copper**



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Iron**

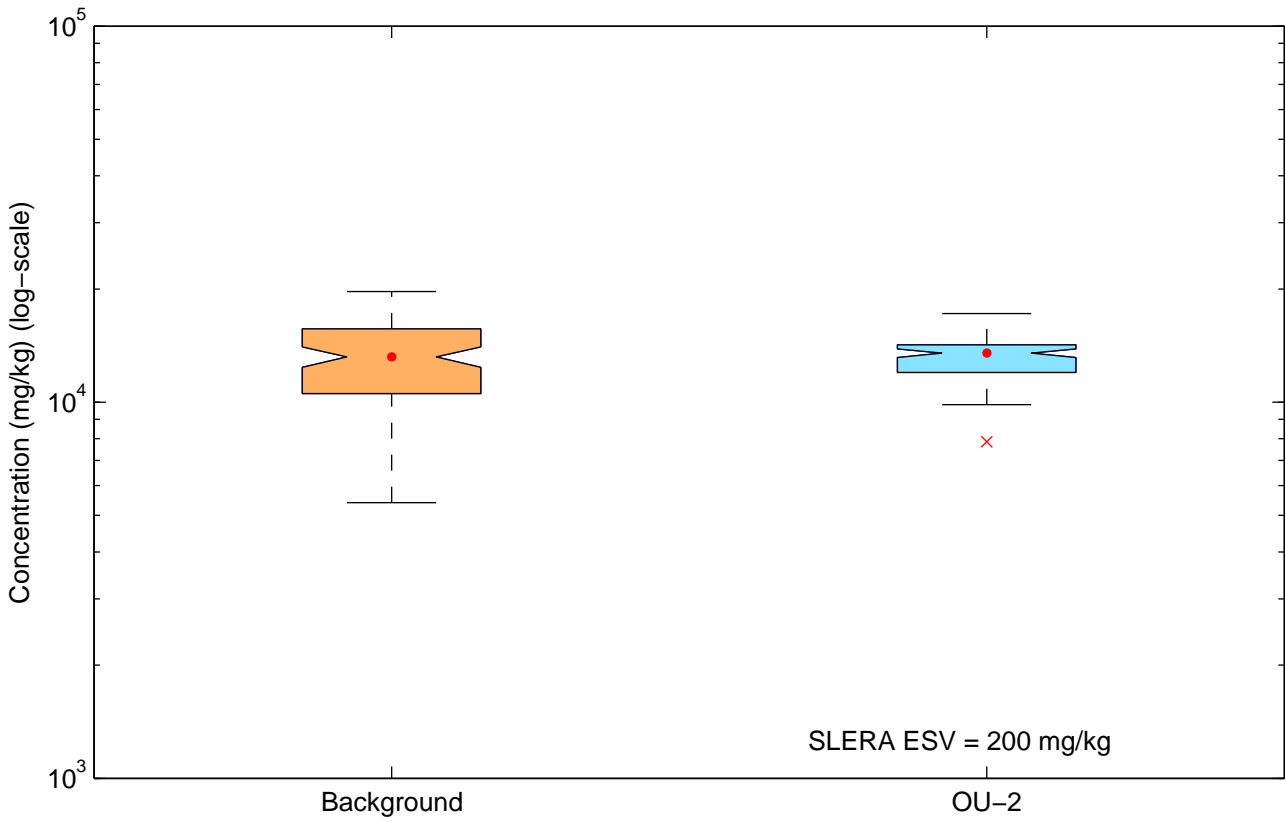
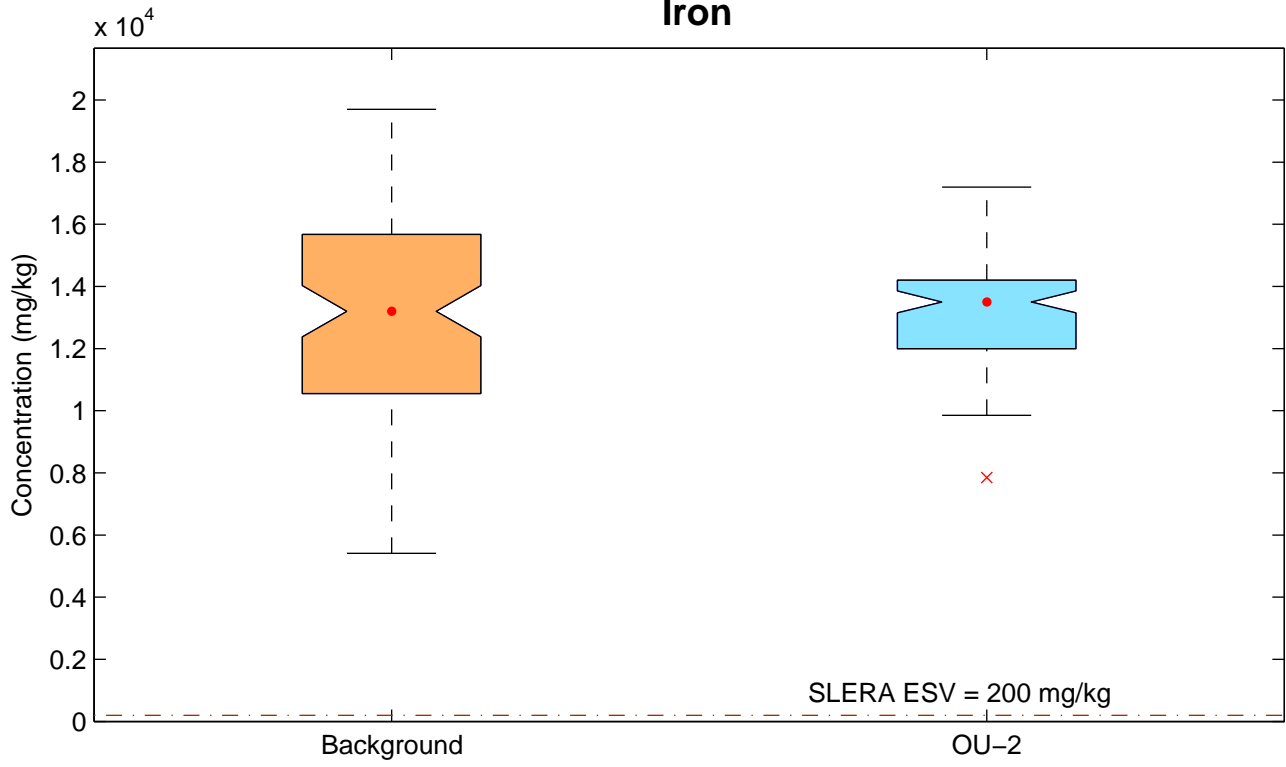


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Lead

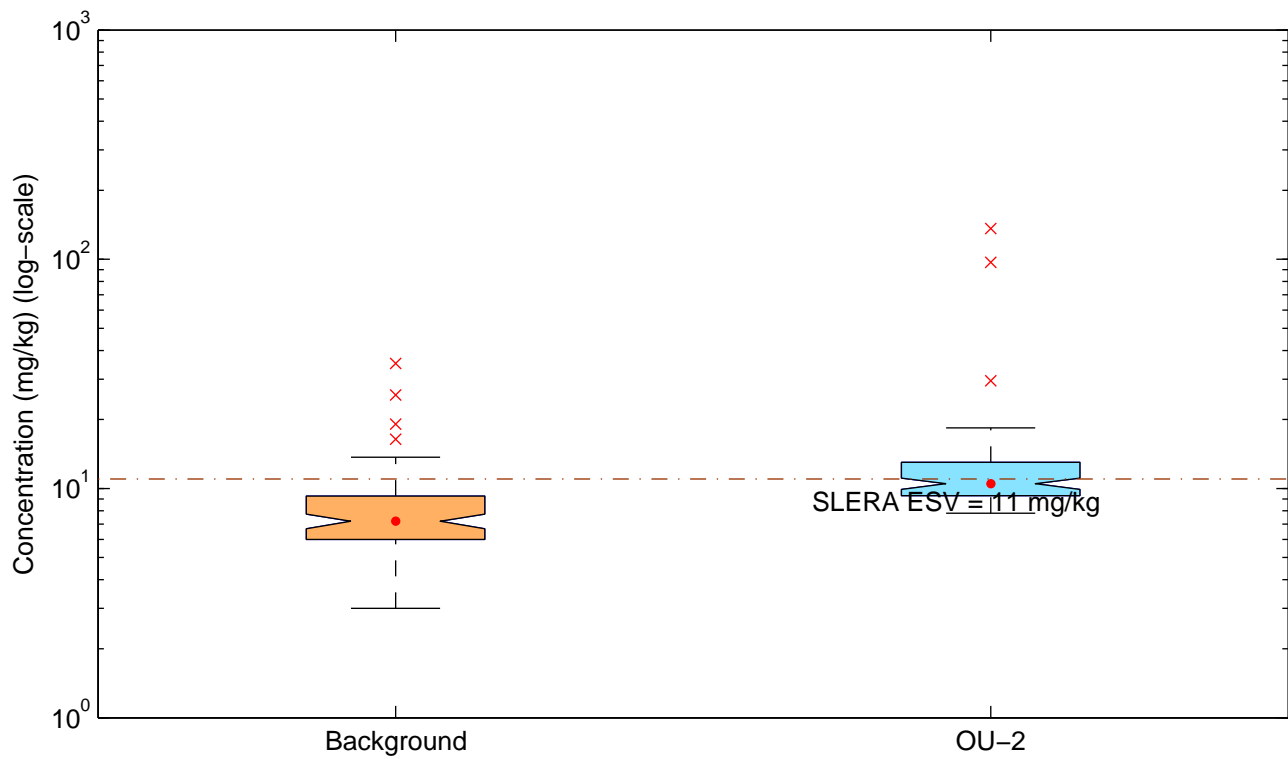
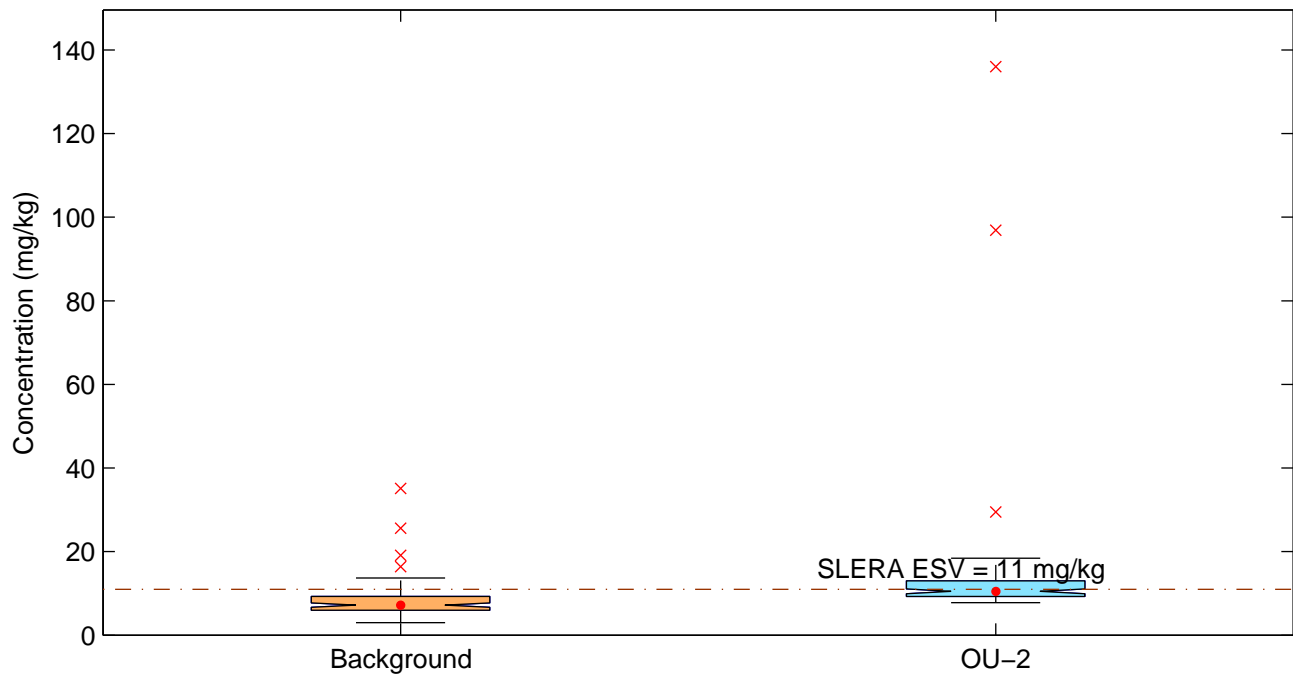
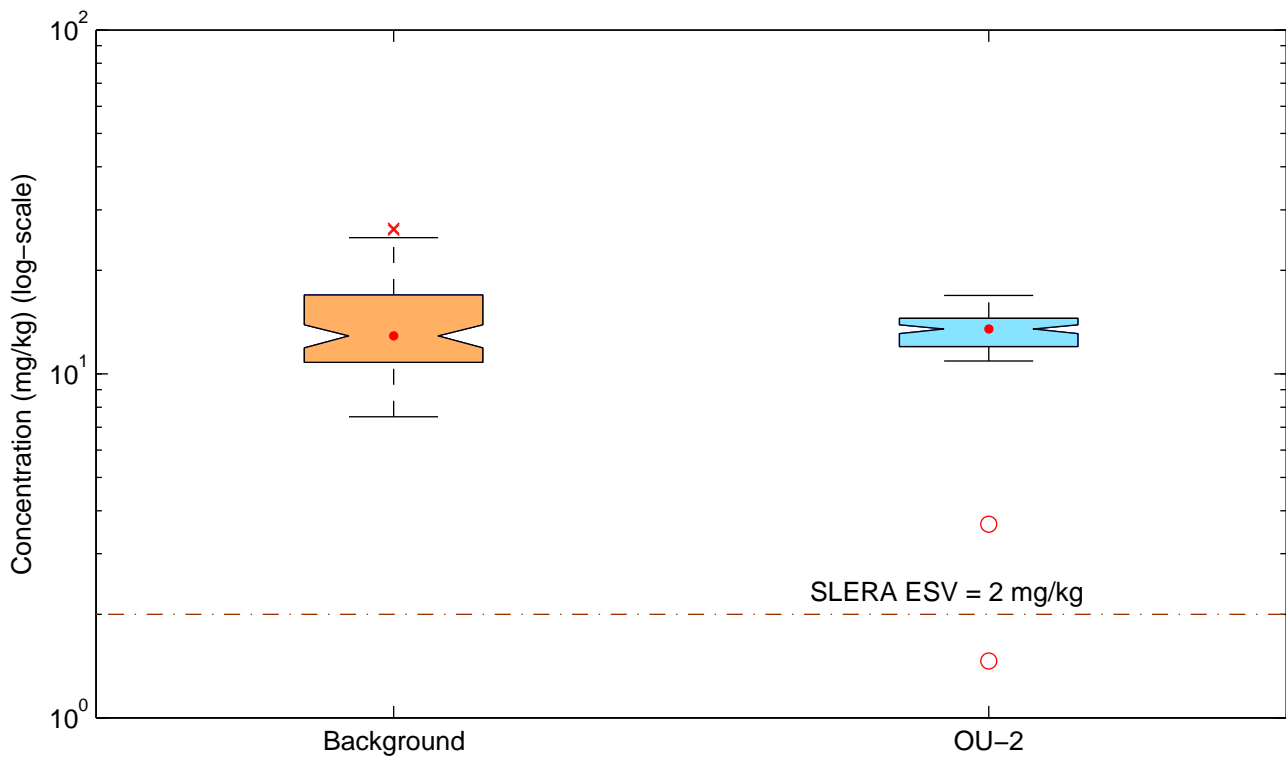
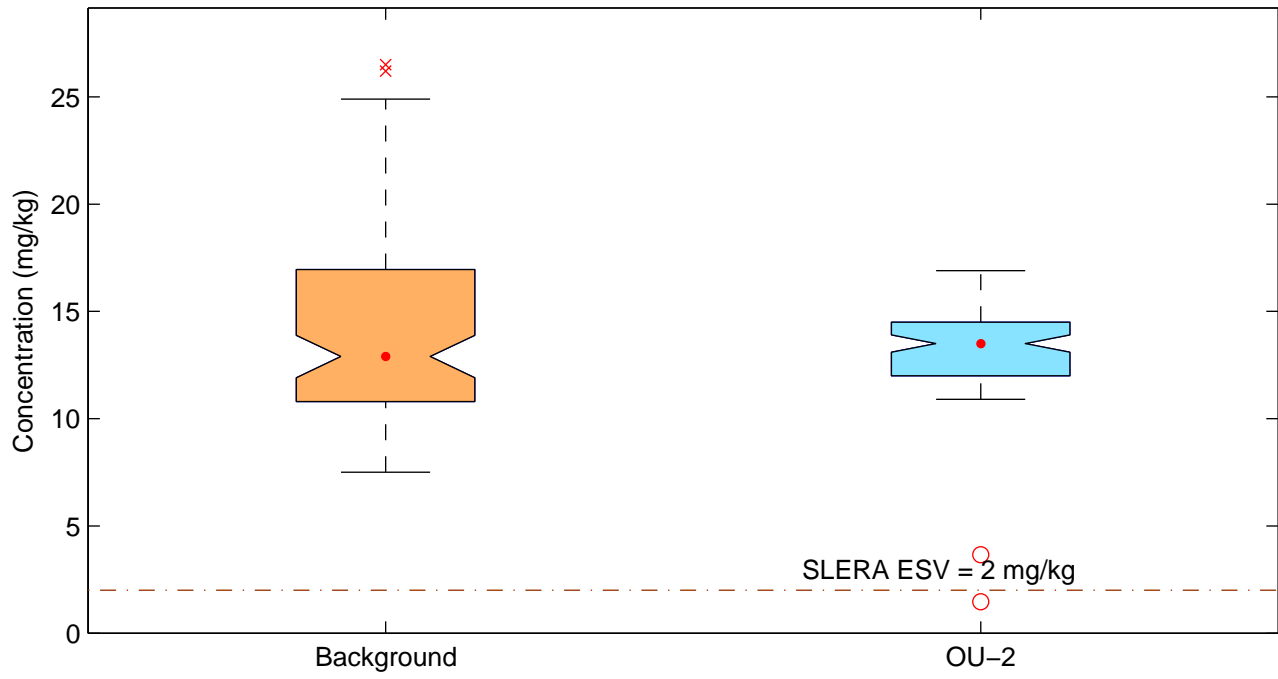


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Lithium



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Magnesium**

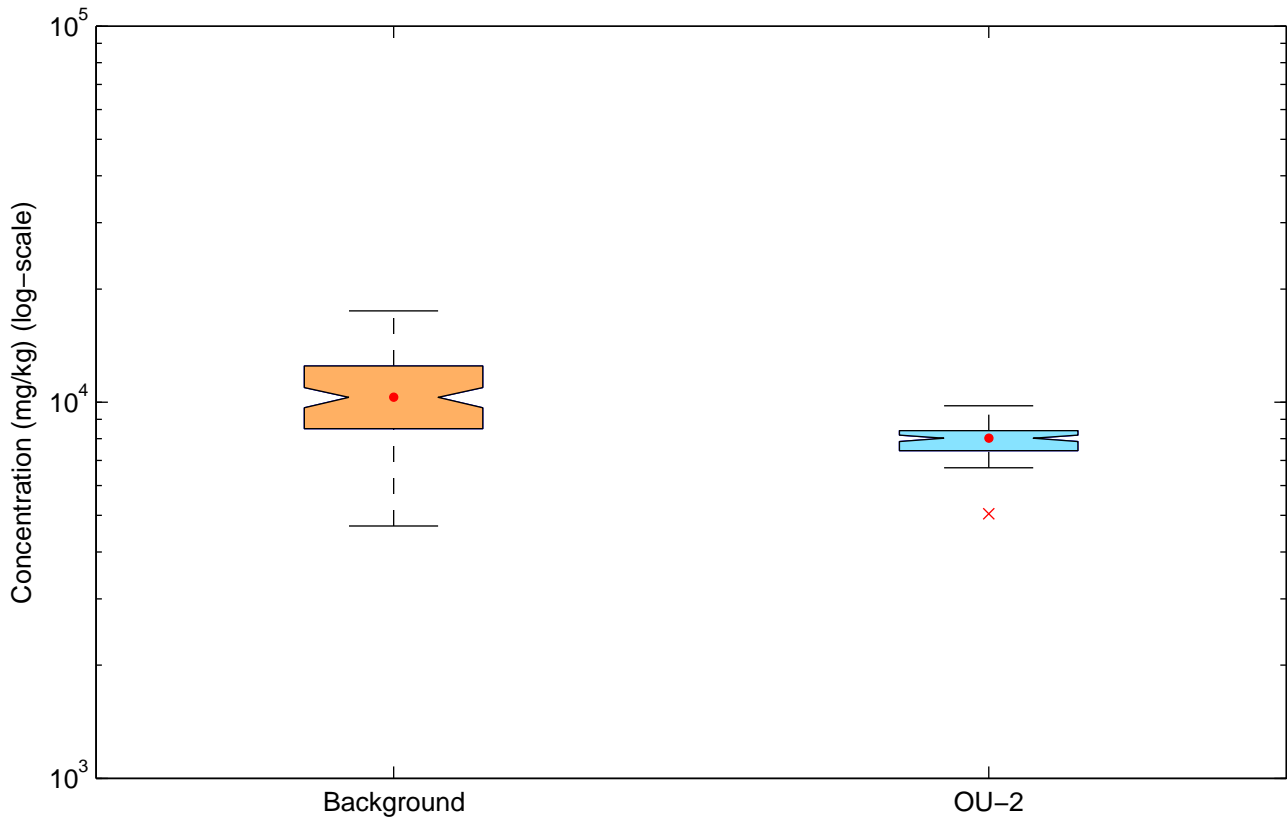
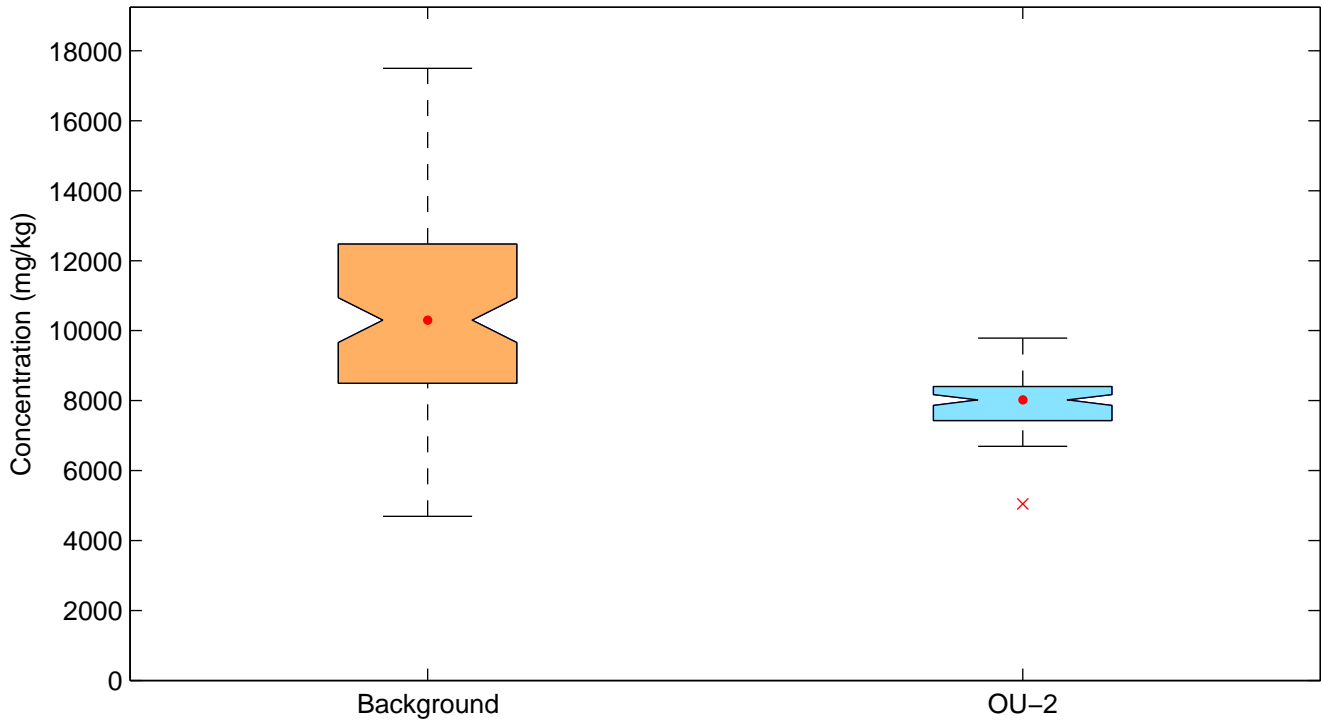


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Manganese

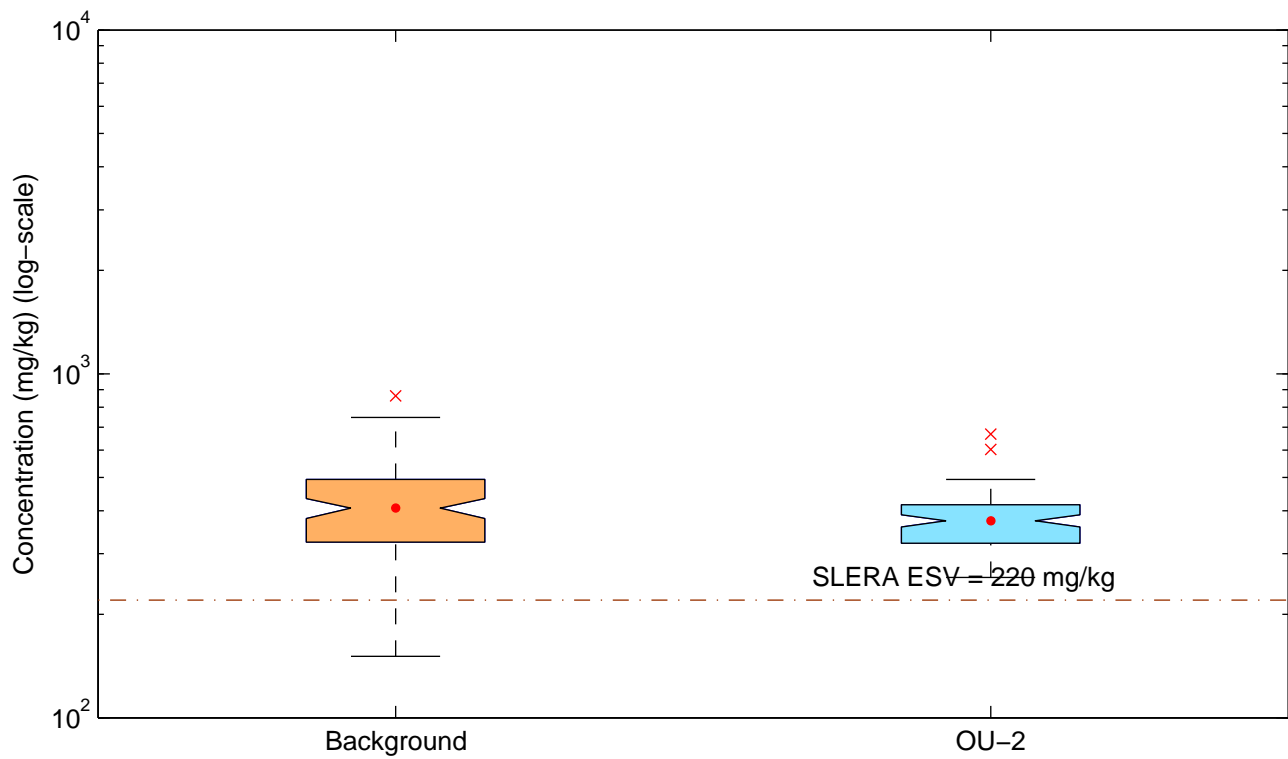
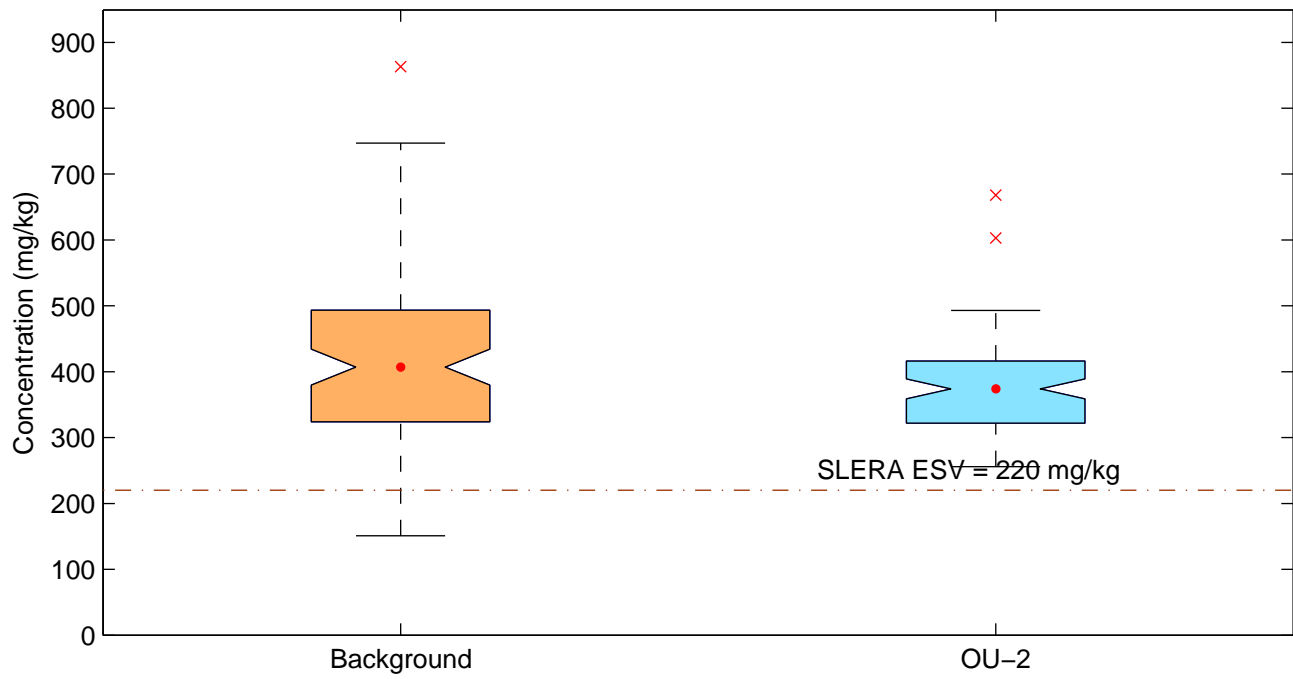


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Mercury

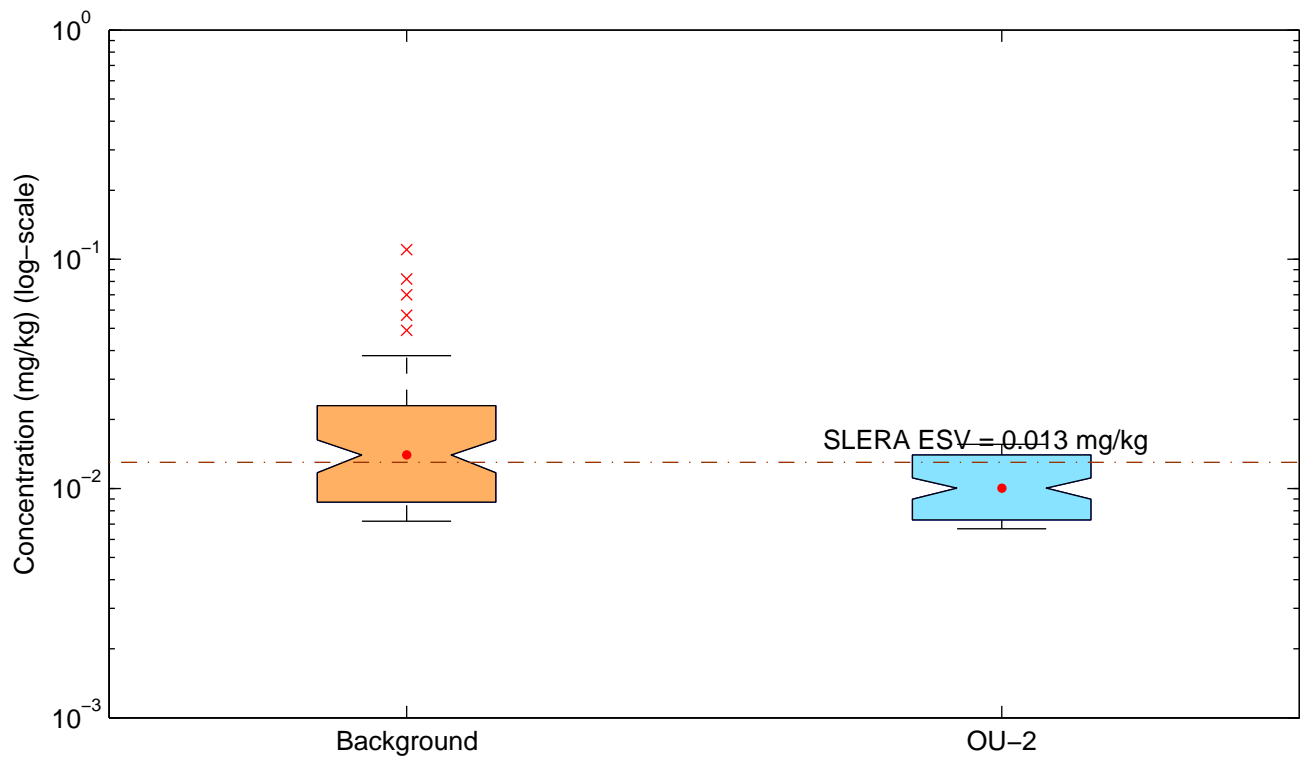
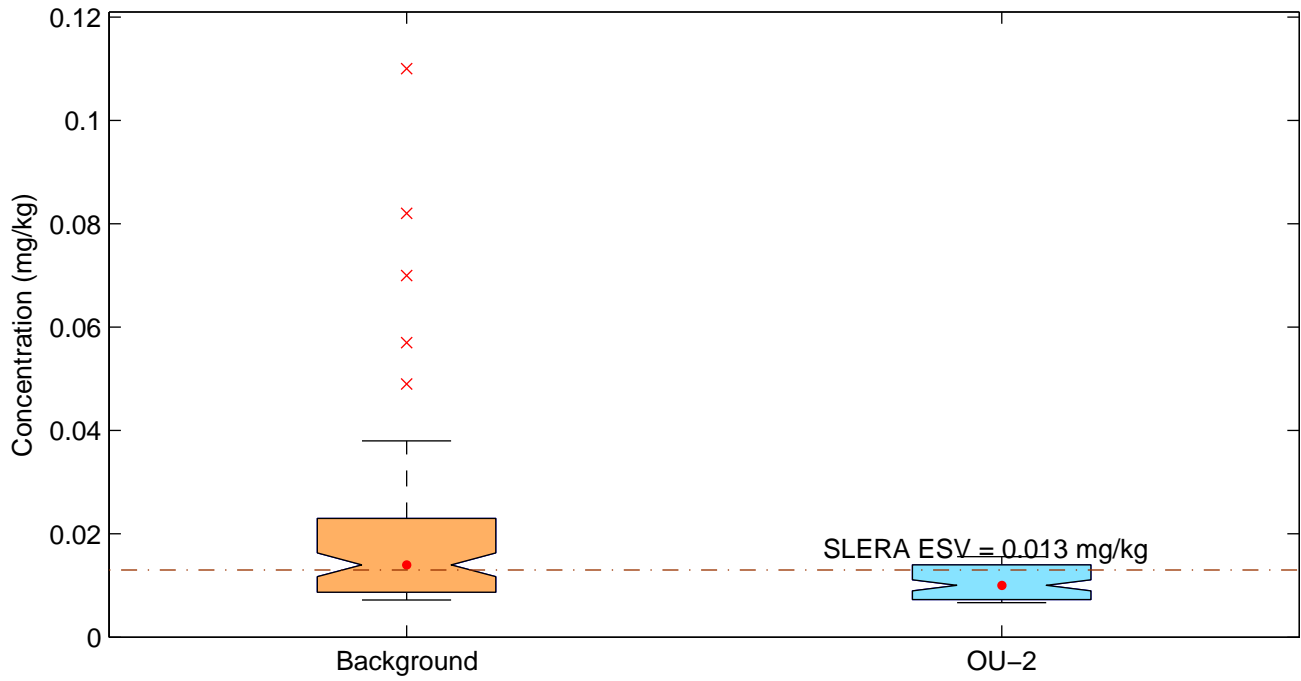
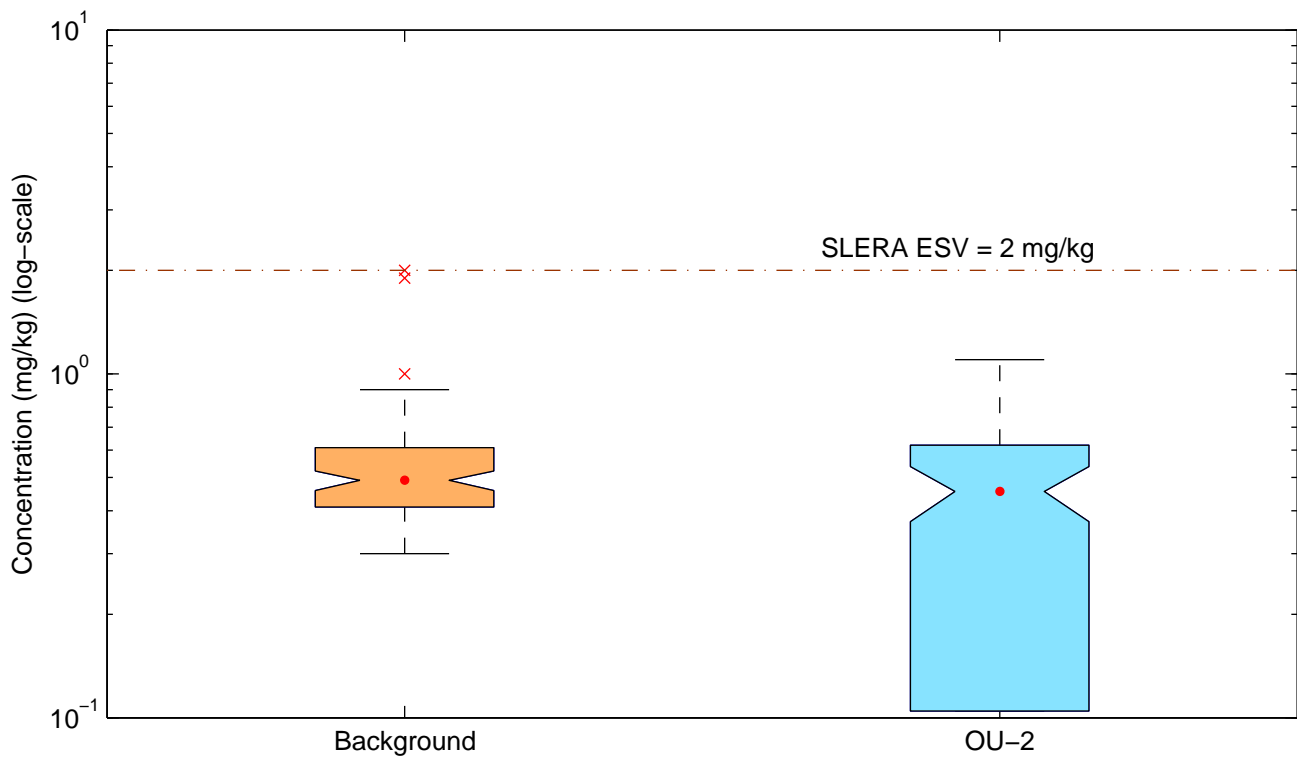
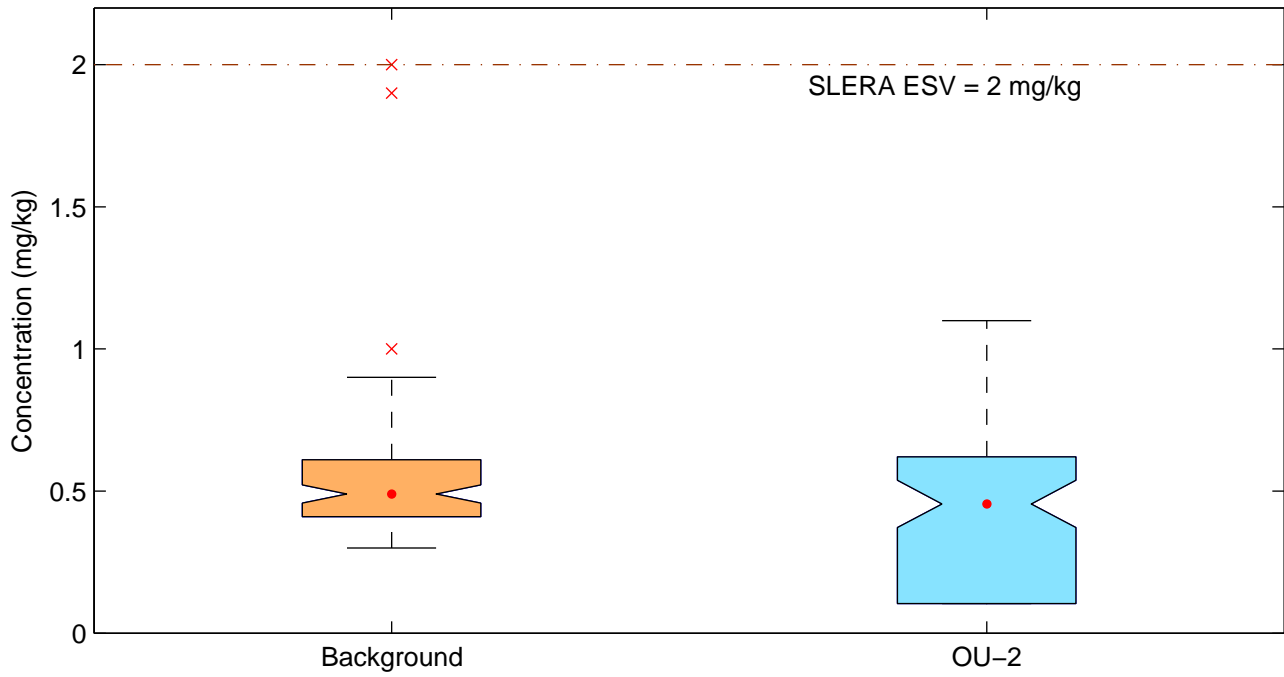


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Molybdenum



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Nickel**

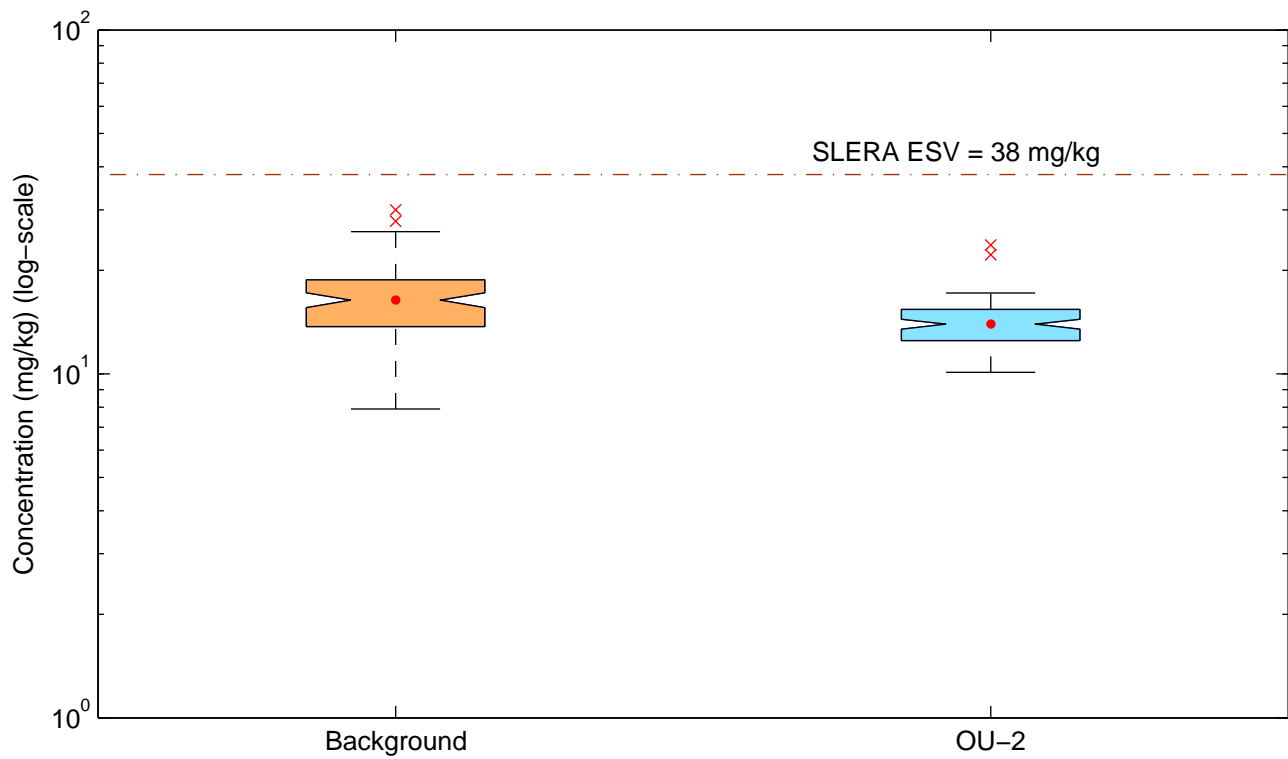
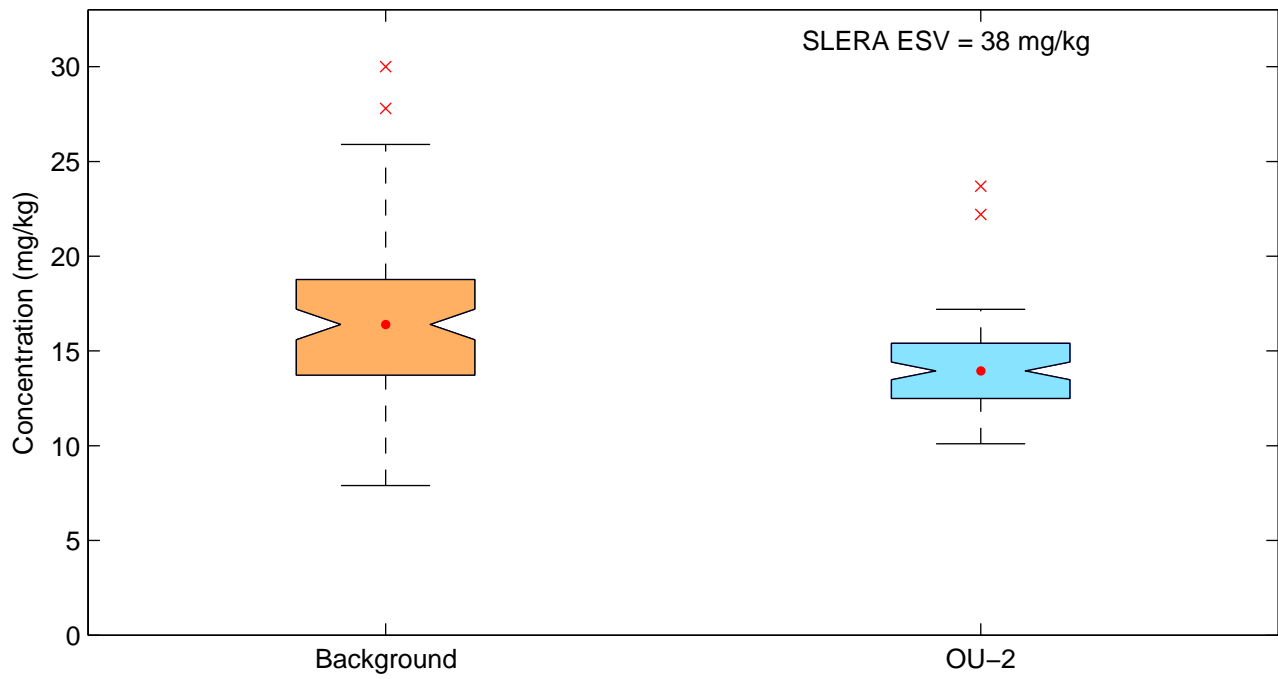


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Niobium

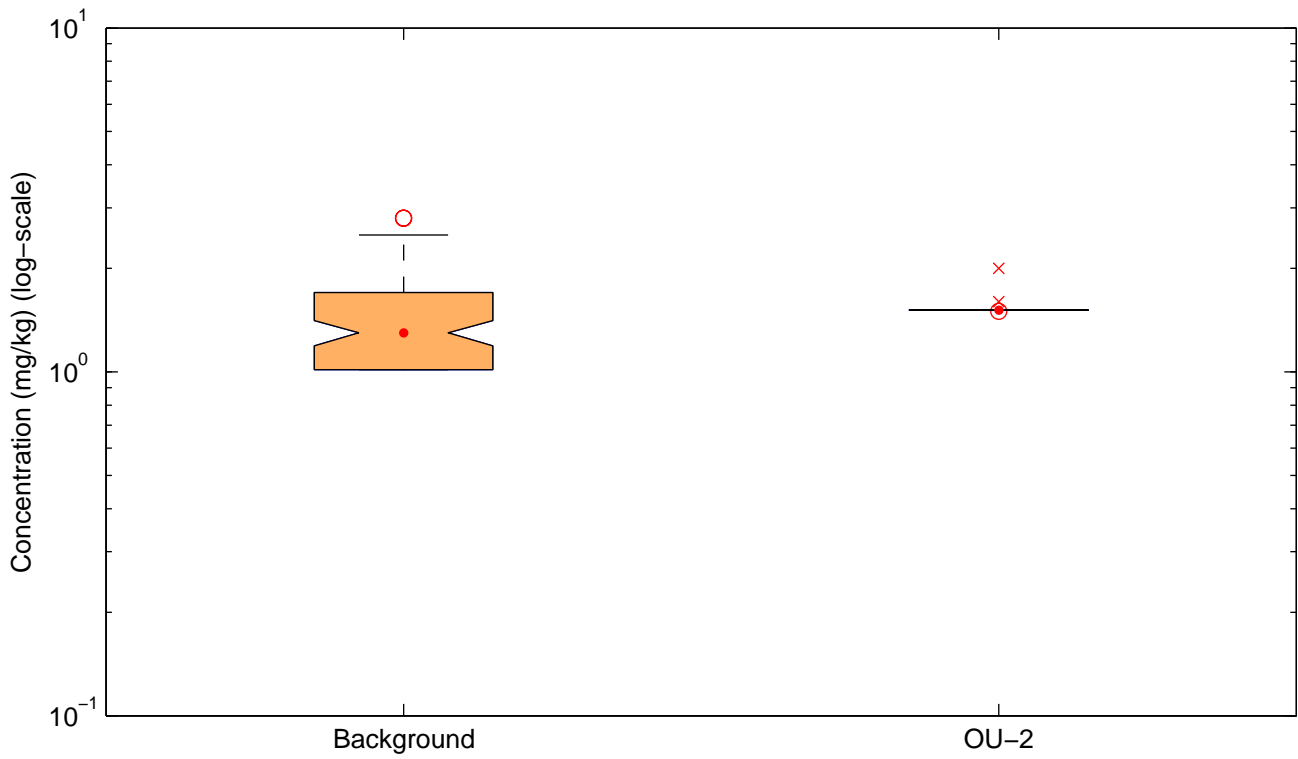
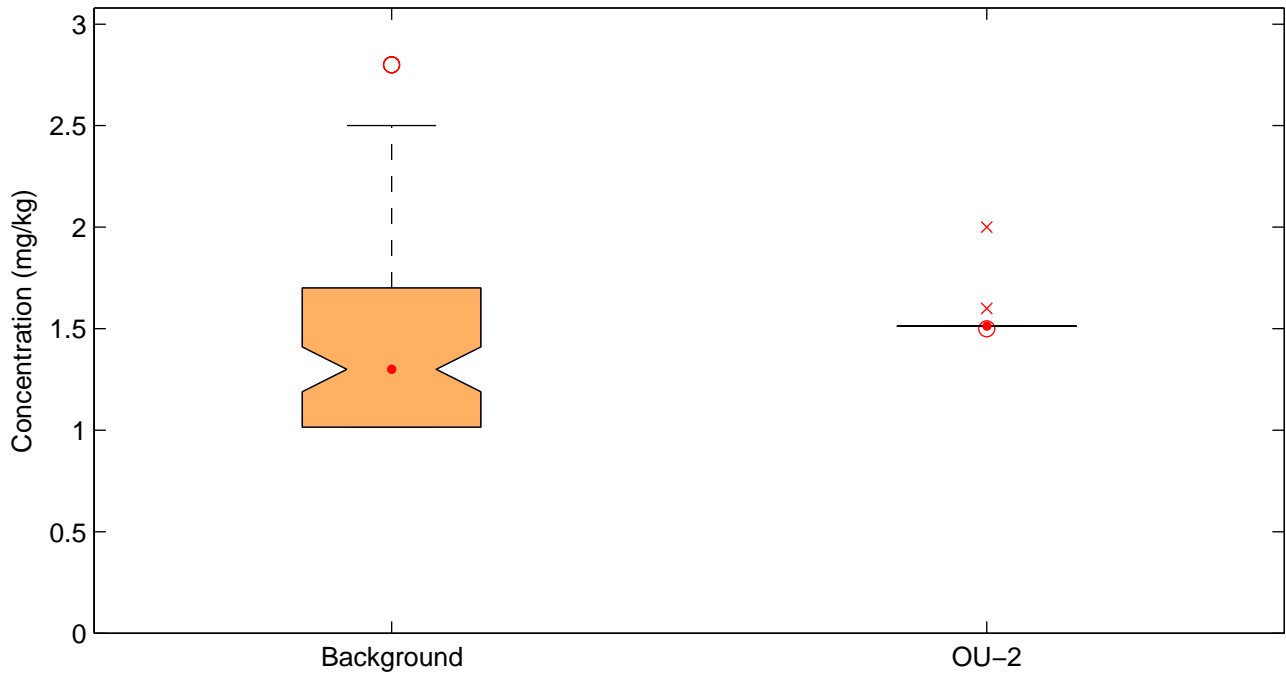
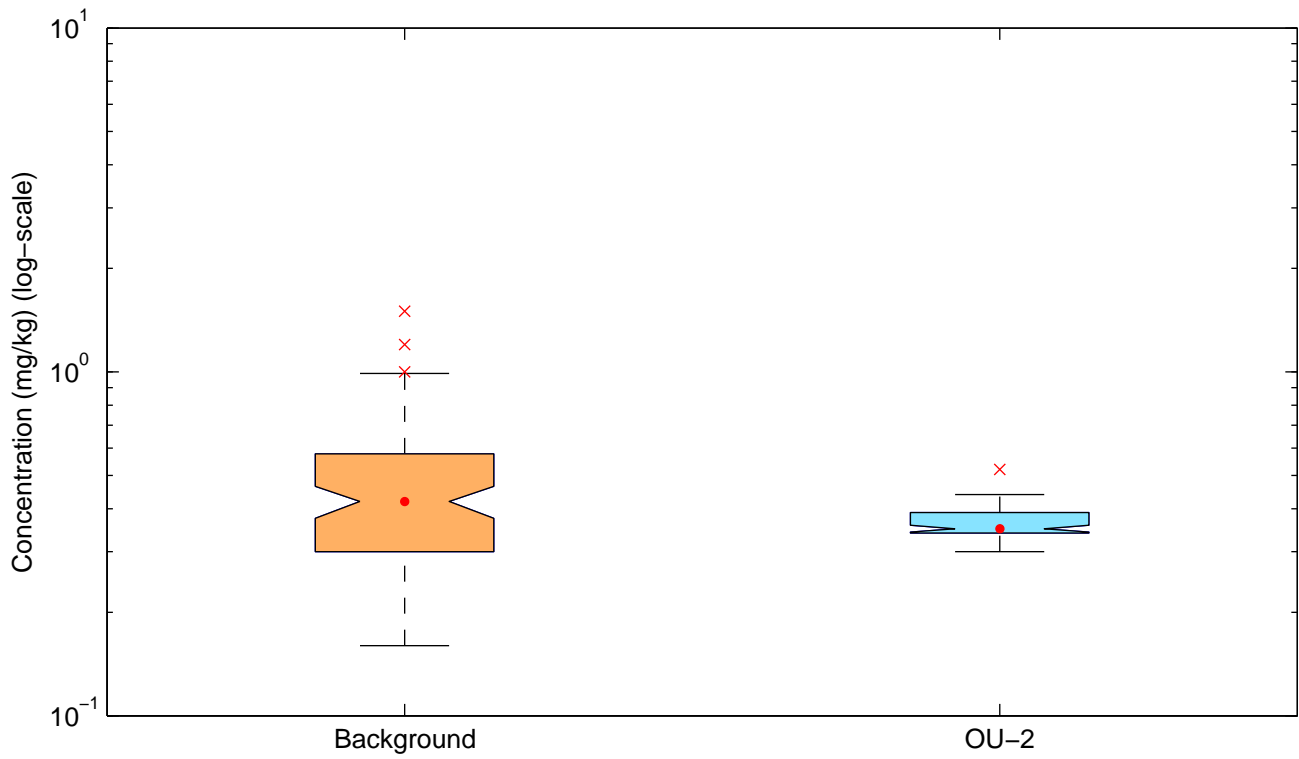
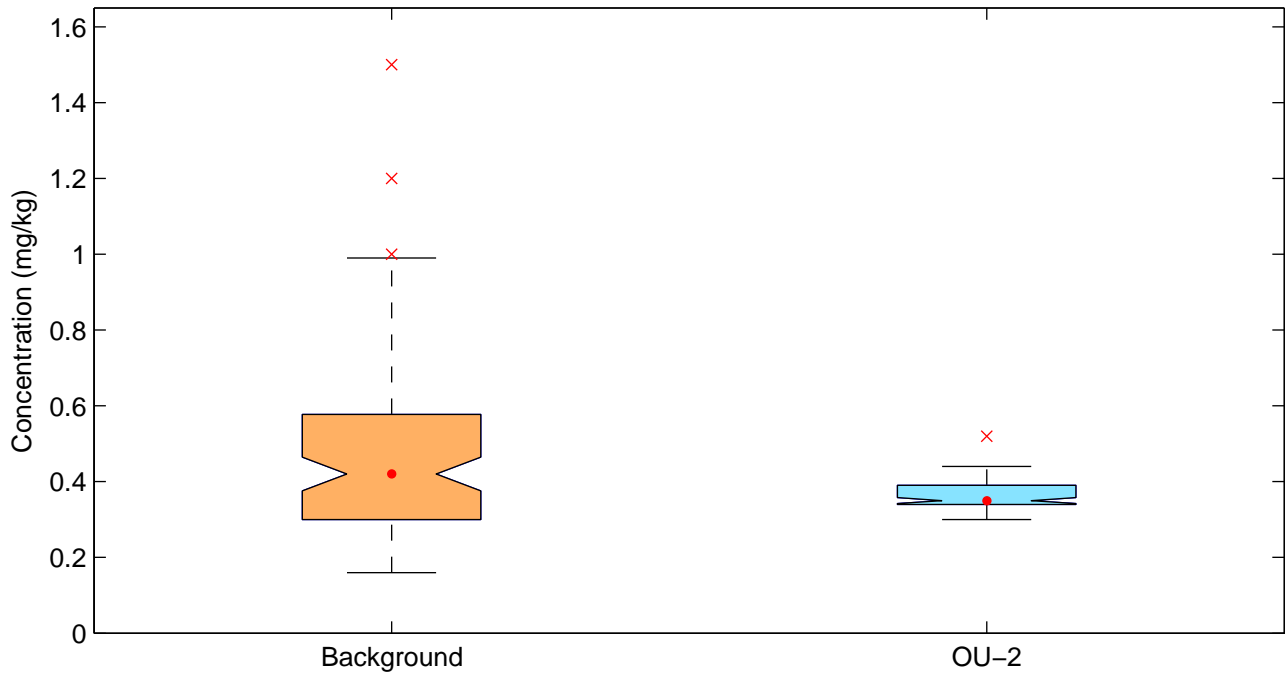


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Palladium



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Phosphorus (total)**

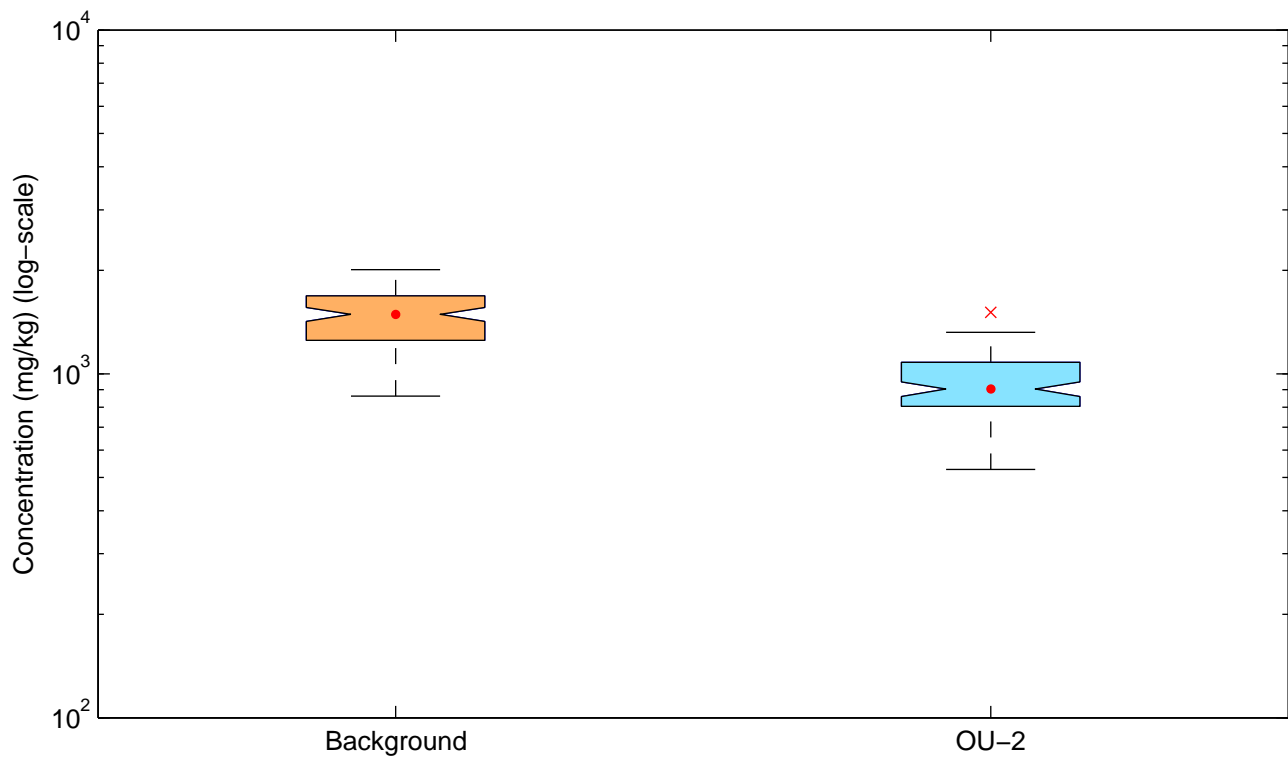
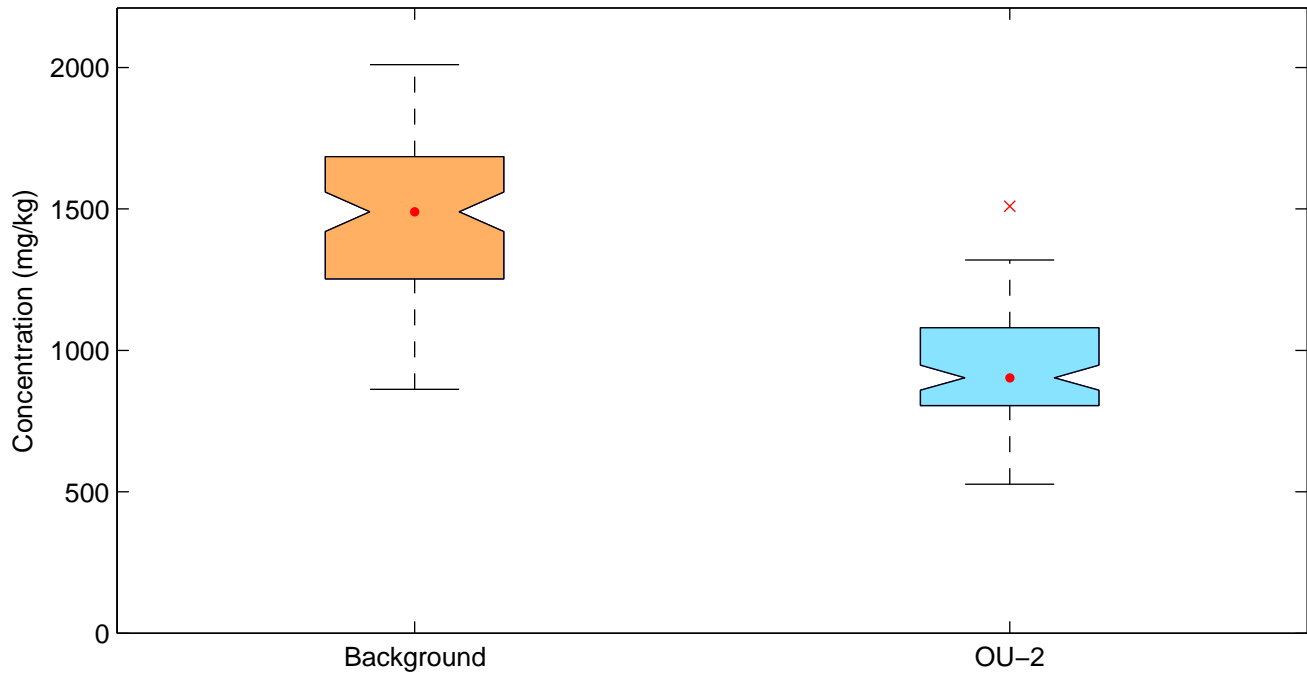


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Platinum

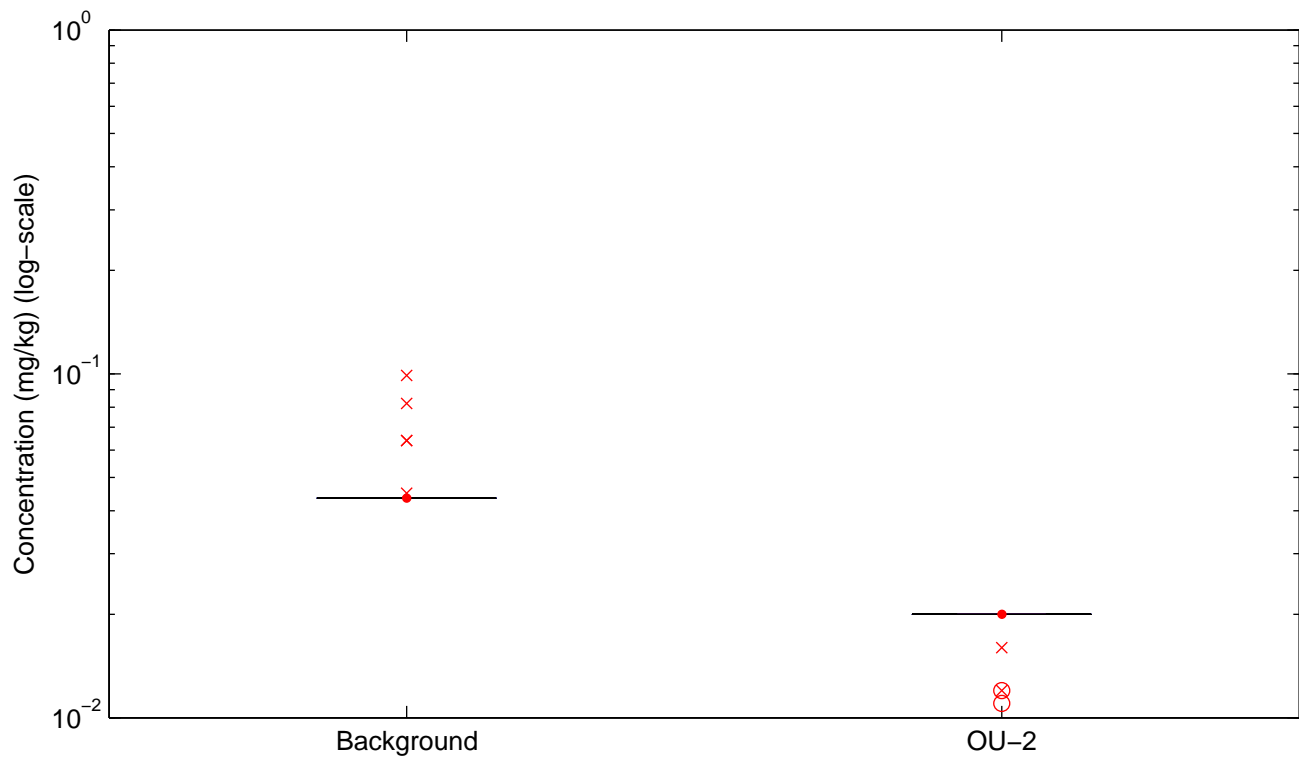
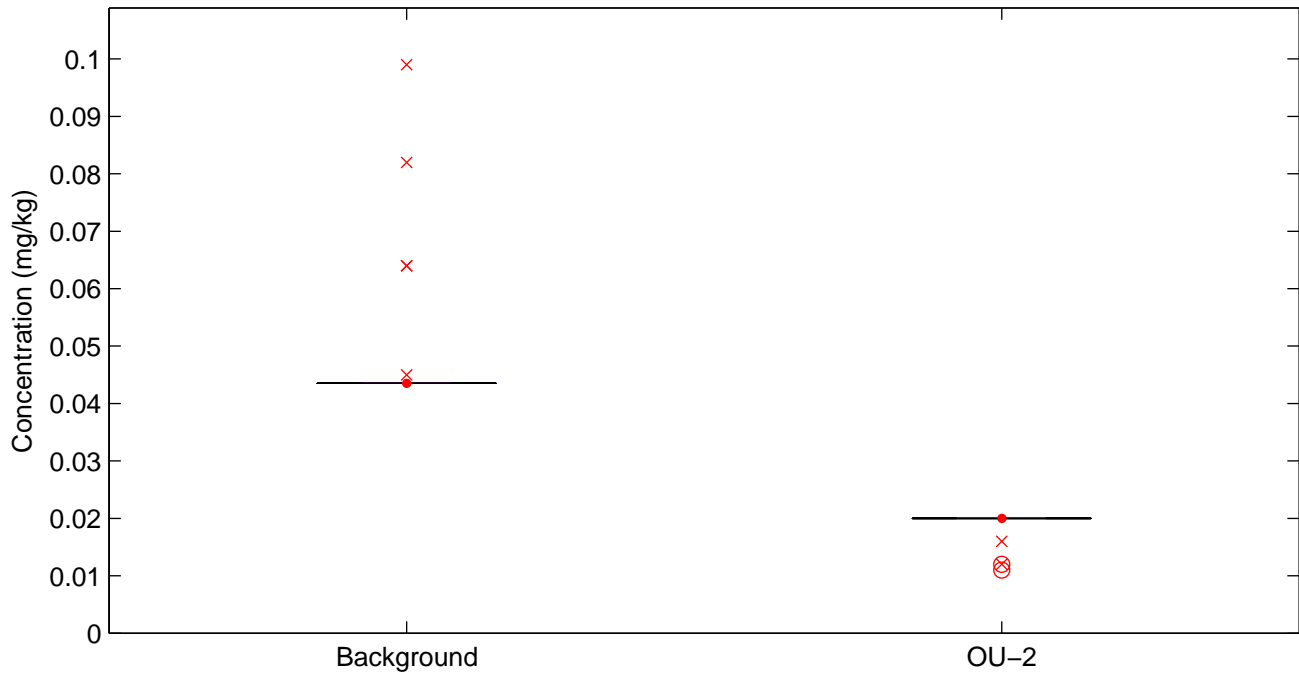


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Potassium

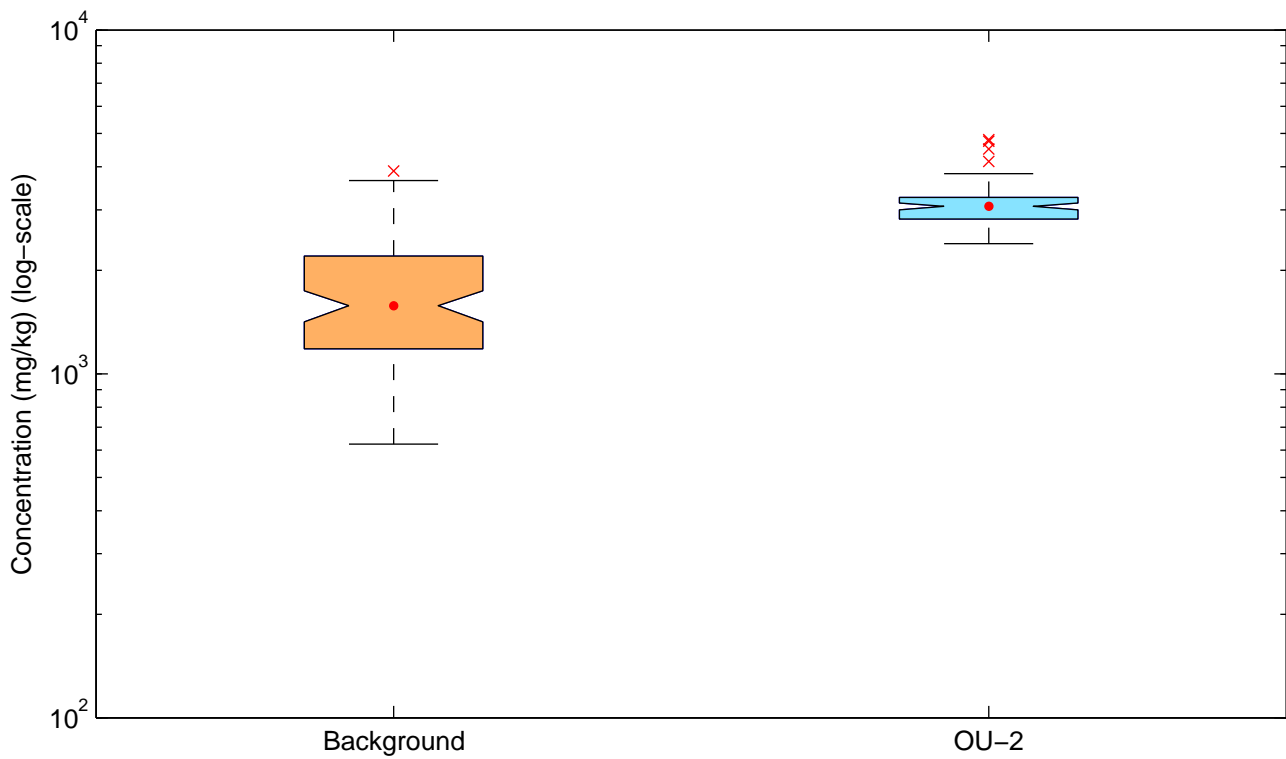
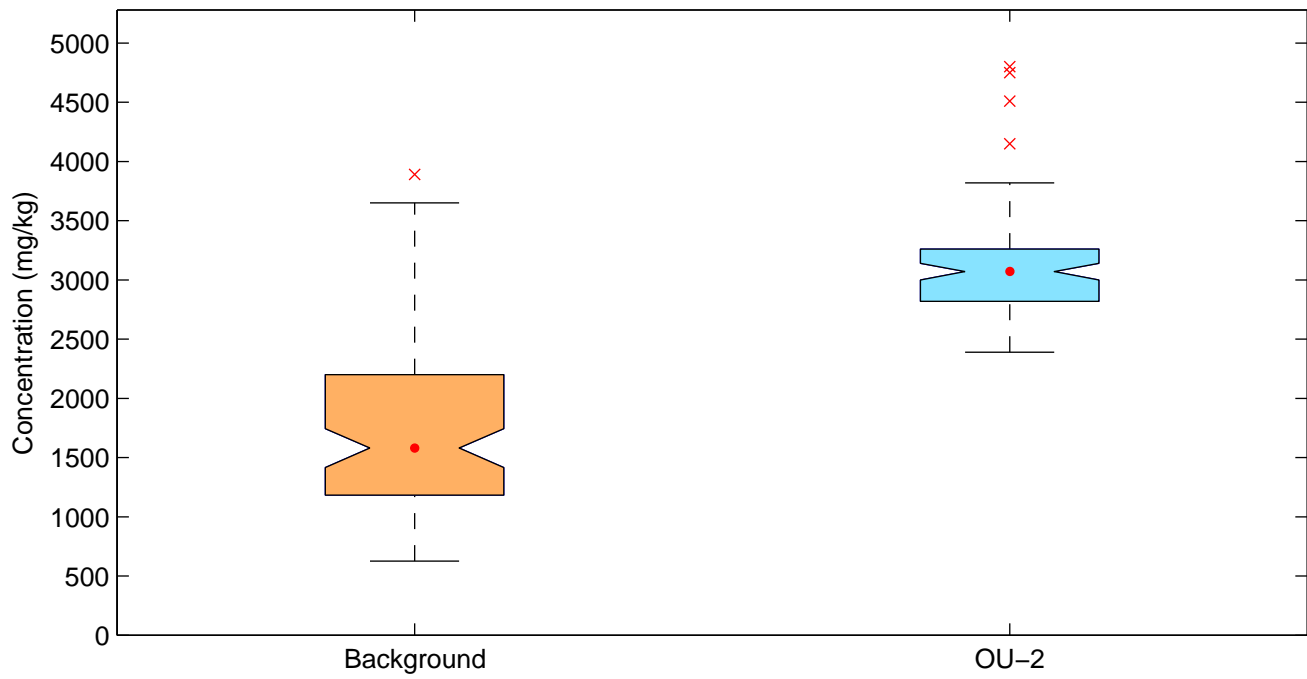


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Selenium

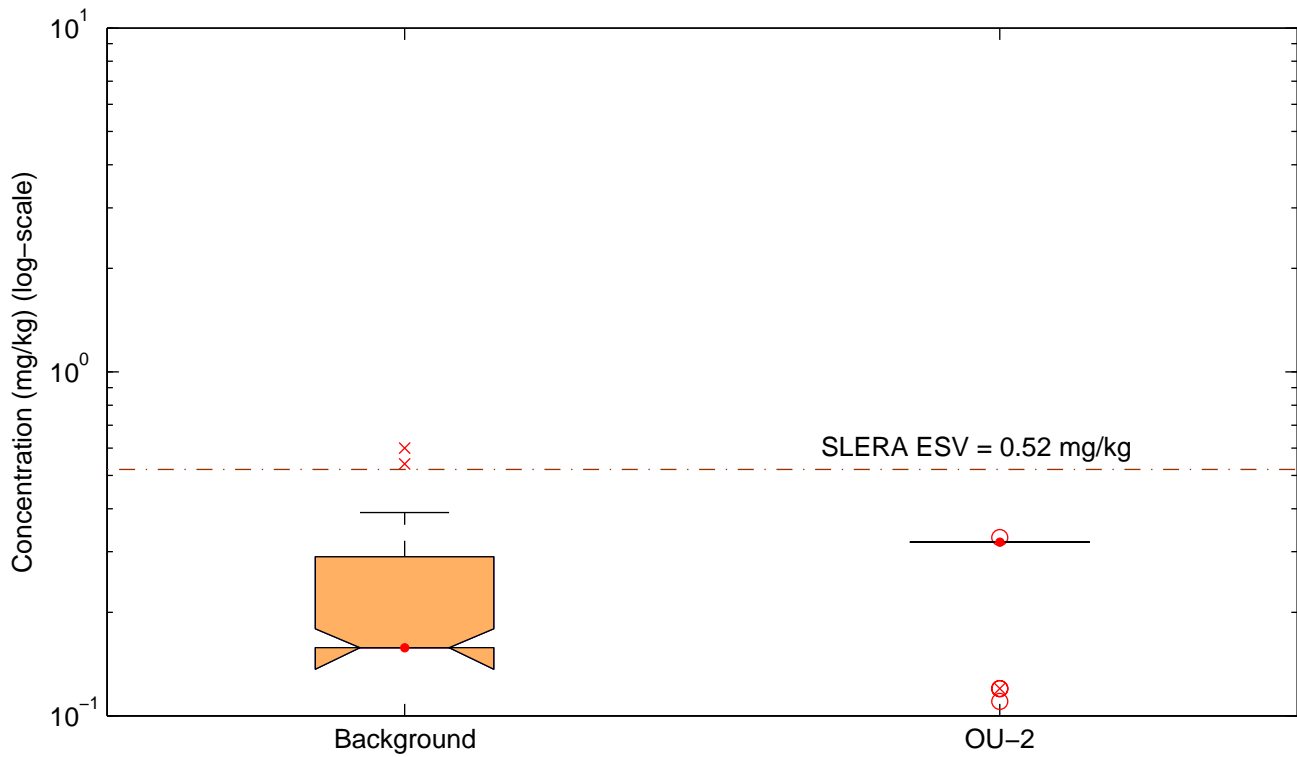
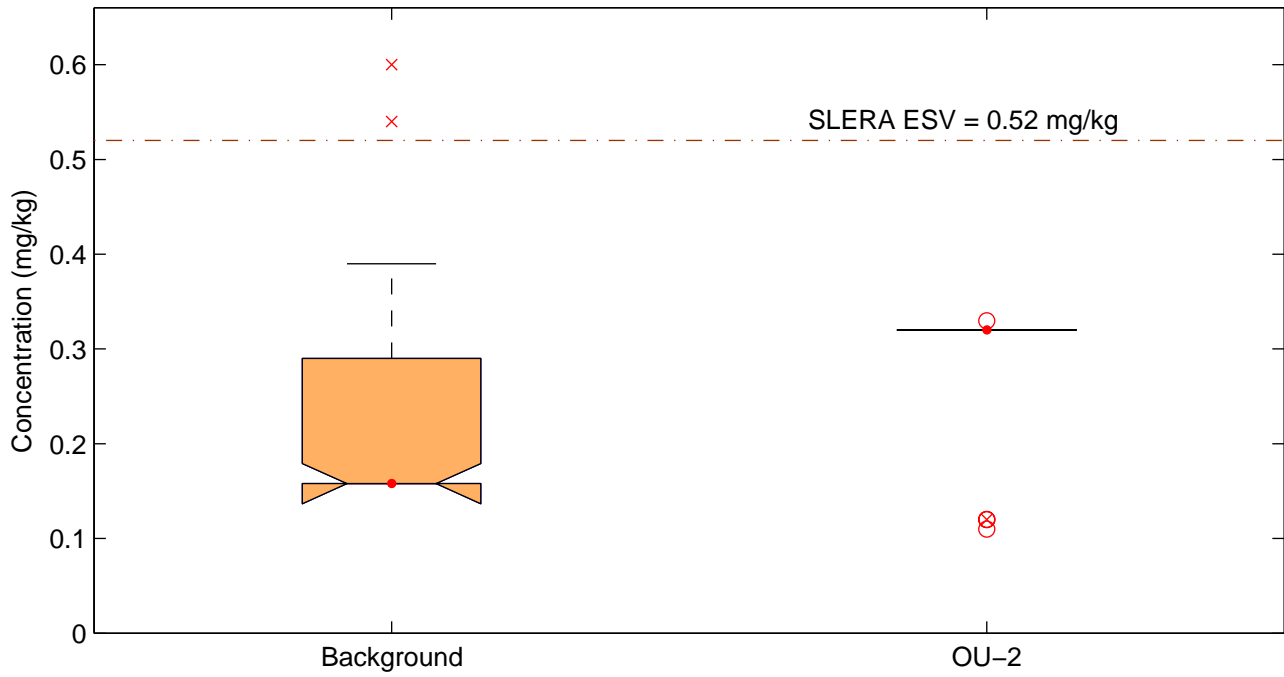


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Silicon

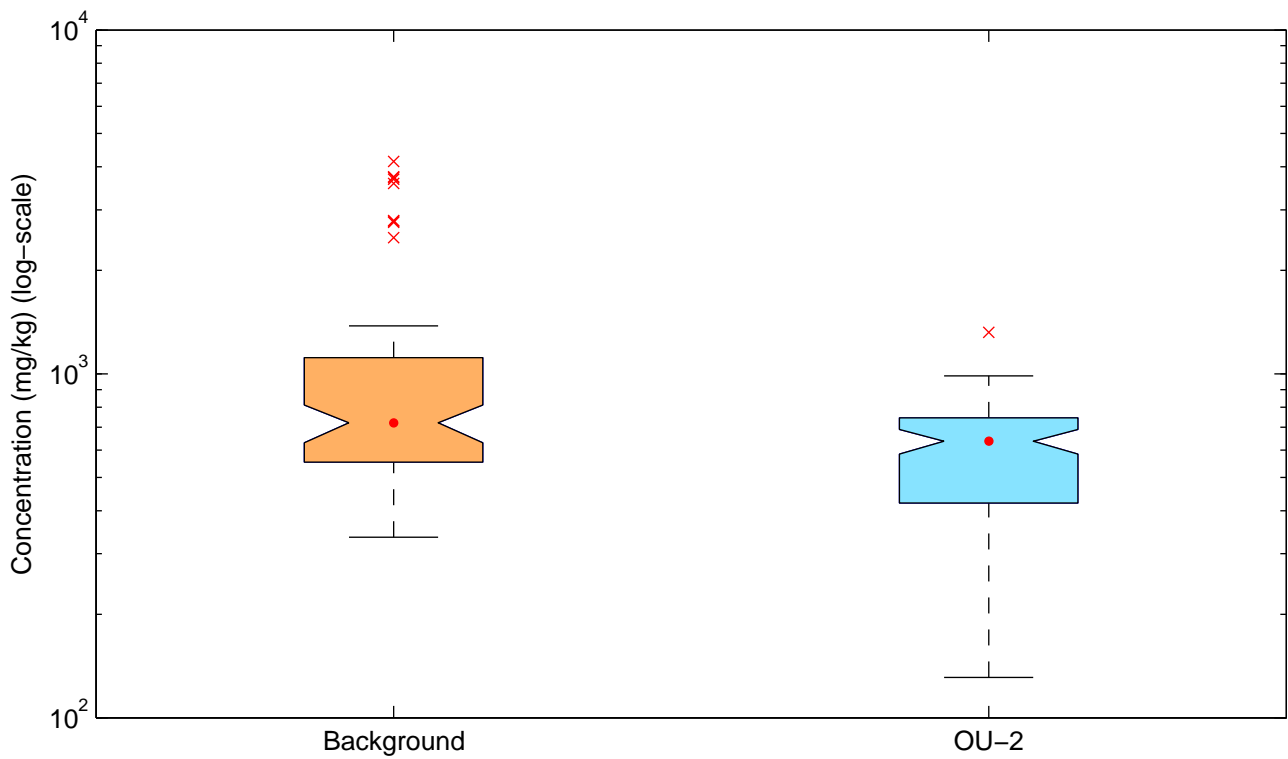
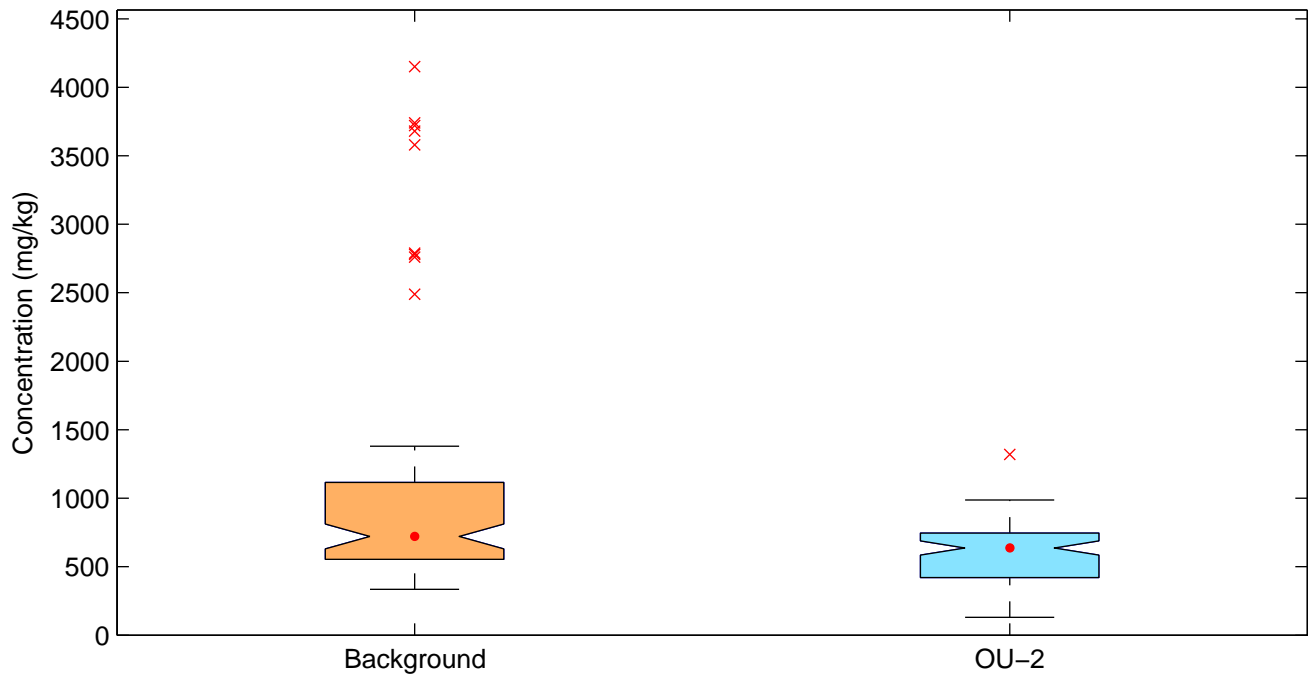


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Silver

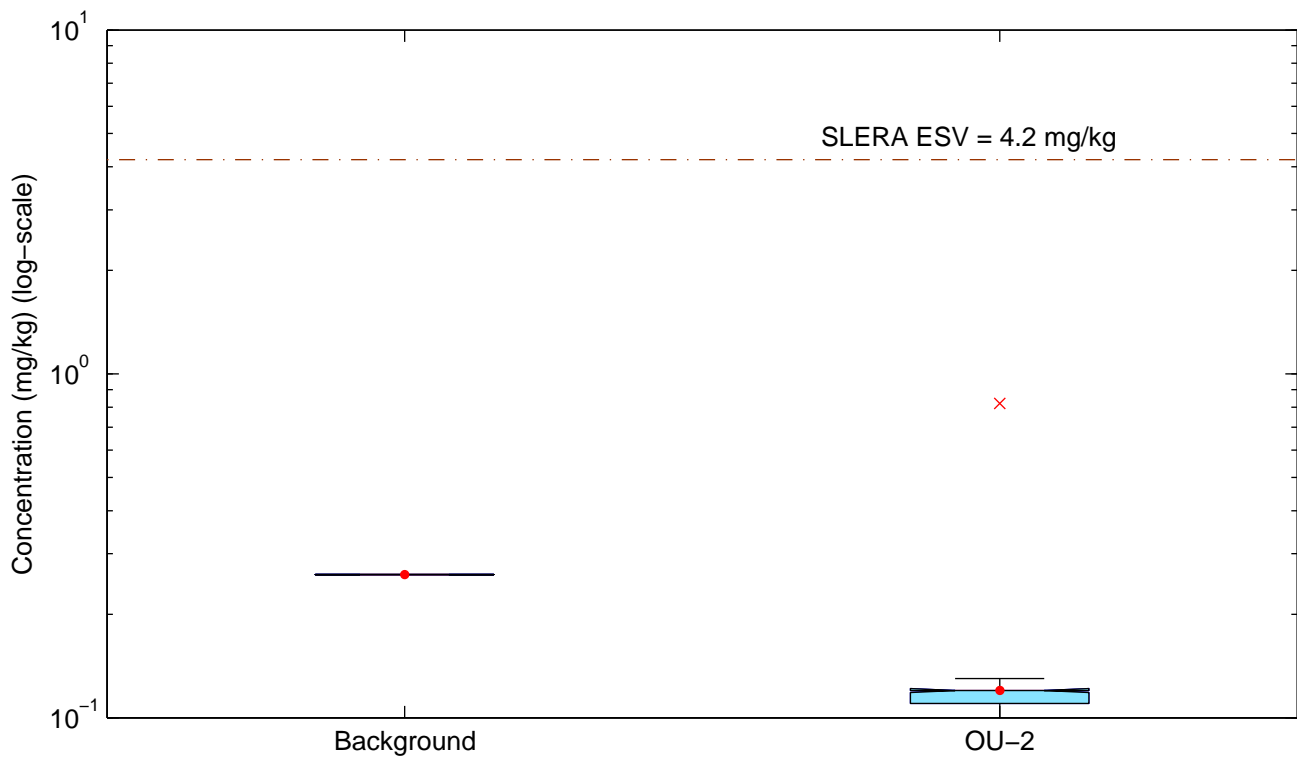
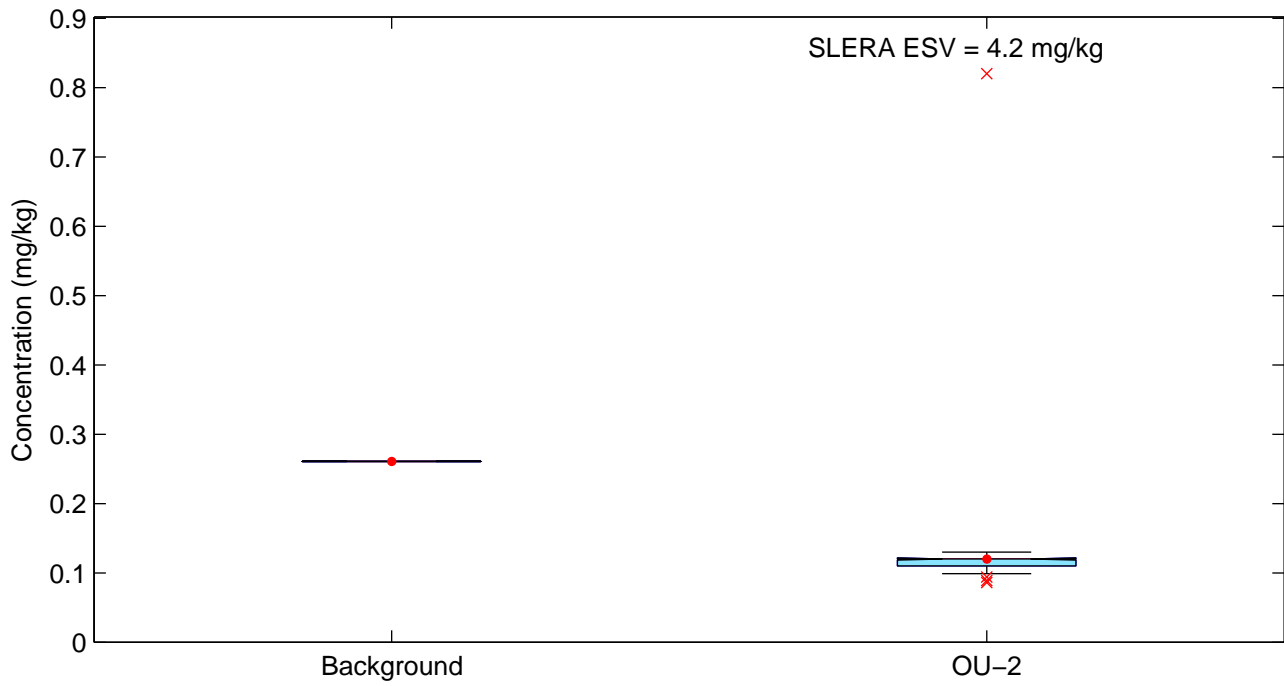
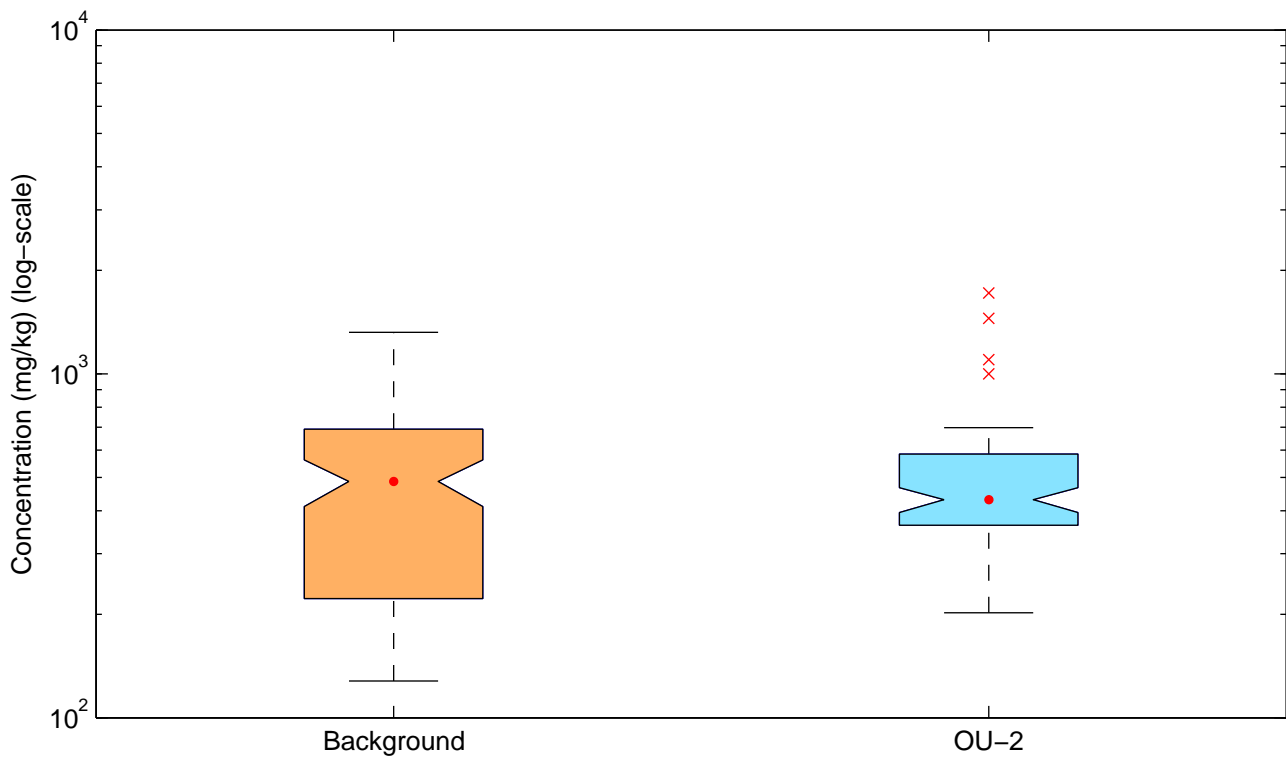
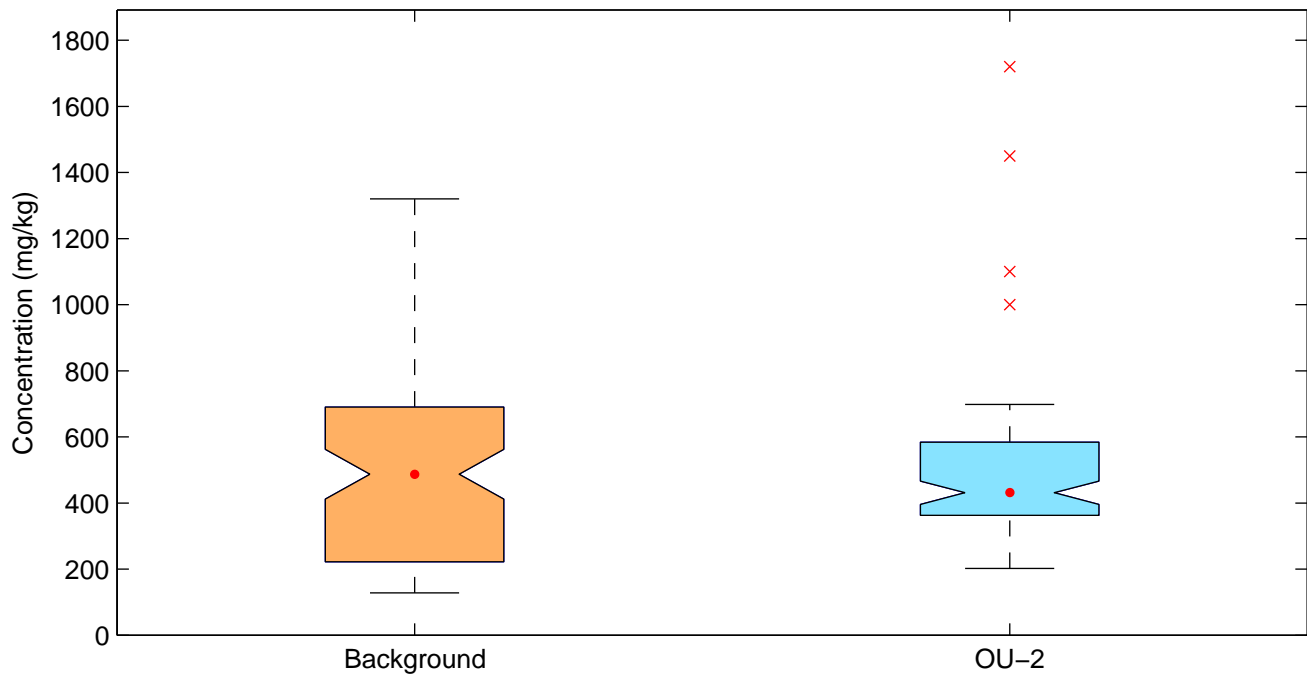


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Sodium



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Strontium**

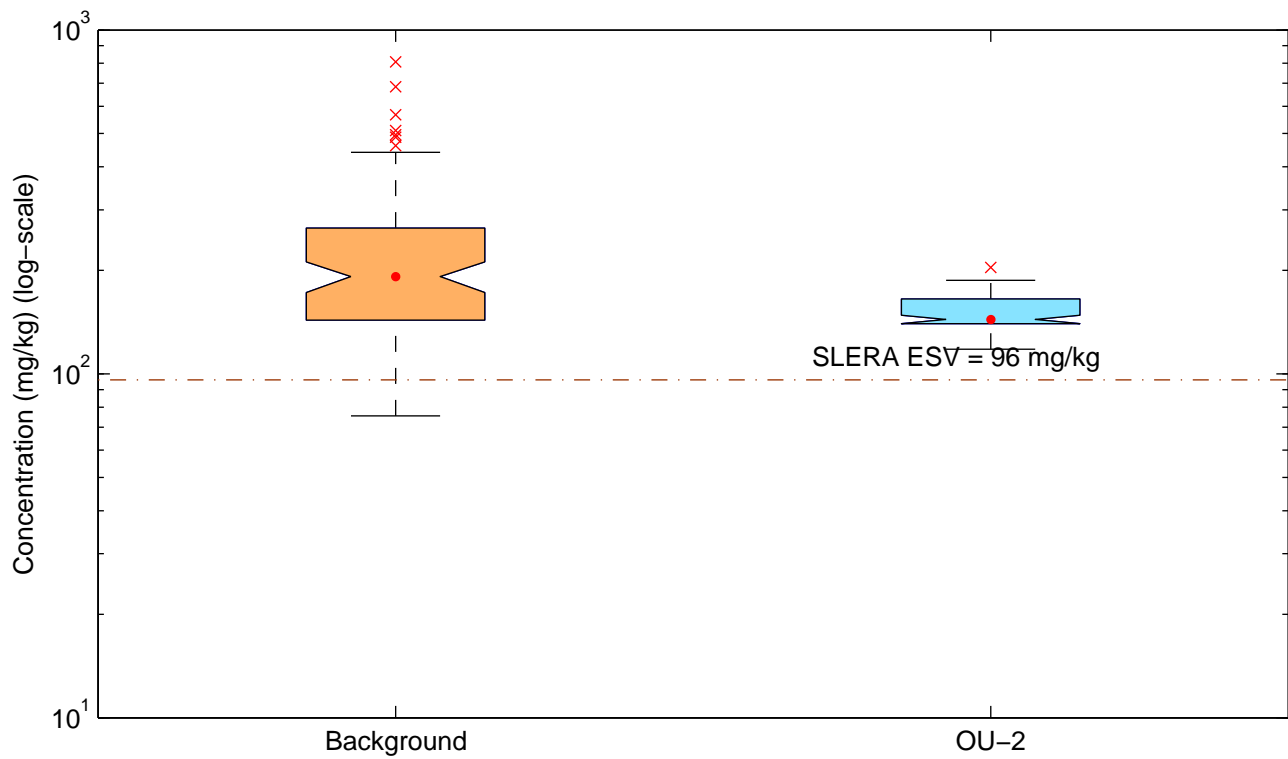
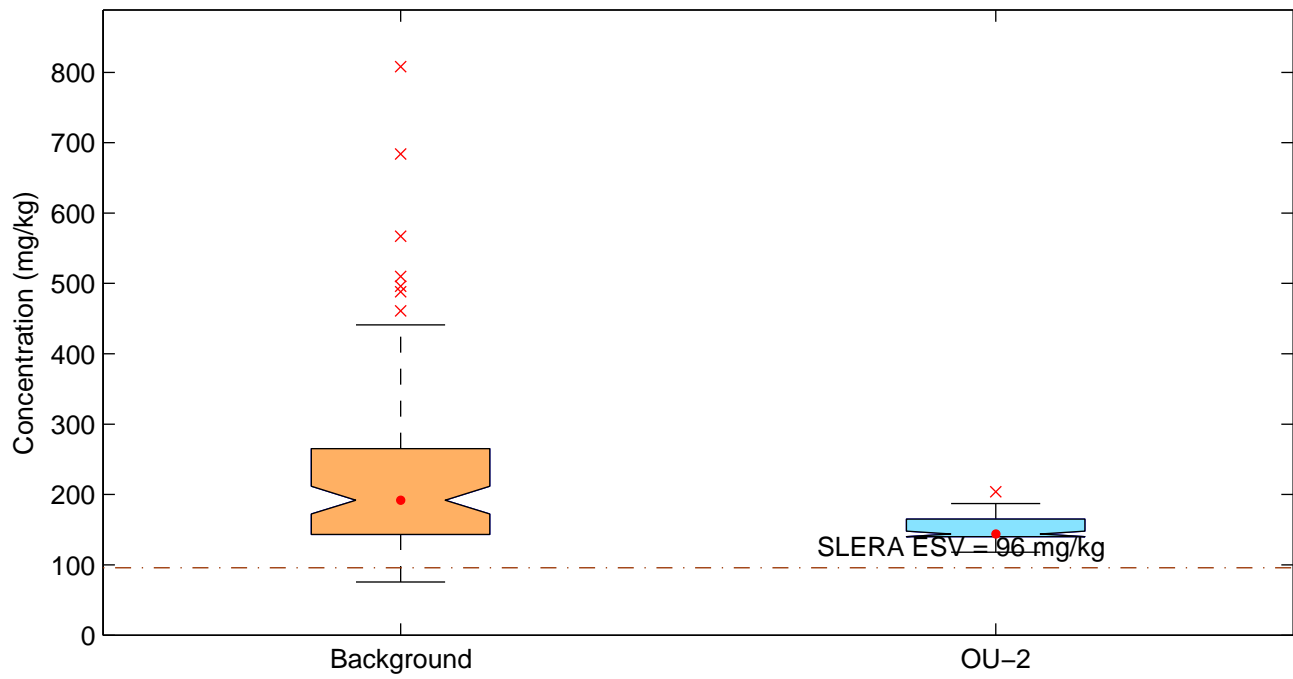


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Thallium

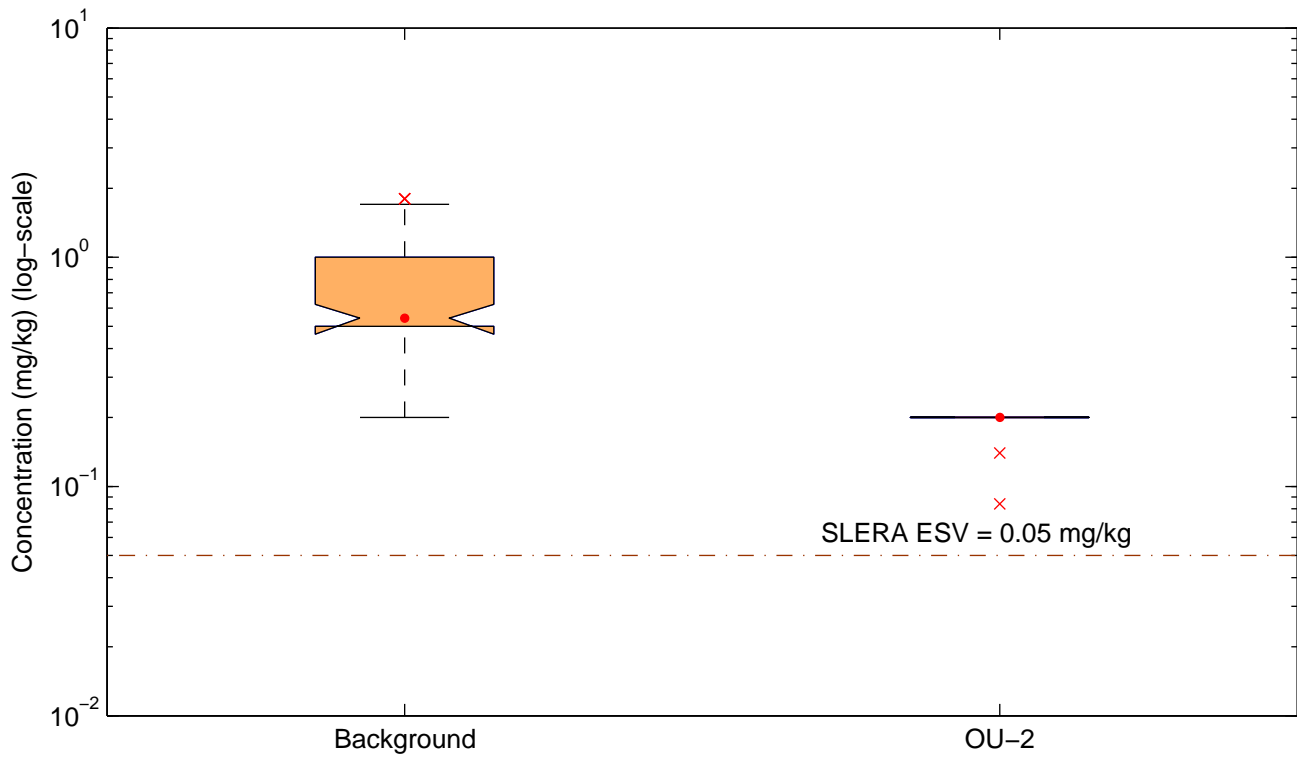
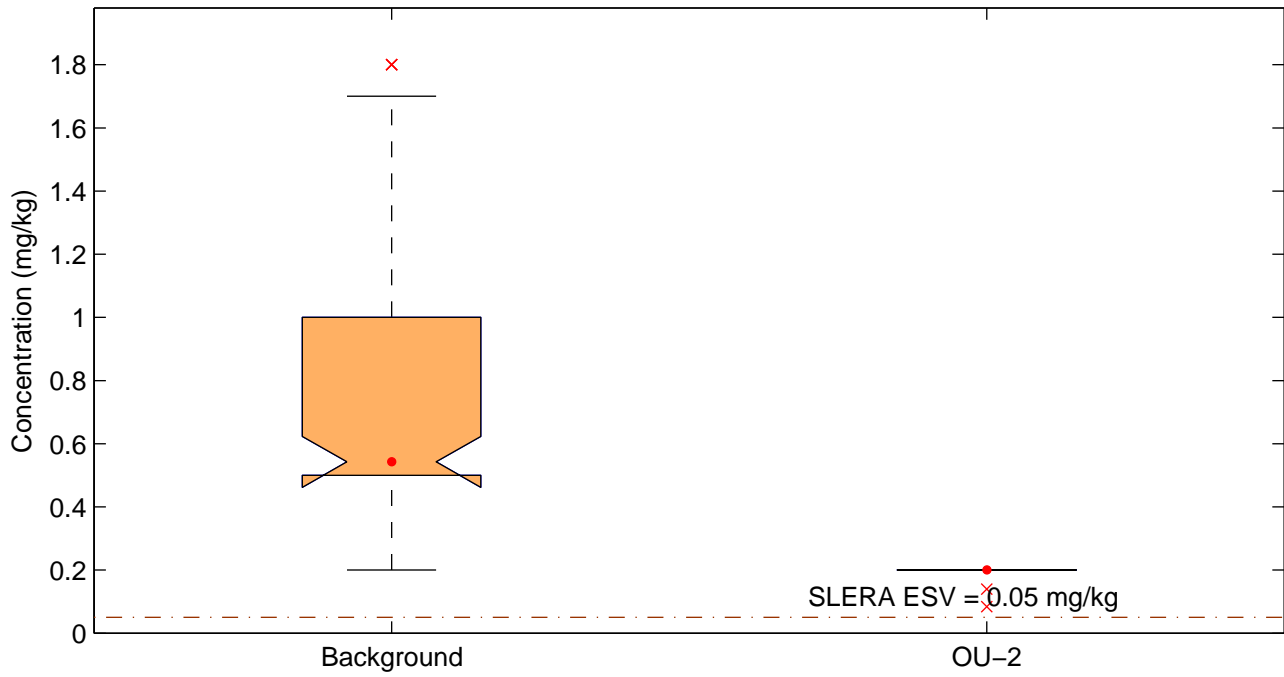
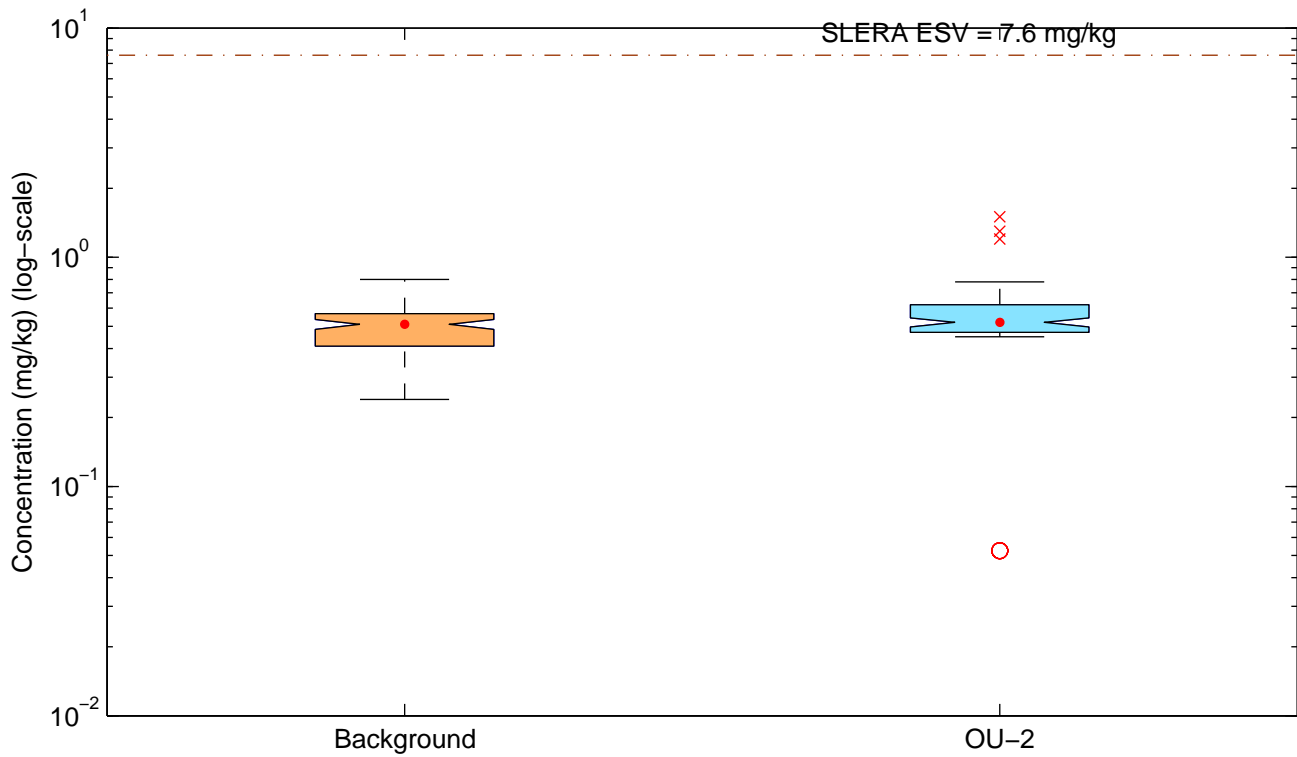
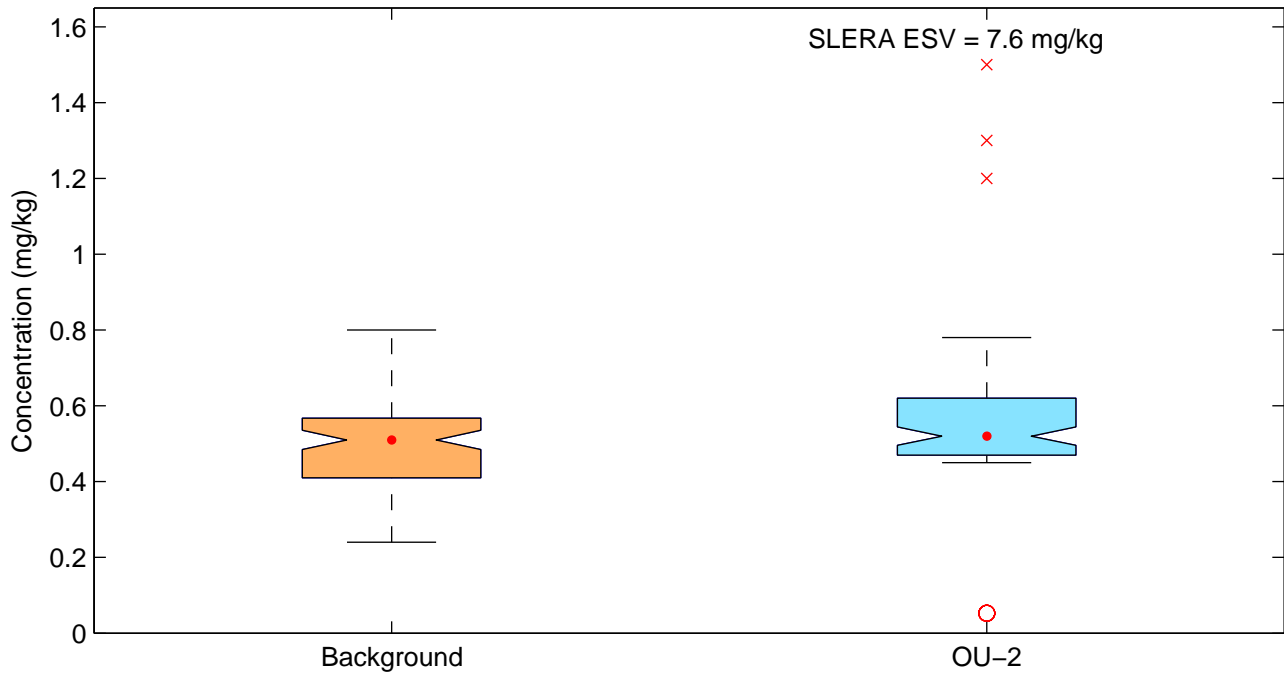


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Tin



**Figure D-2a. Background vs. OU-2 Boxplots for Metals
Titanium**

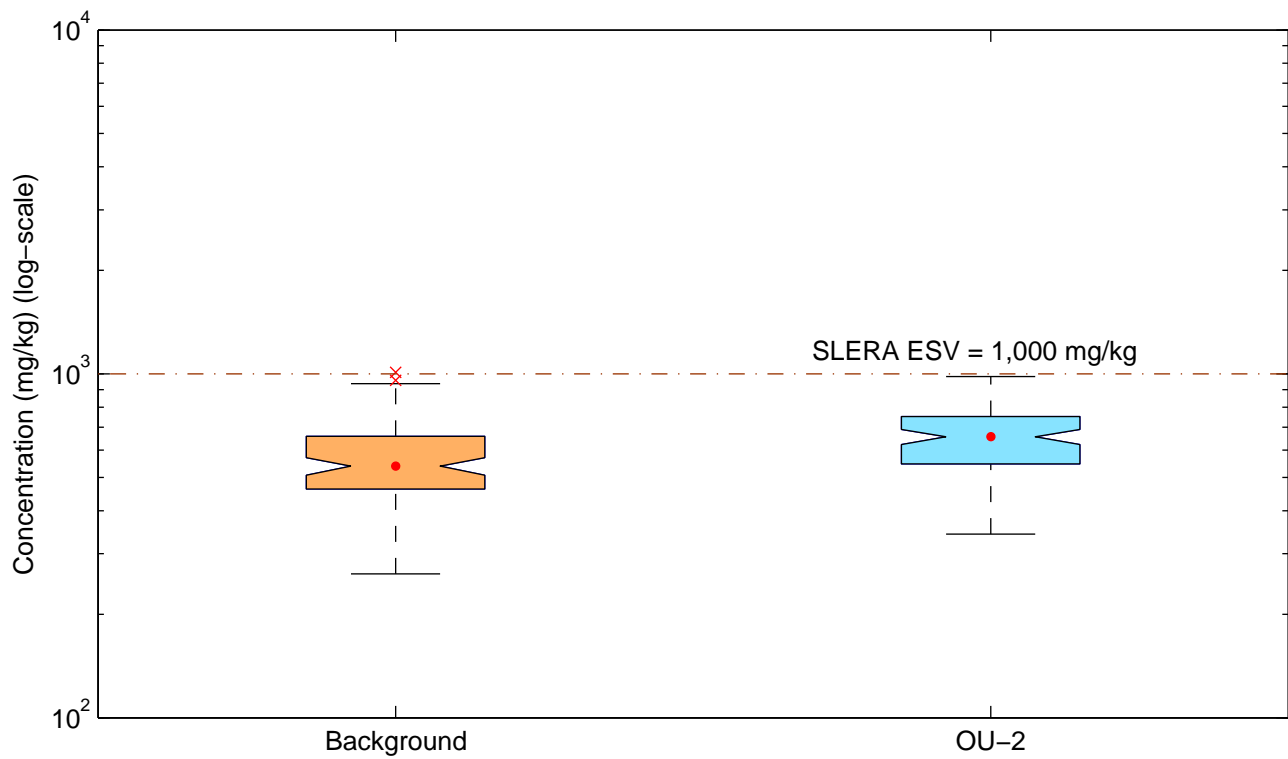
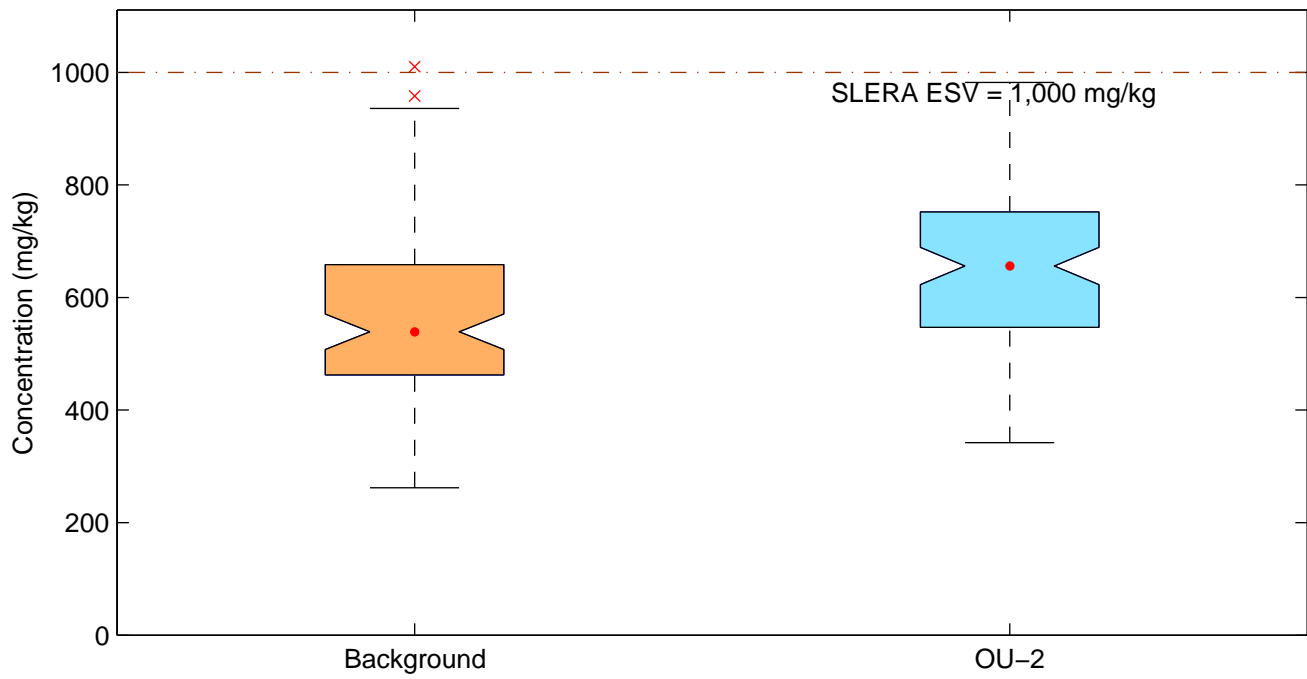


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Tungsten

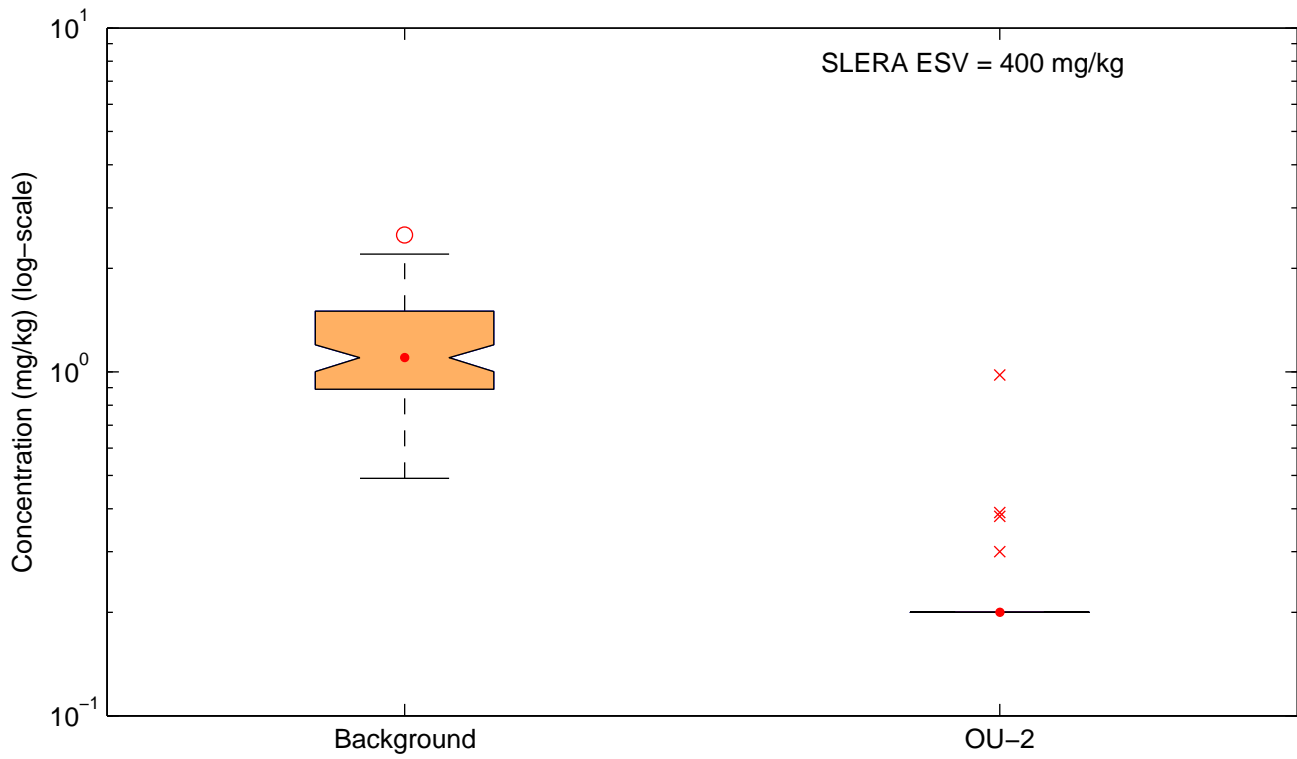
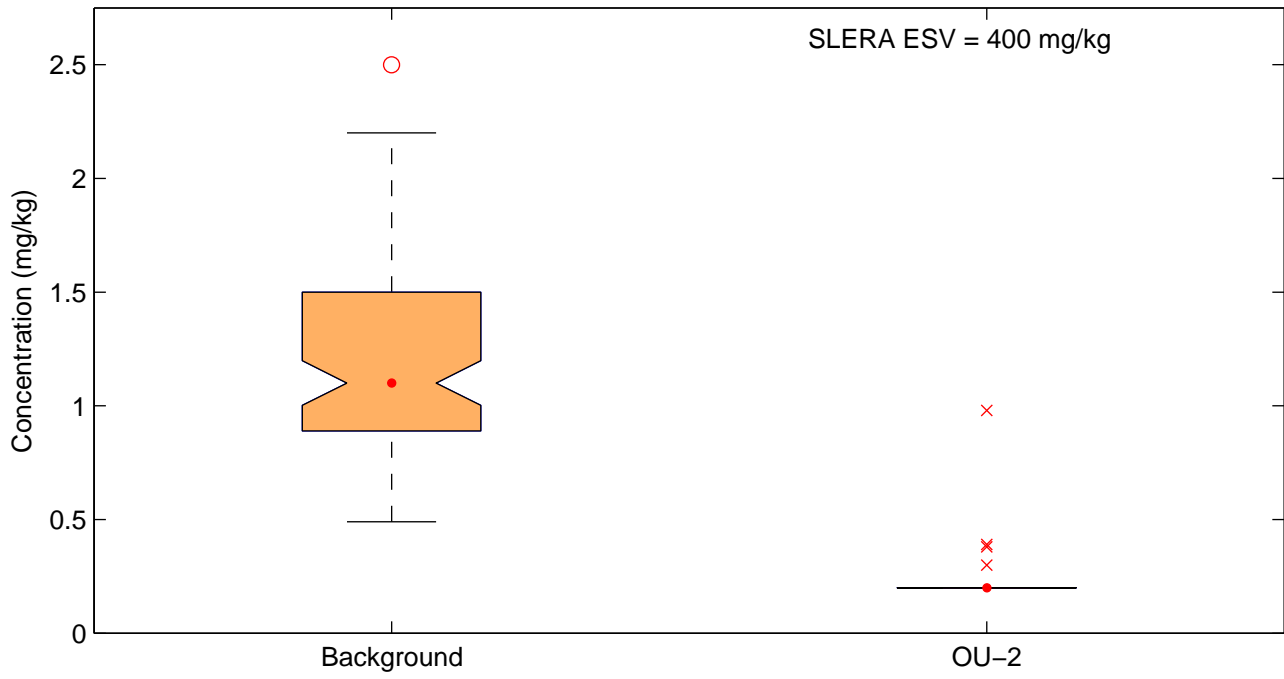


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Uranium (total)

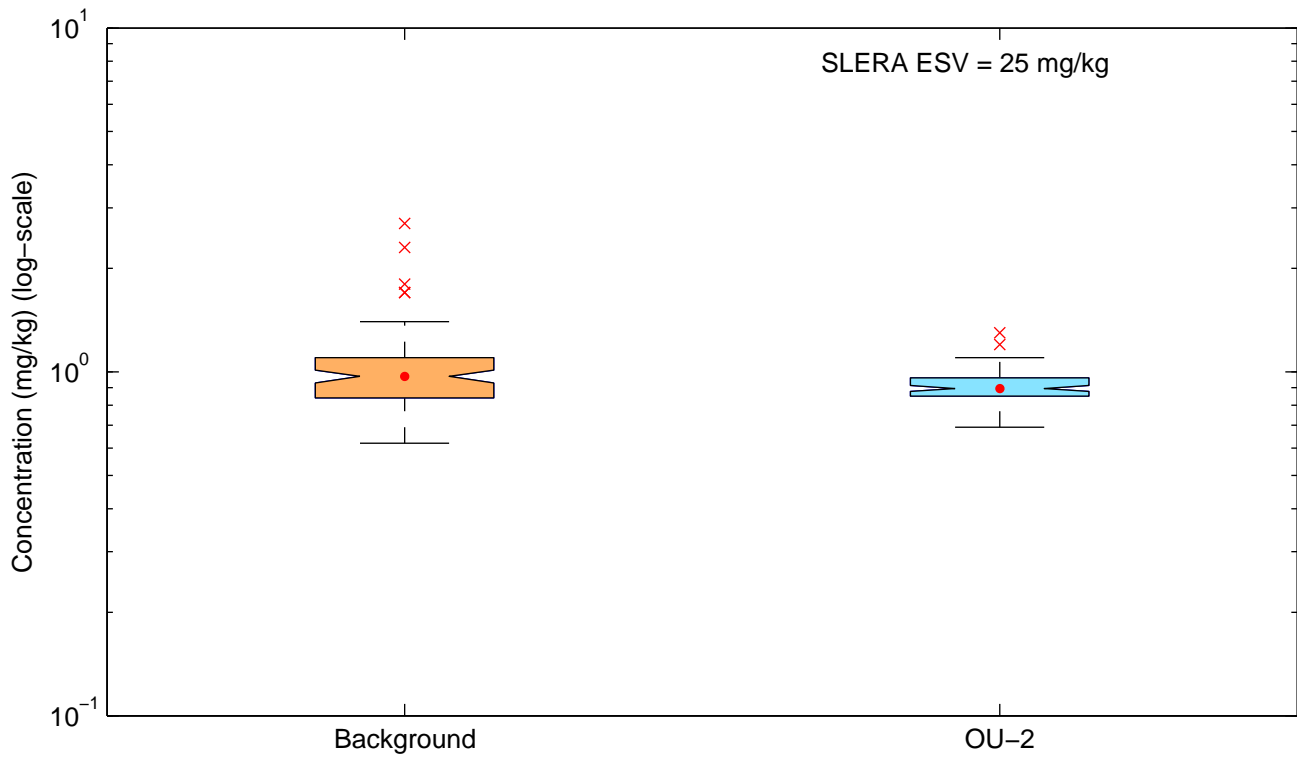
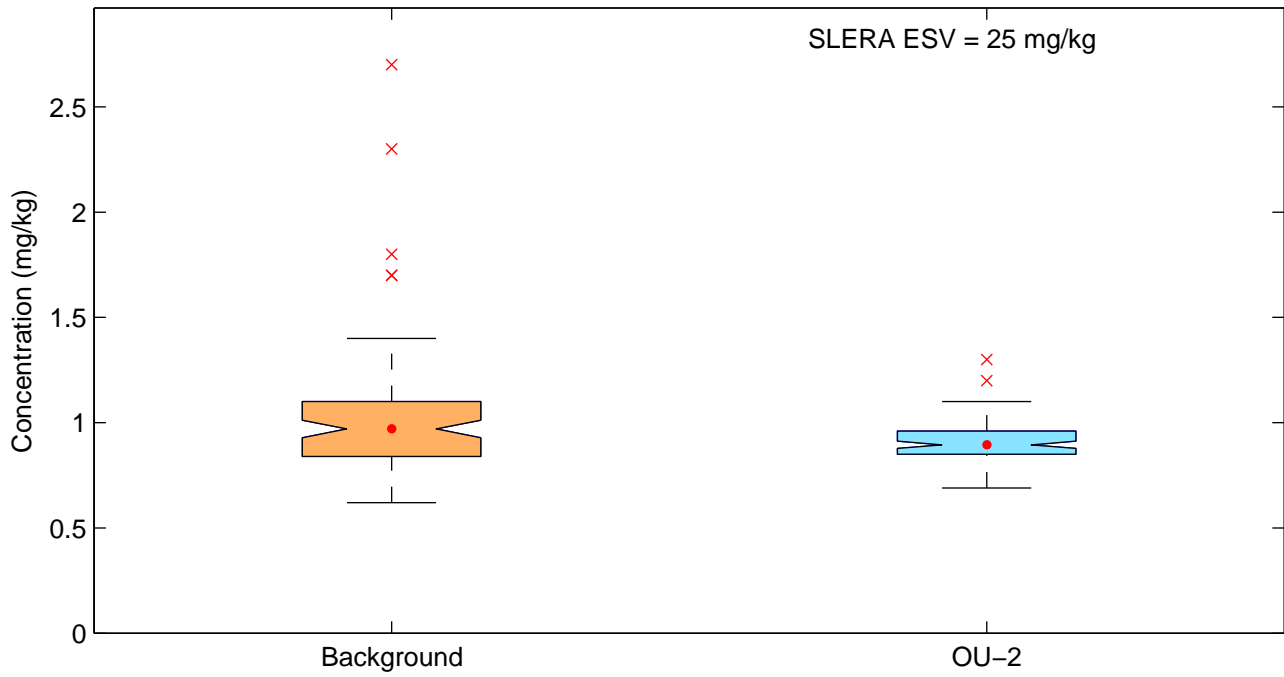


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Vanadium

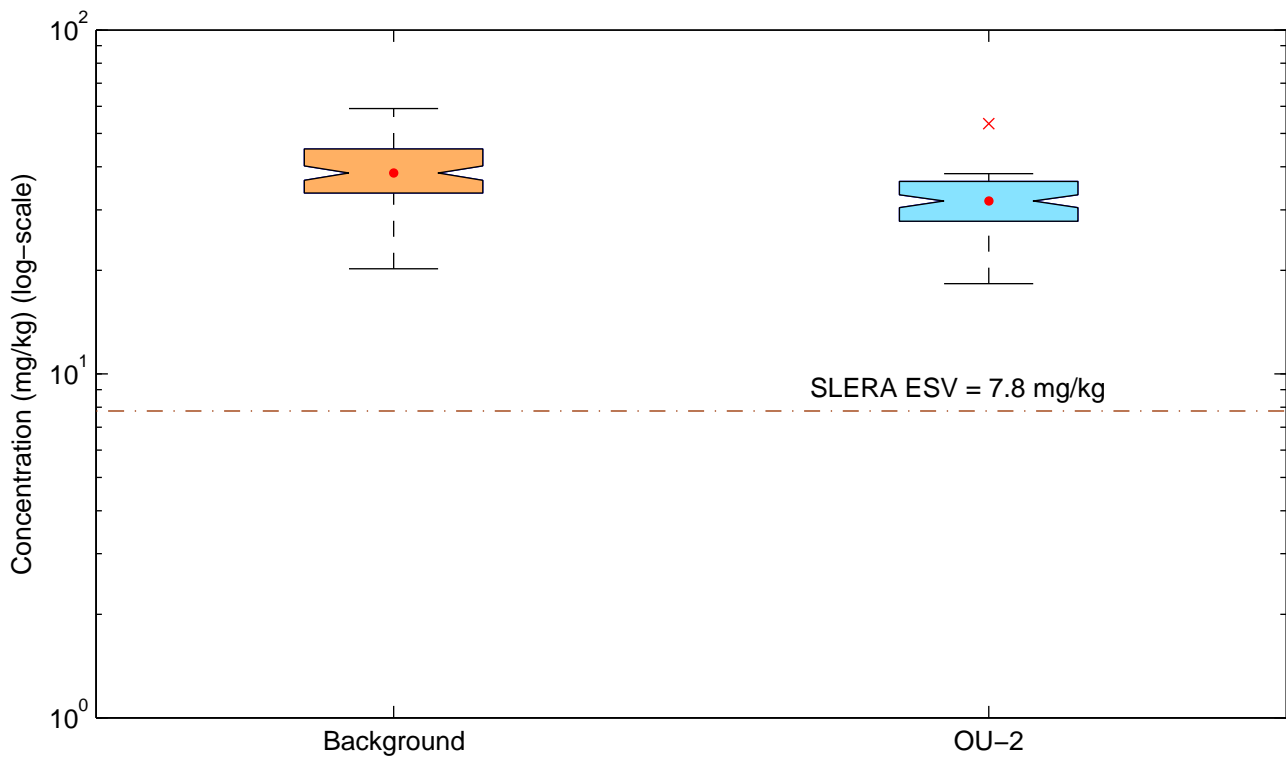
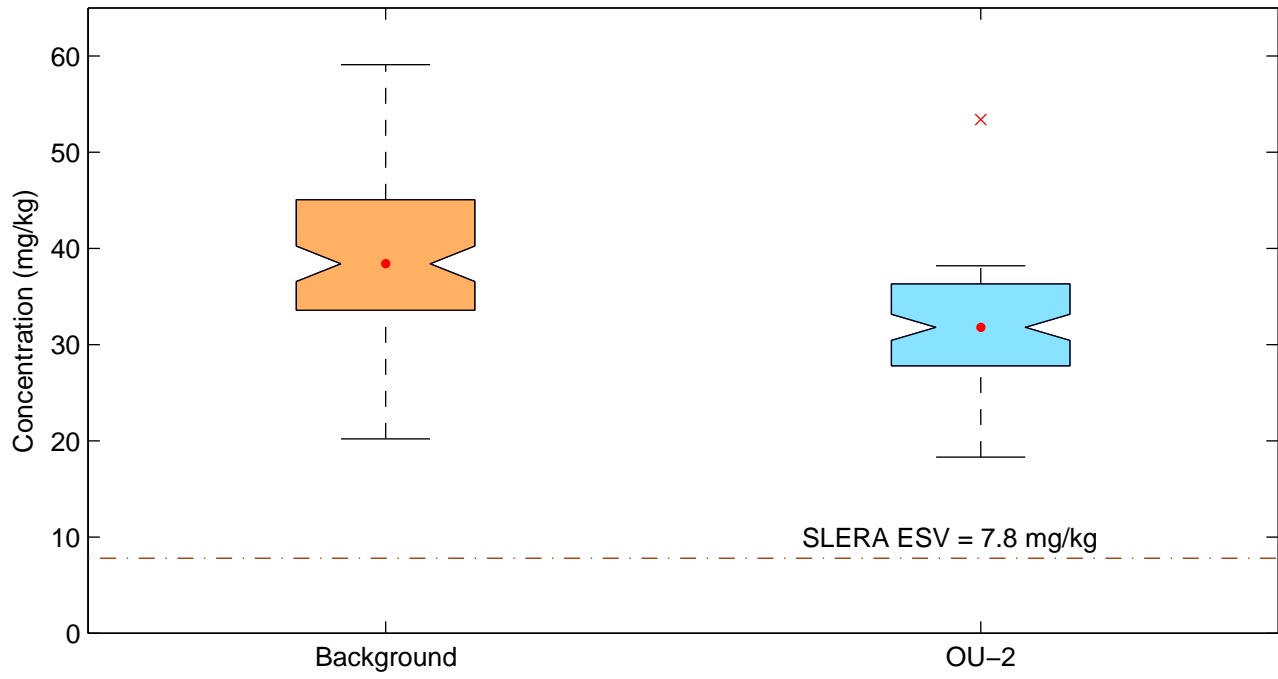


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Zinc

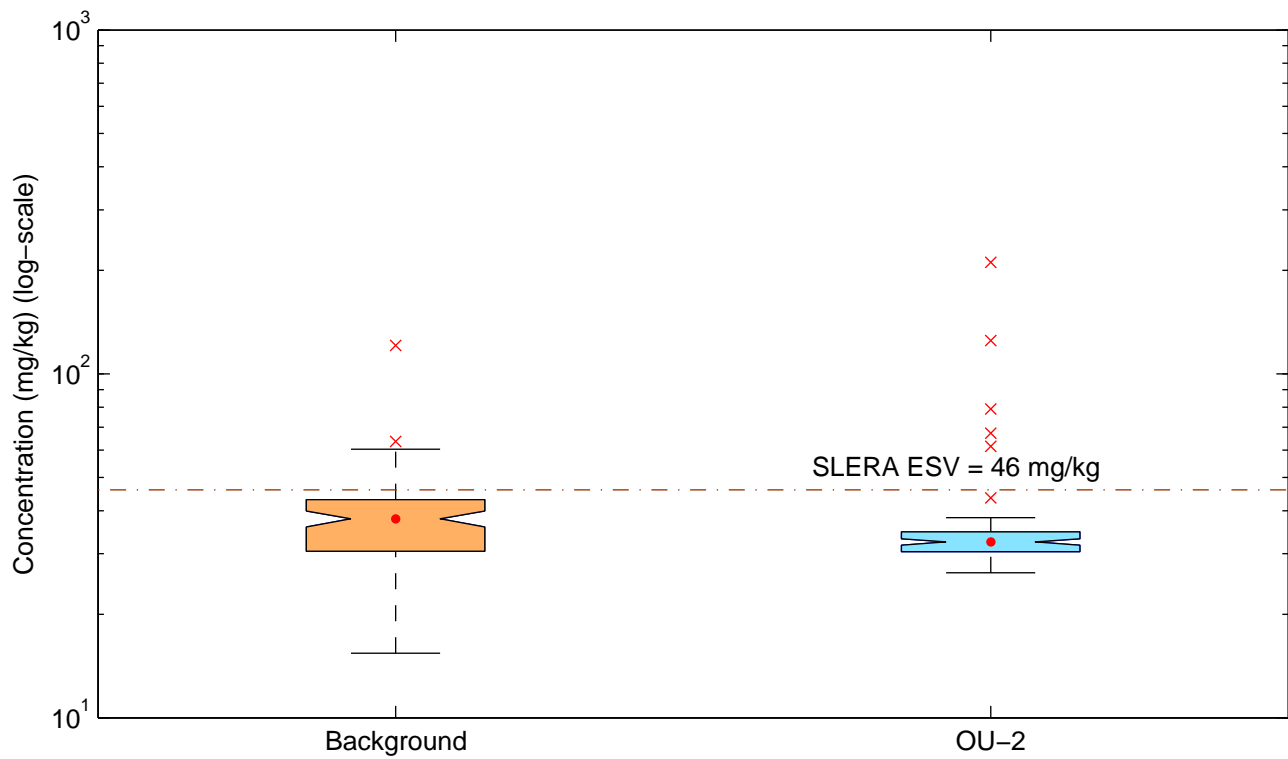
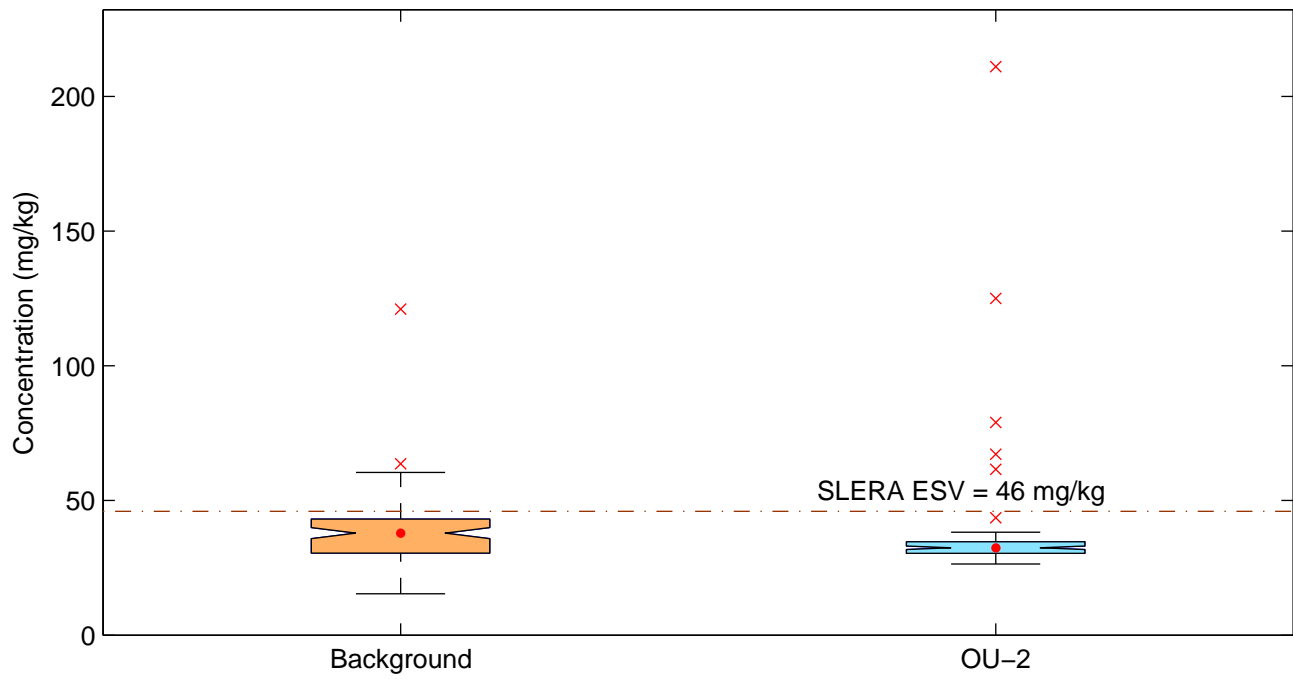


Figure D-2a. Background vs. OU-2 Boxplots for Metals
Zirconium

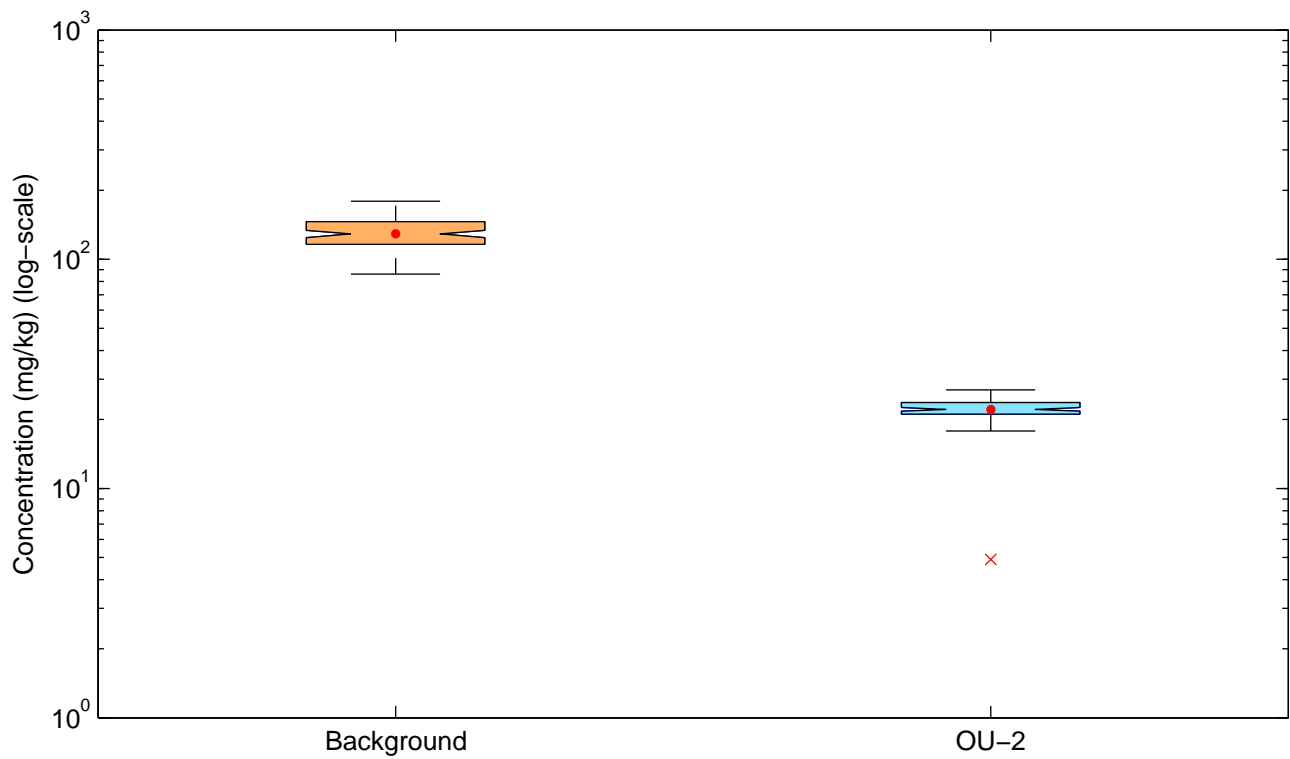
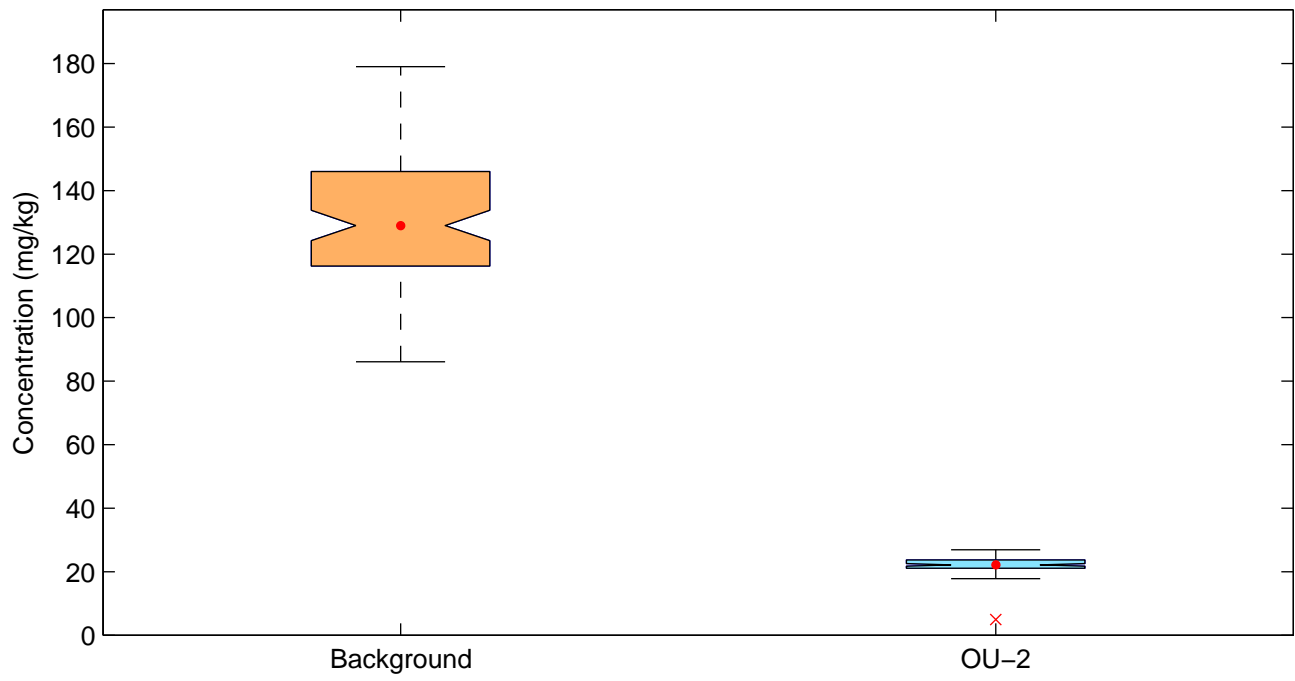


Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides Uranium-238

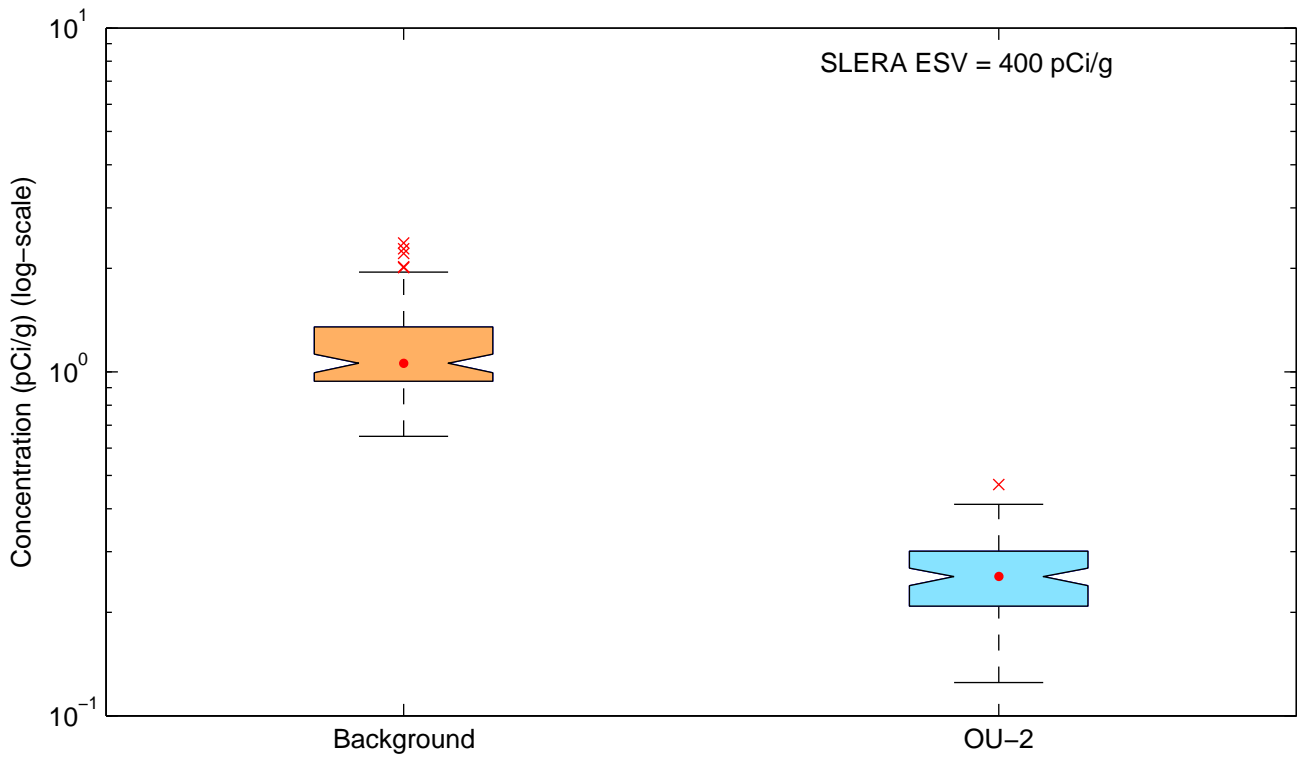
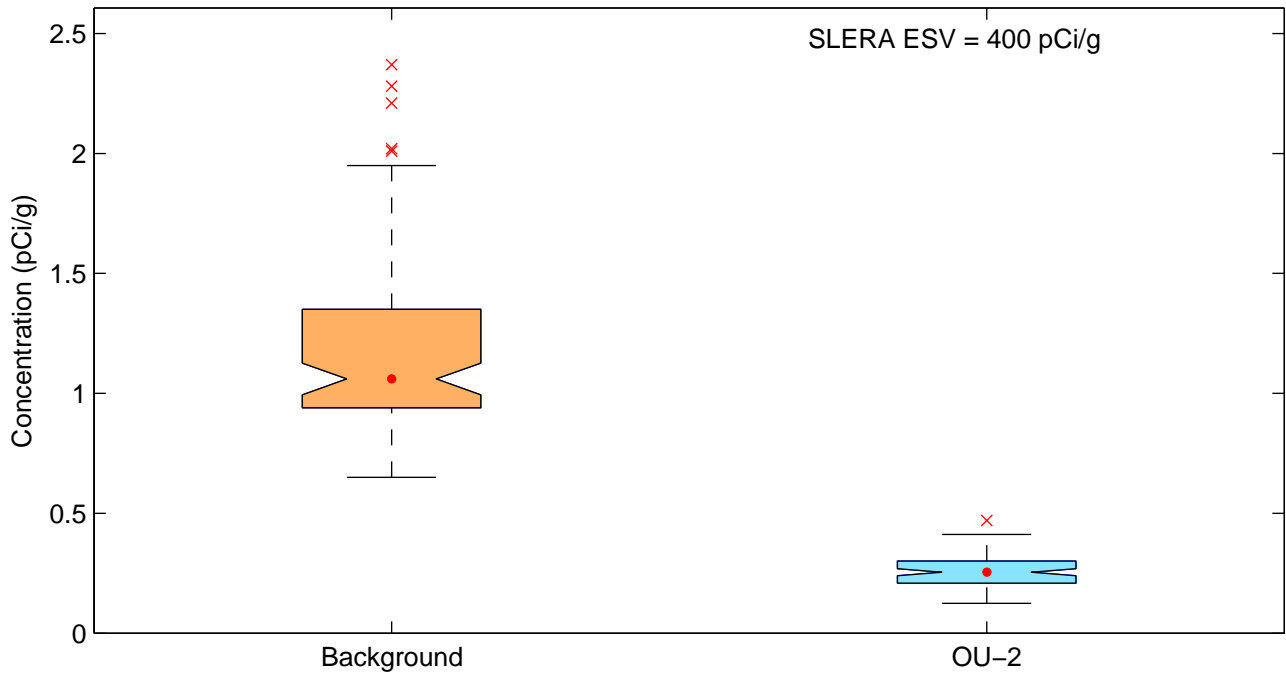
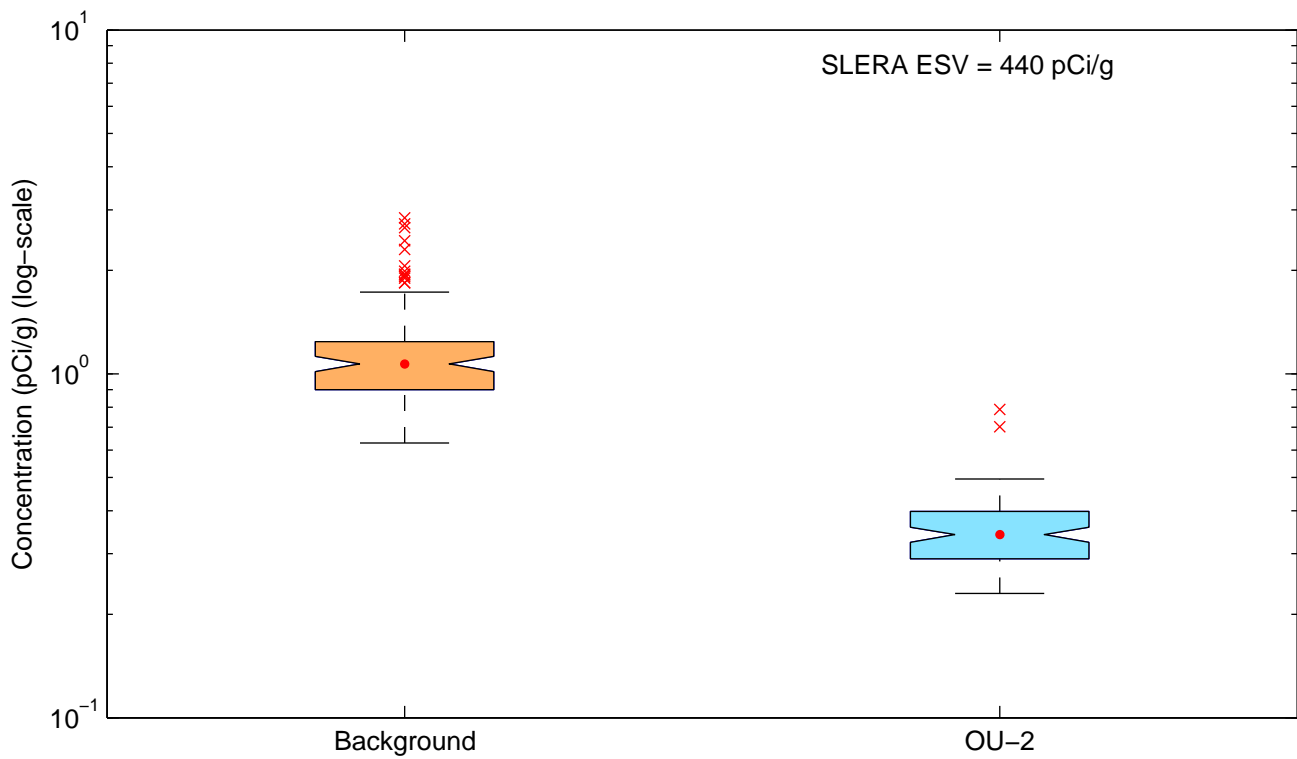
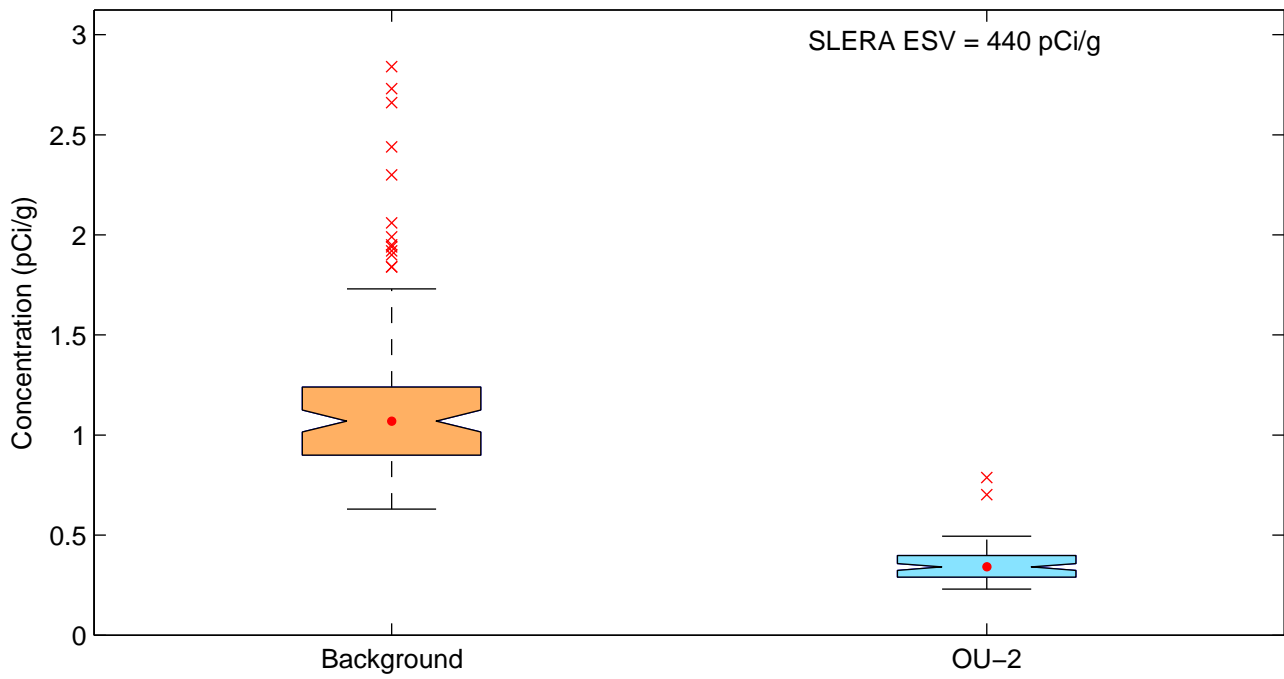


Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides Uranium-234



**Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides
Thorium-230**

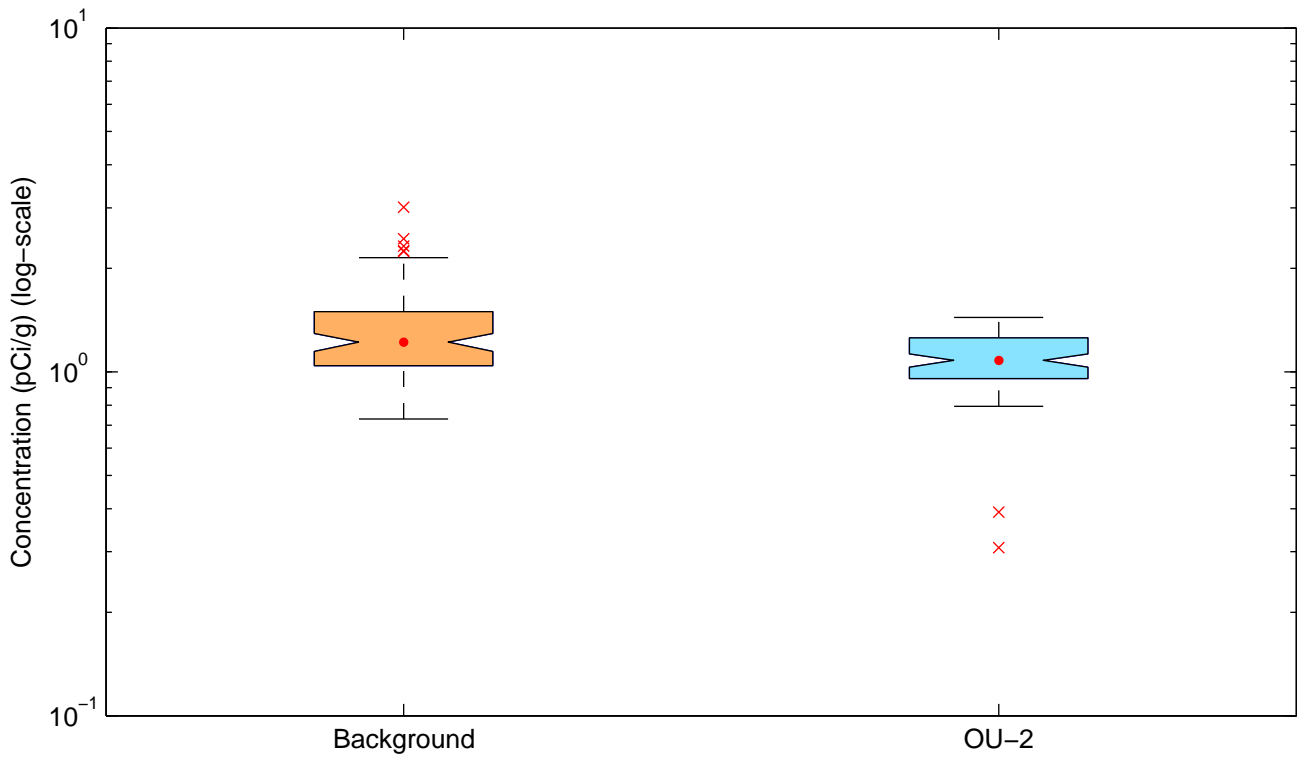
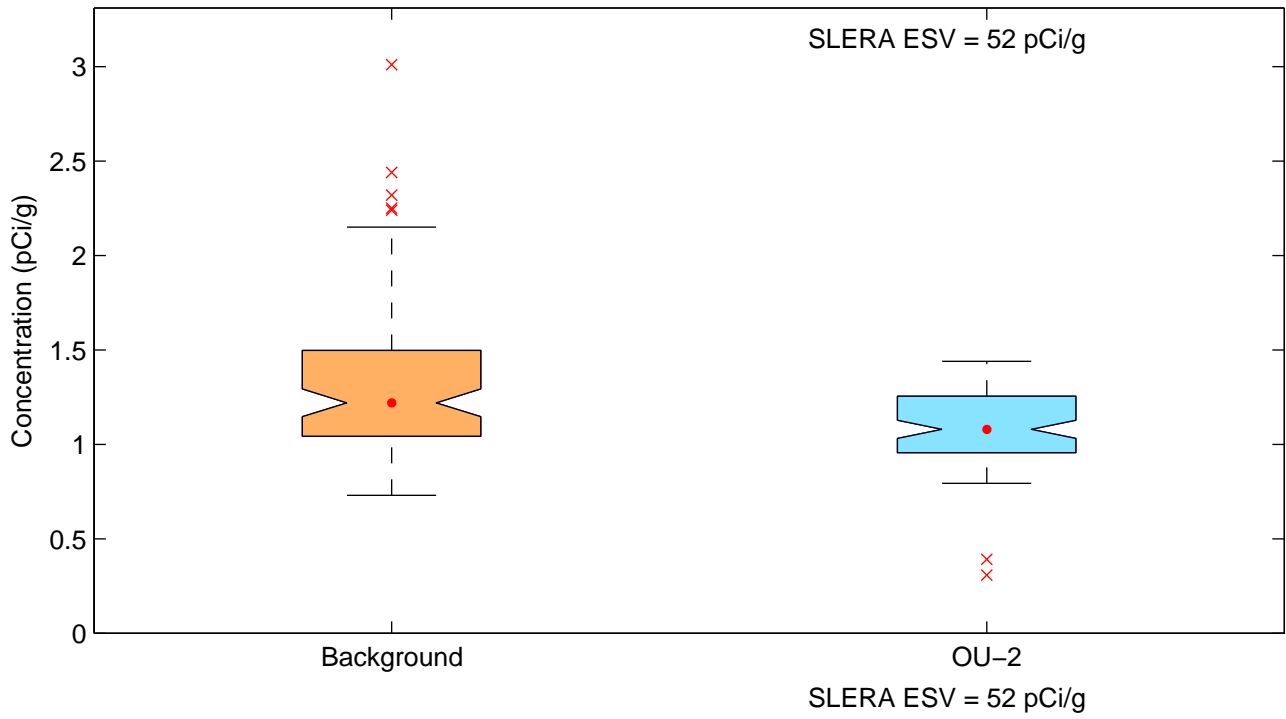
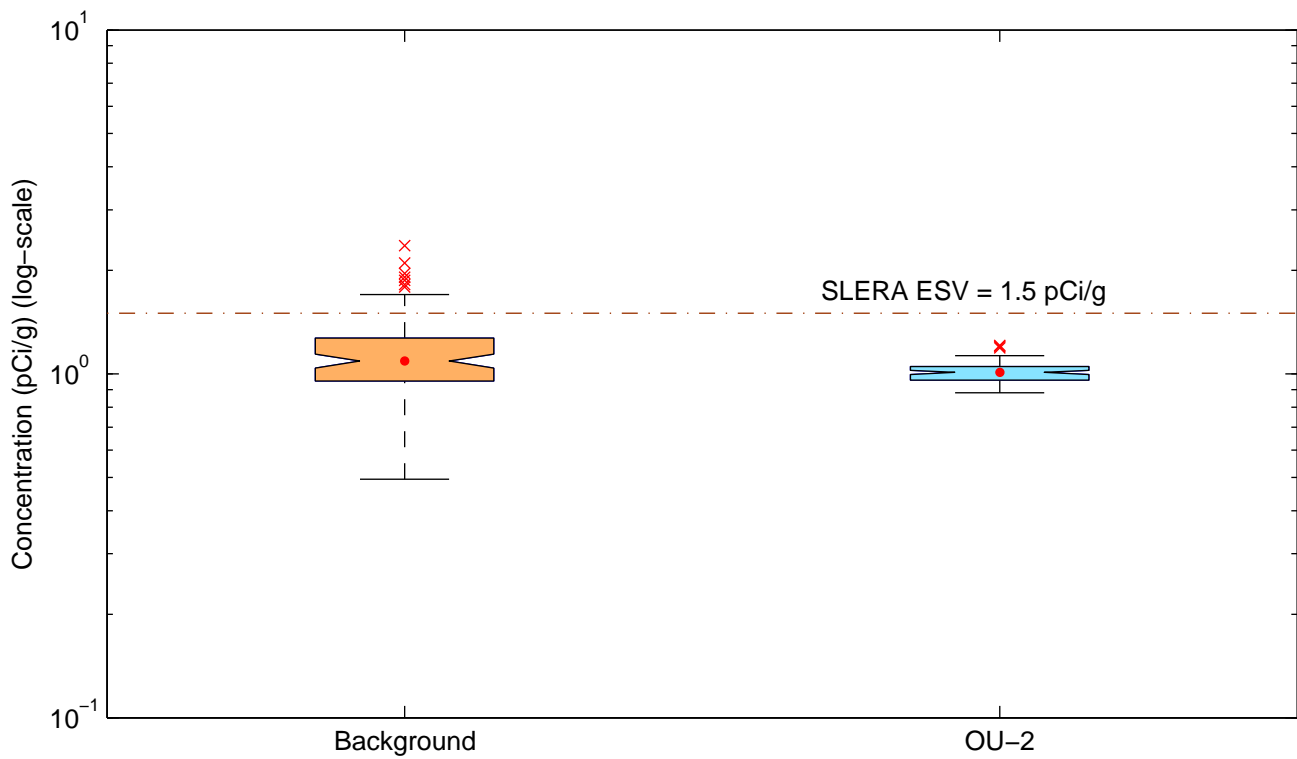
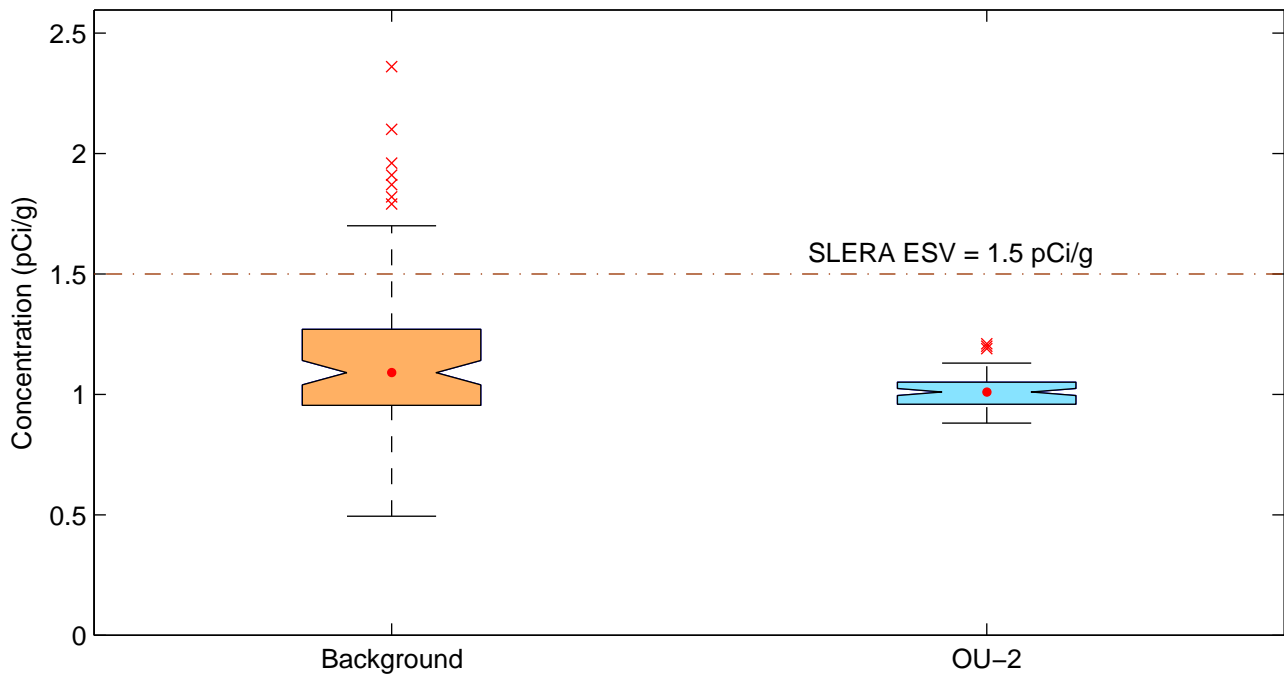
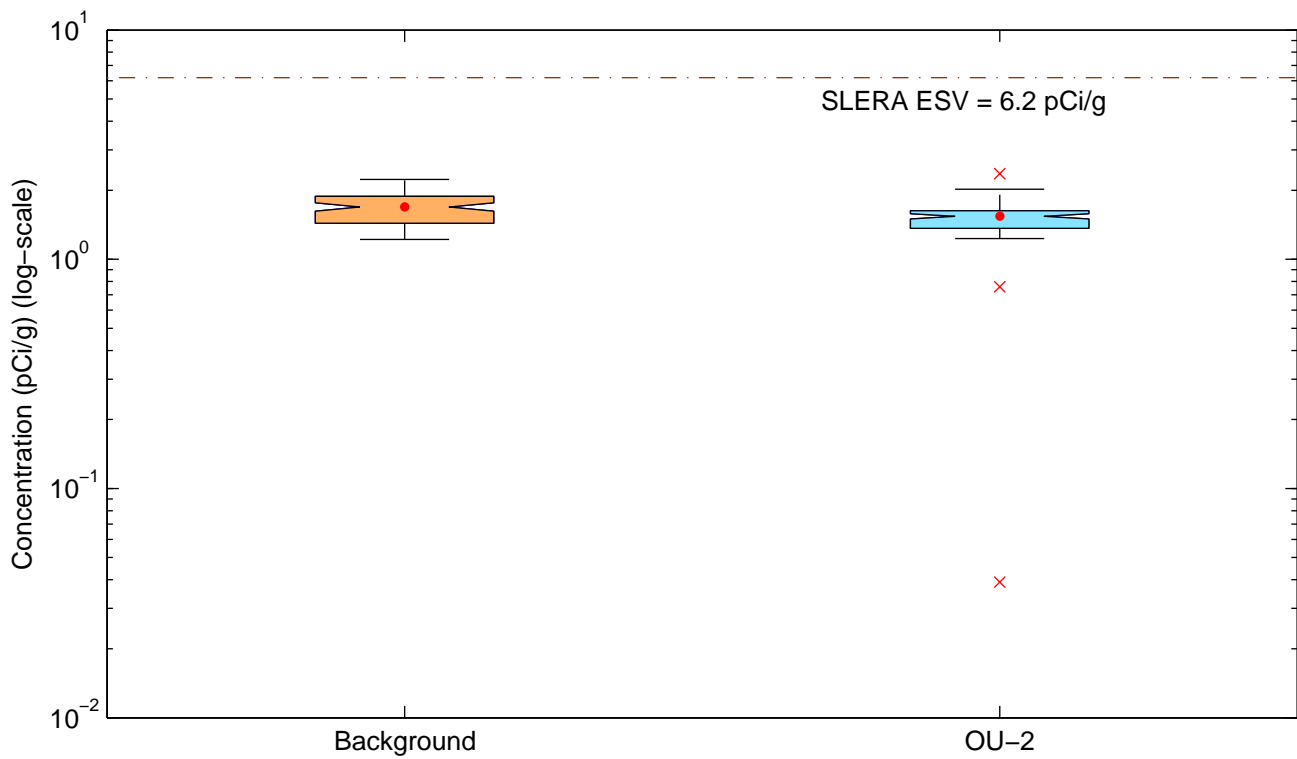
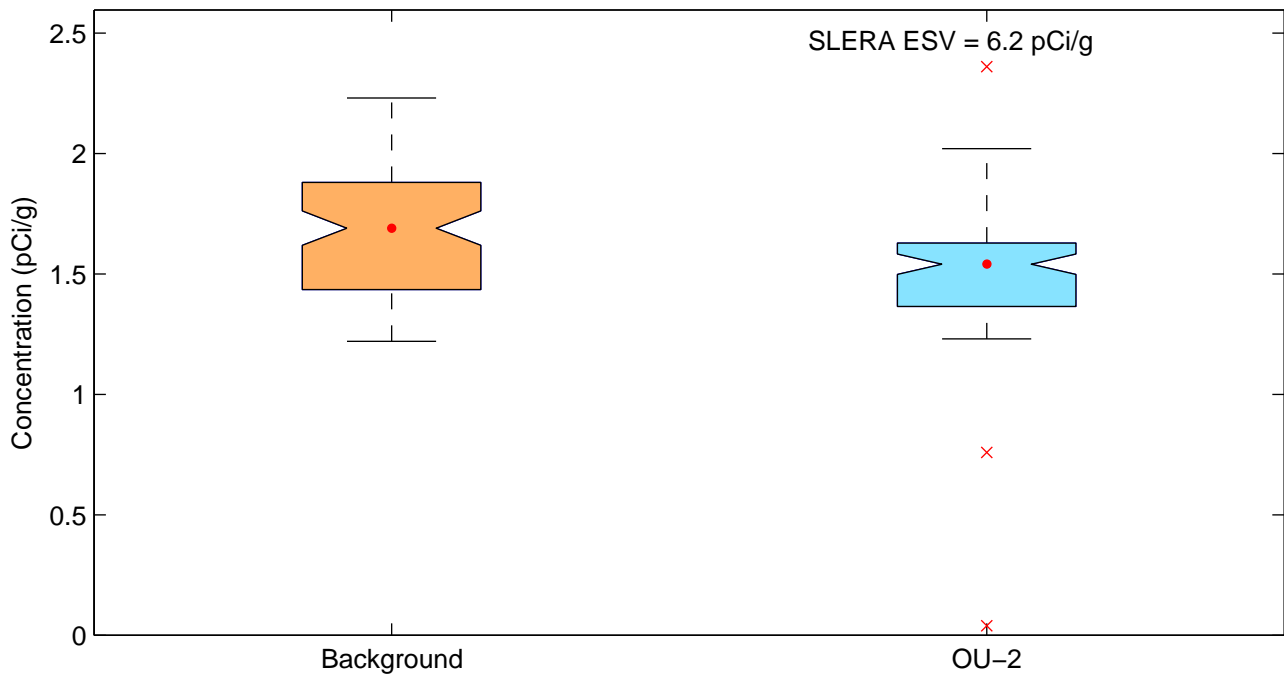


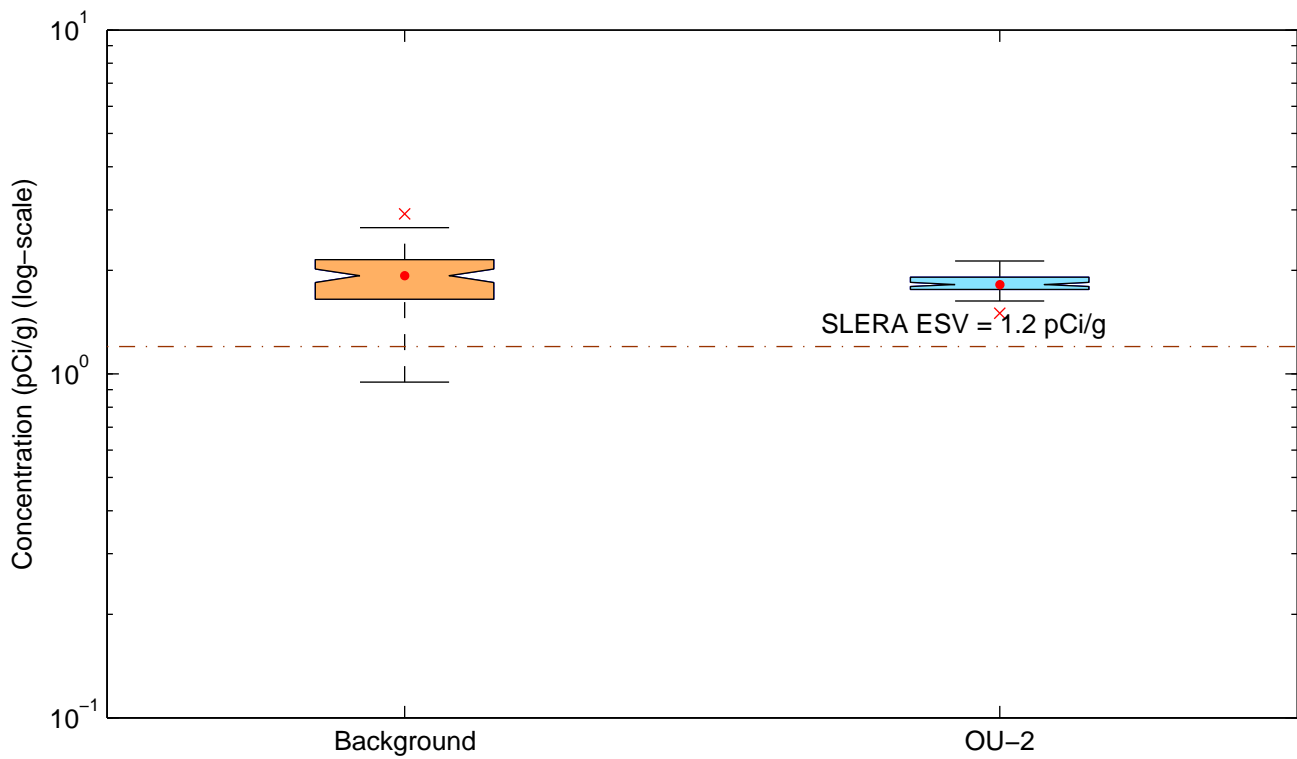
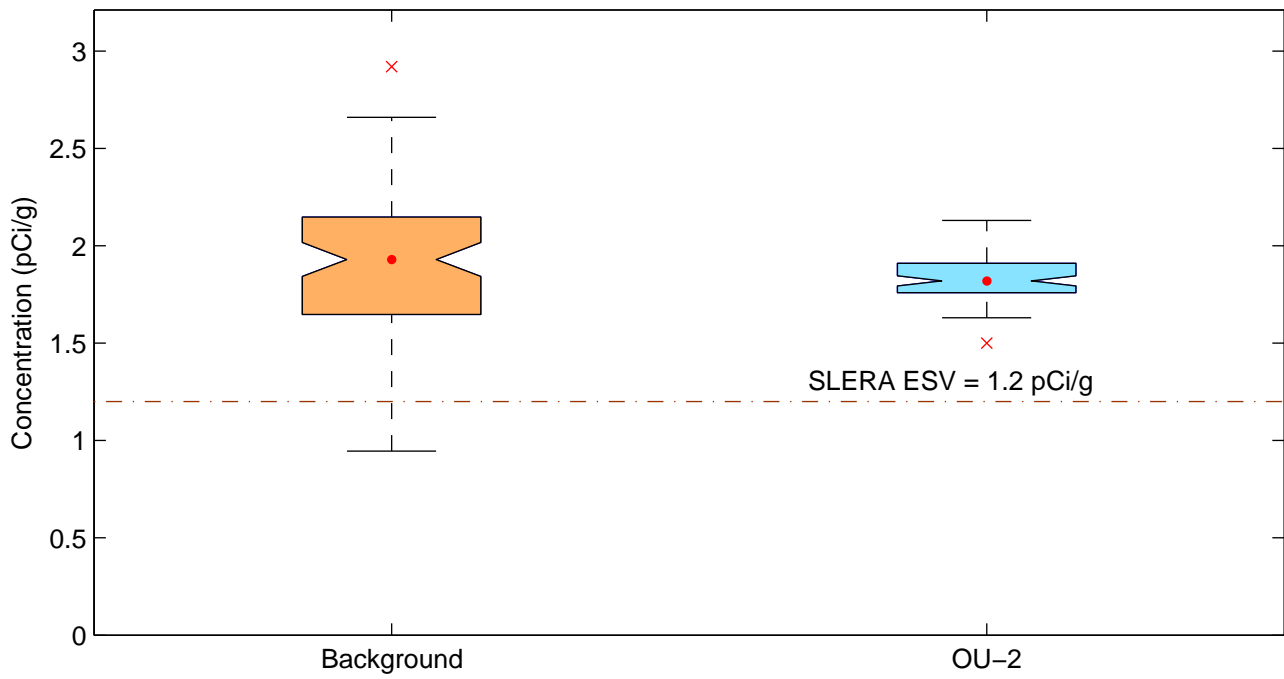
Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides Radium-226



**Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides
Thorium-232**



**Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides
Radium-228**



**Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides
Thorium-228**

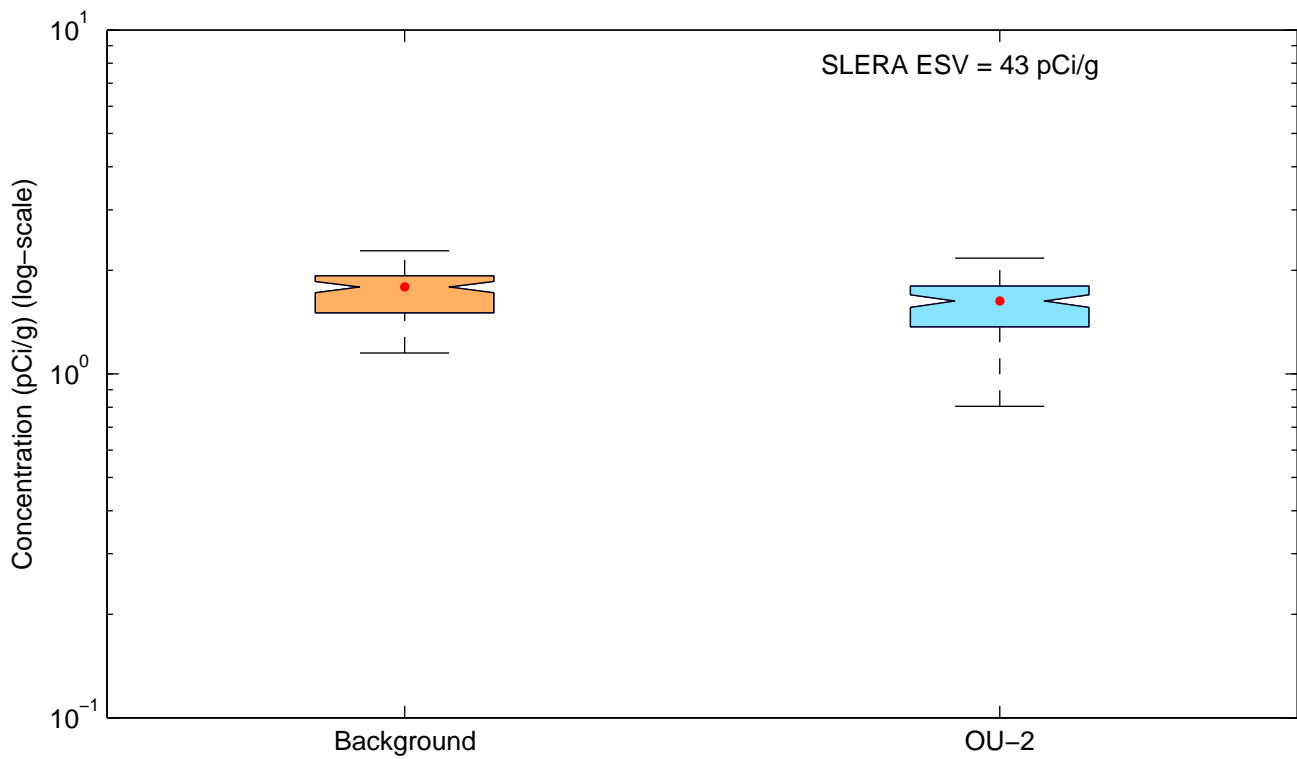
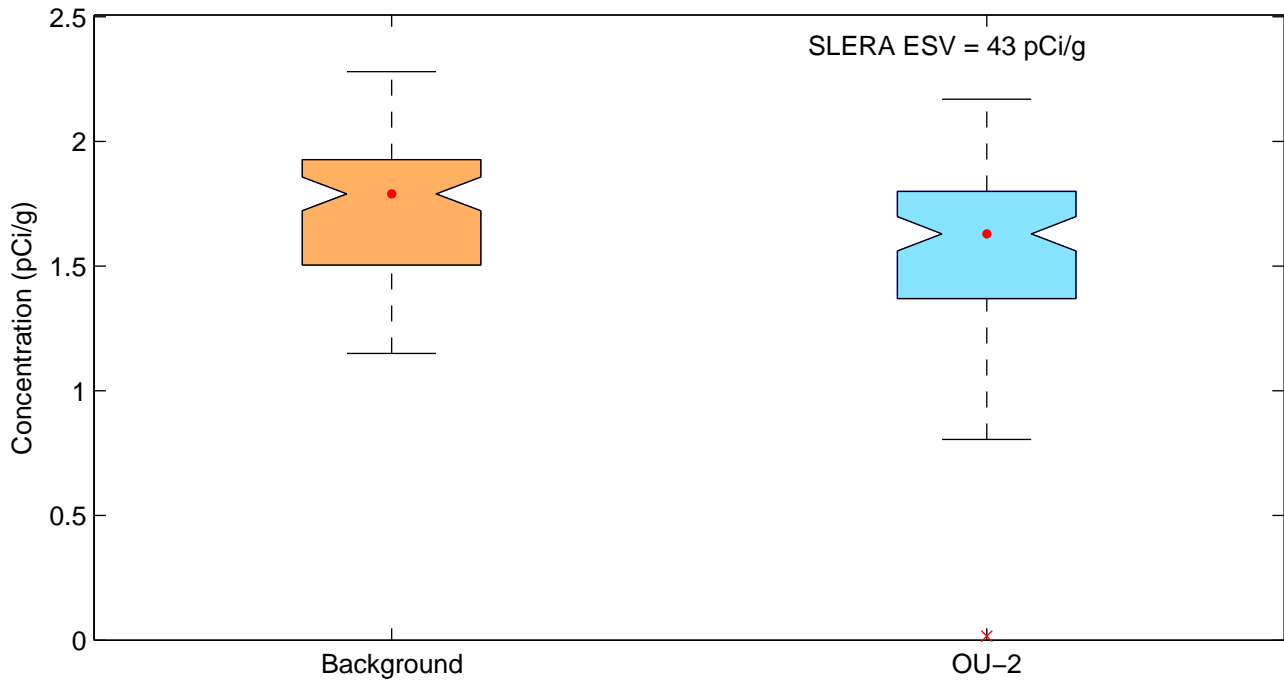


Figure D-2b. Background vs. OU-2 Boxplots for Radionuclides Uranium-235

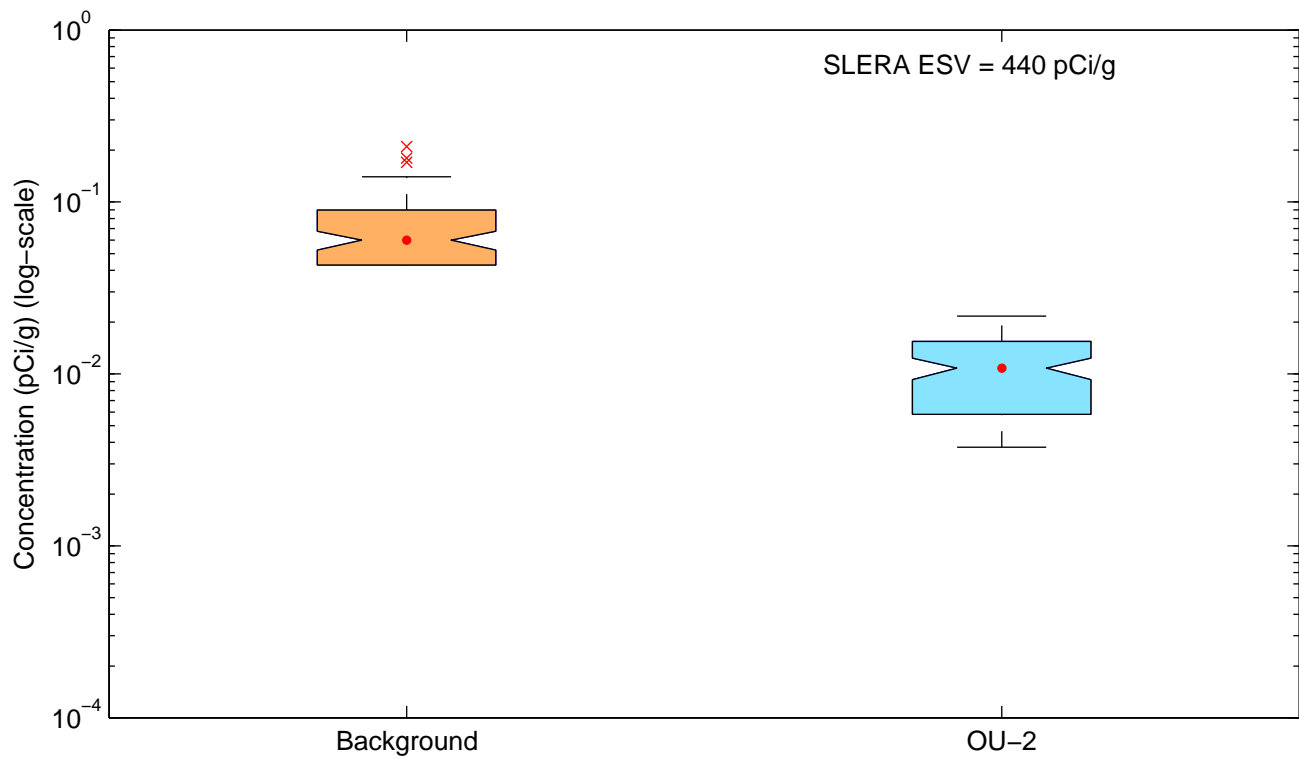
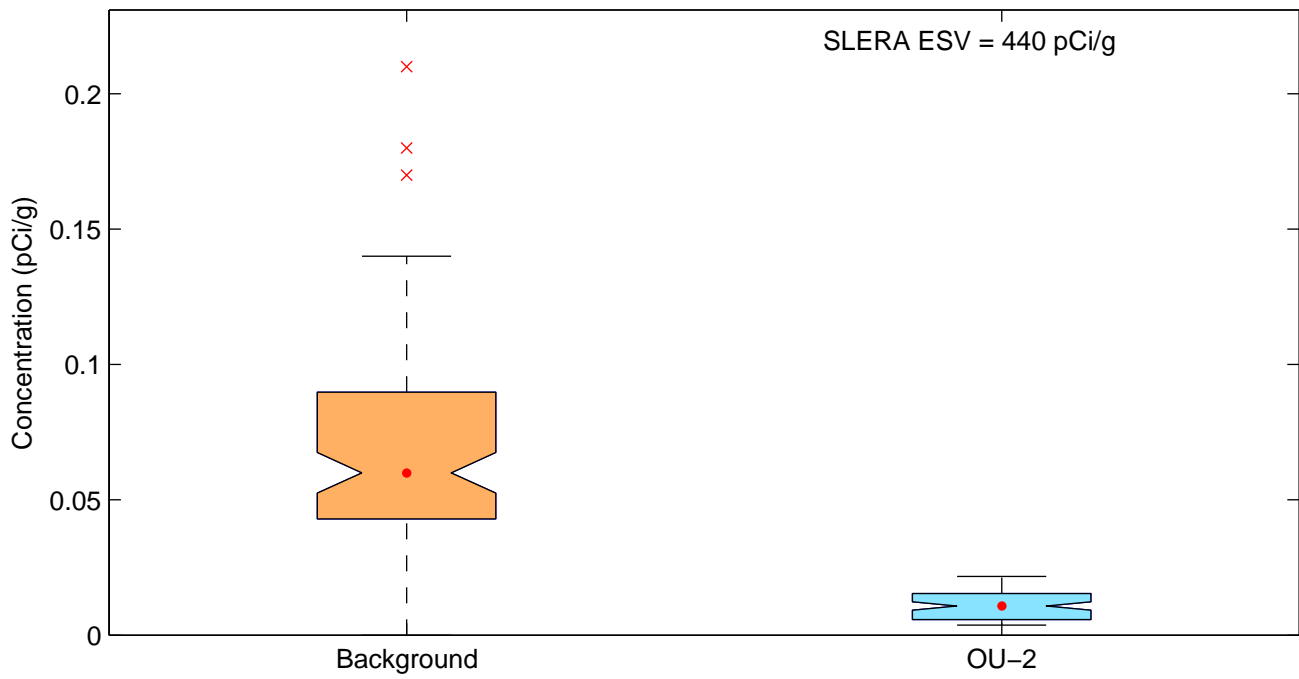


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Aluminum

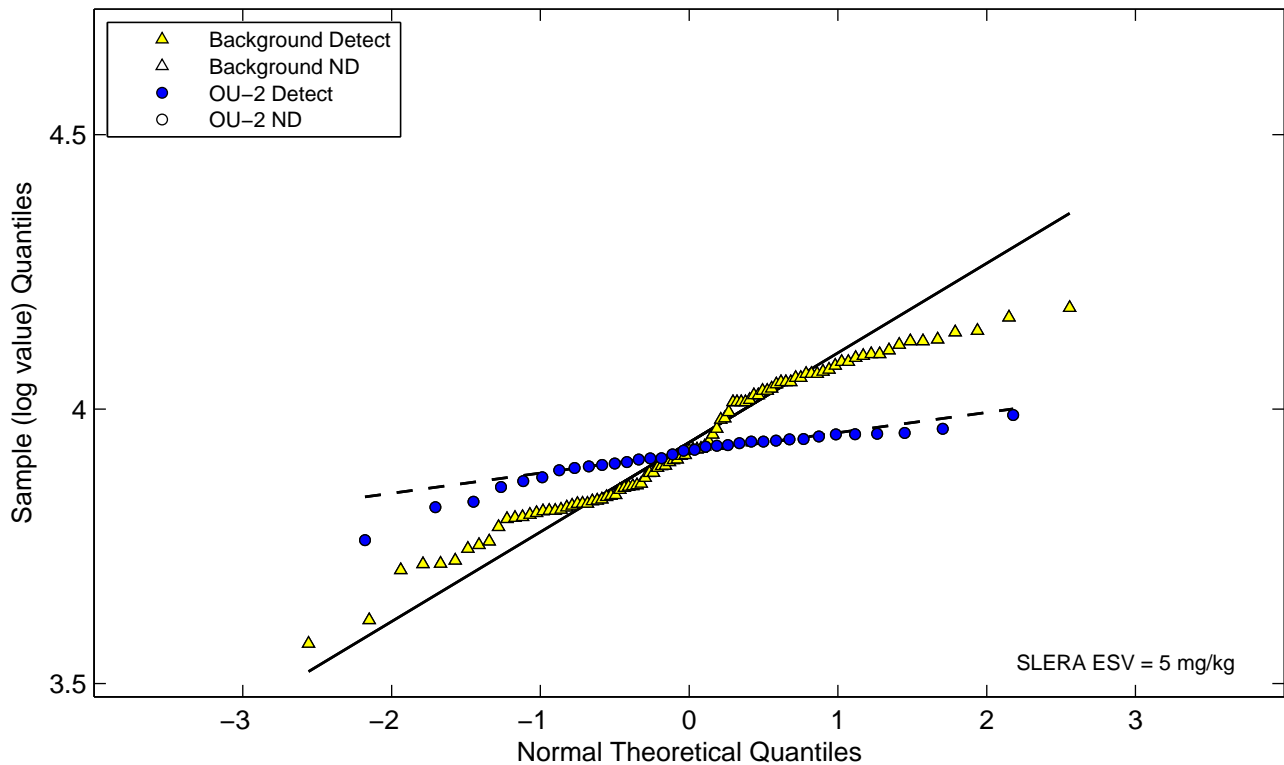
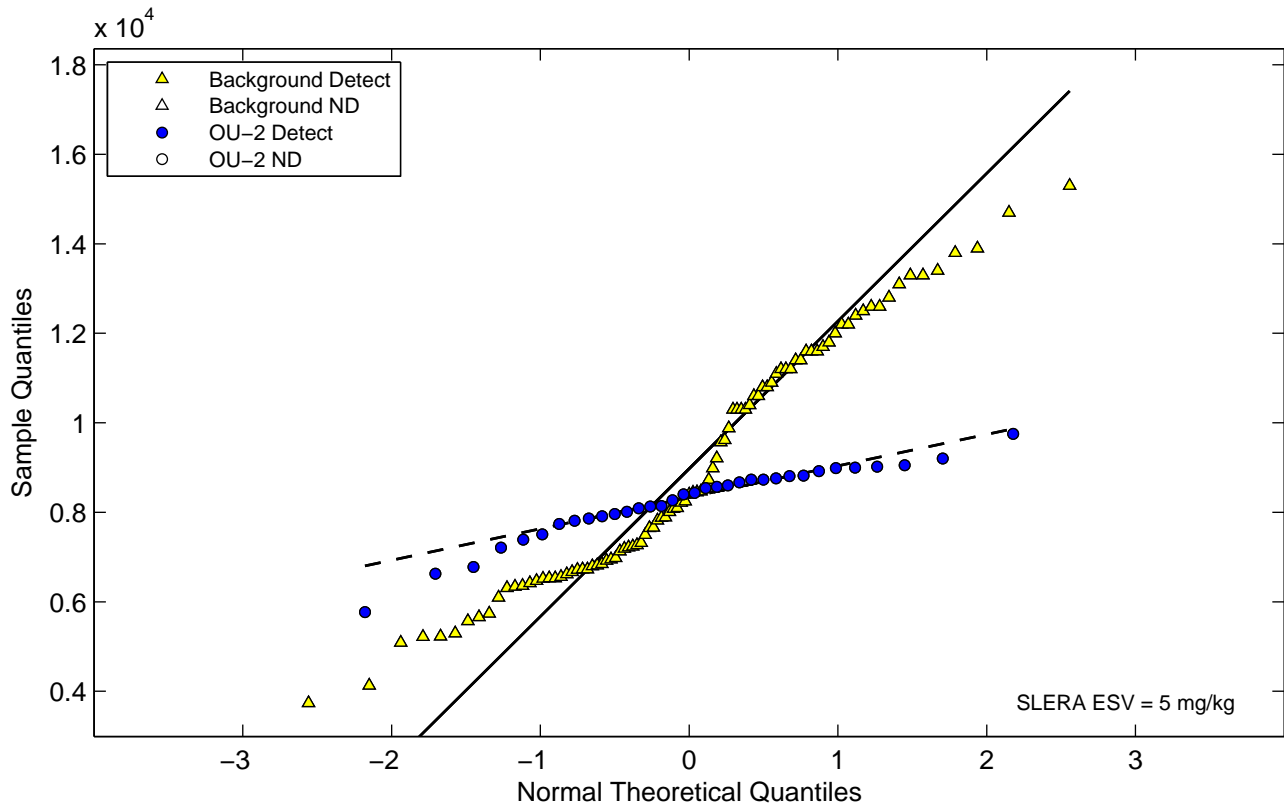


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Antimony

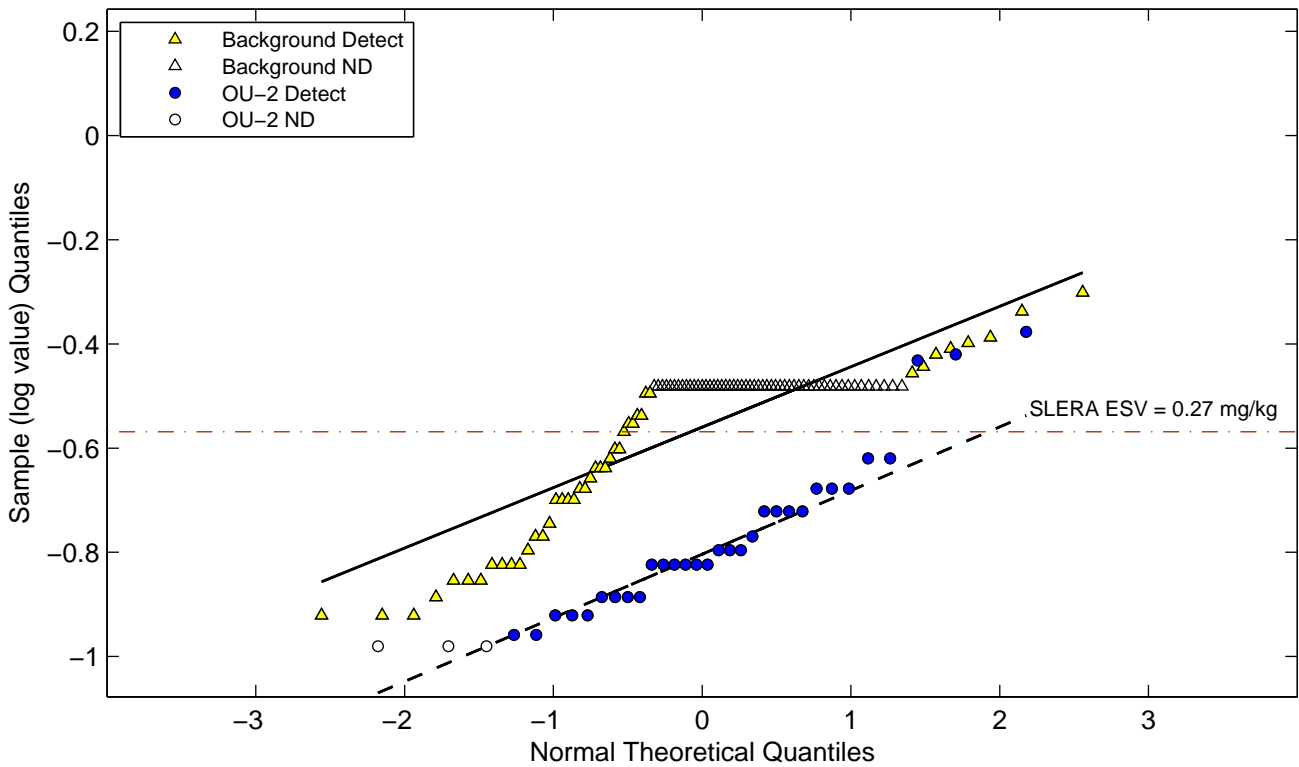
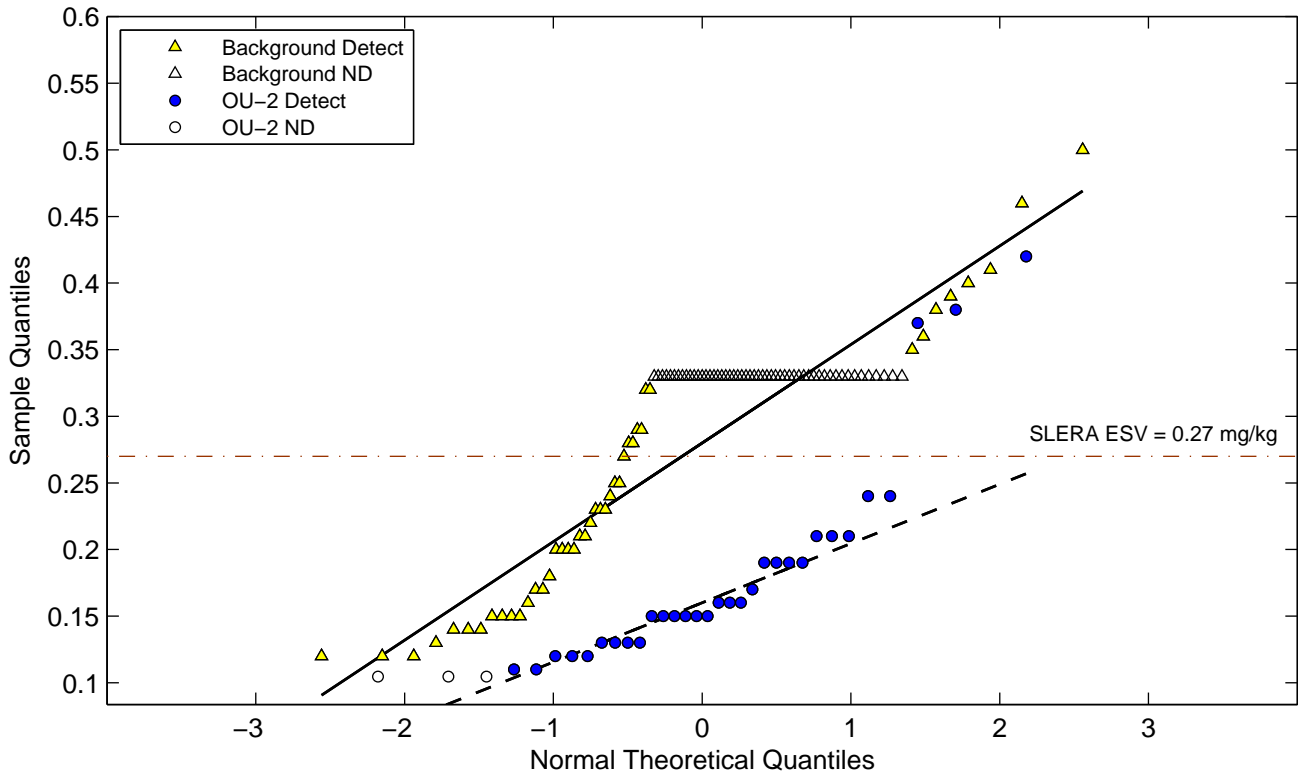


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Arsenic

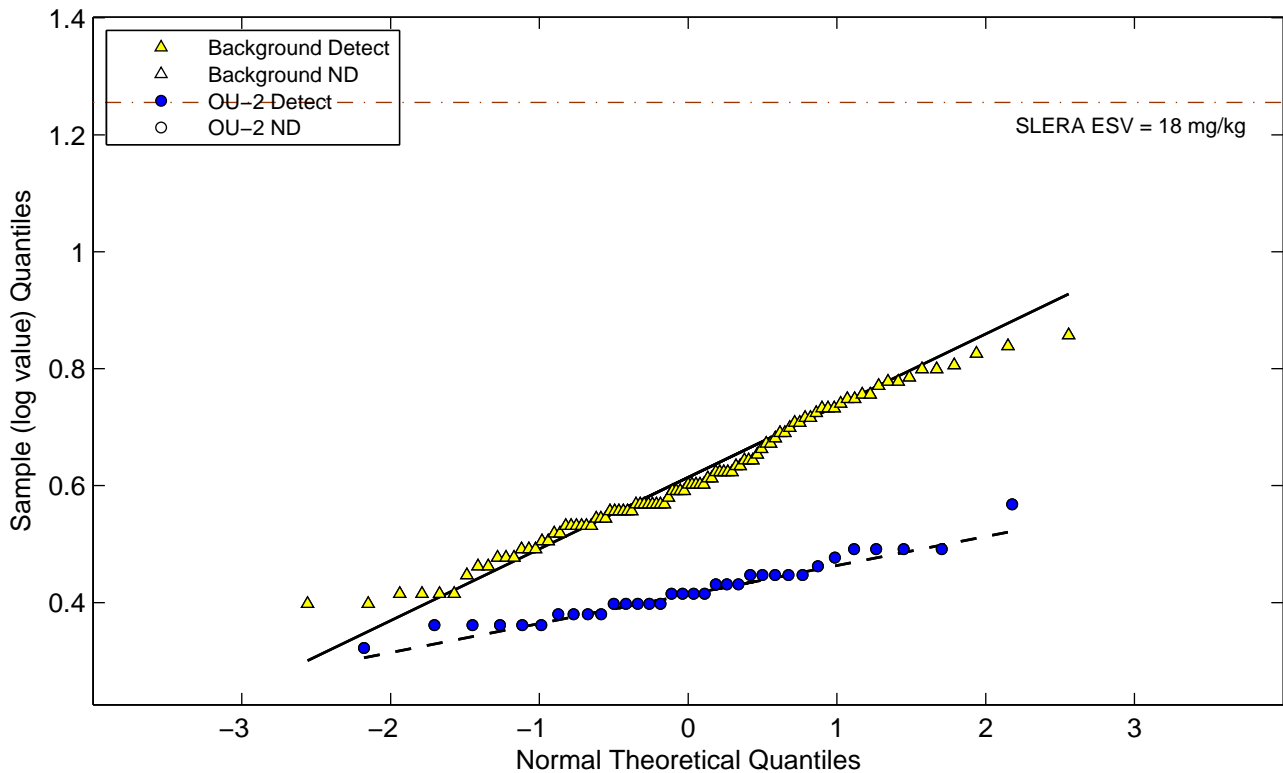
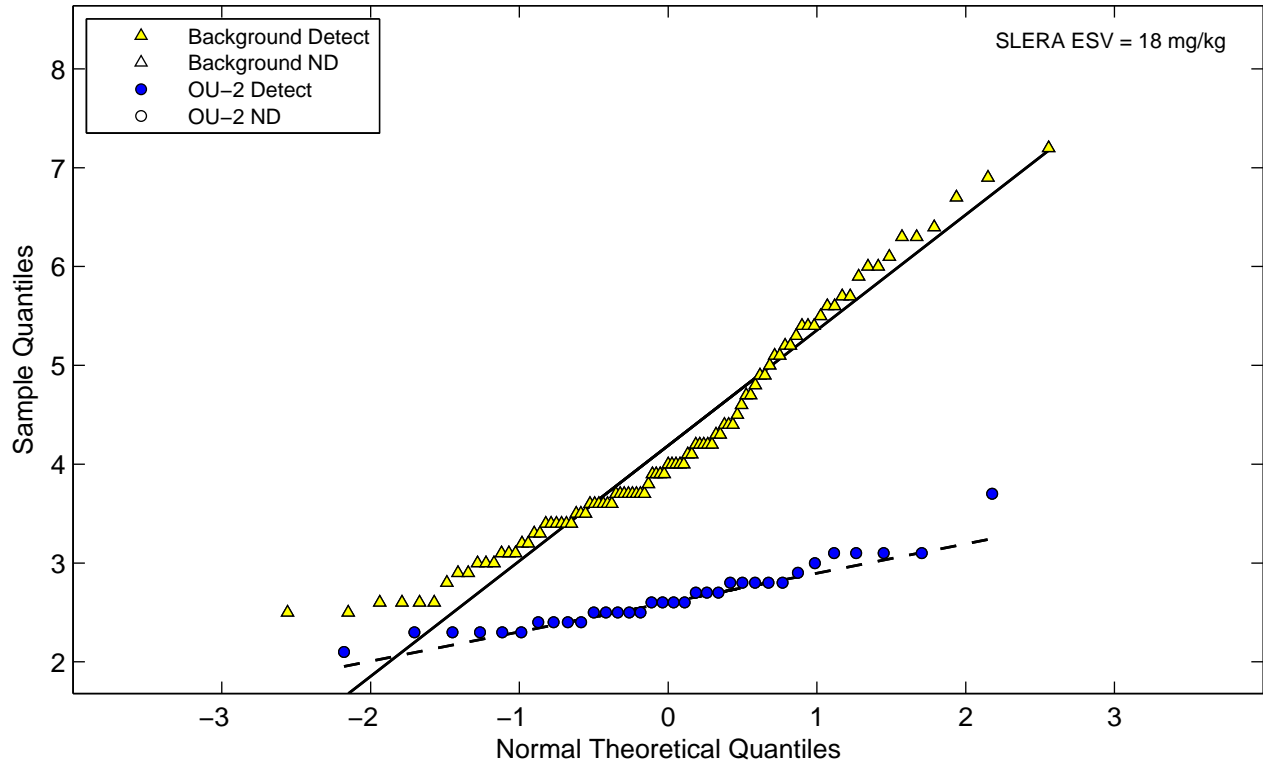


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Barium

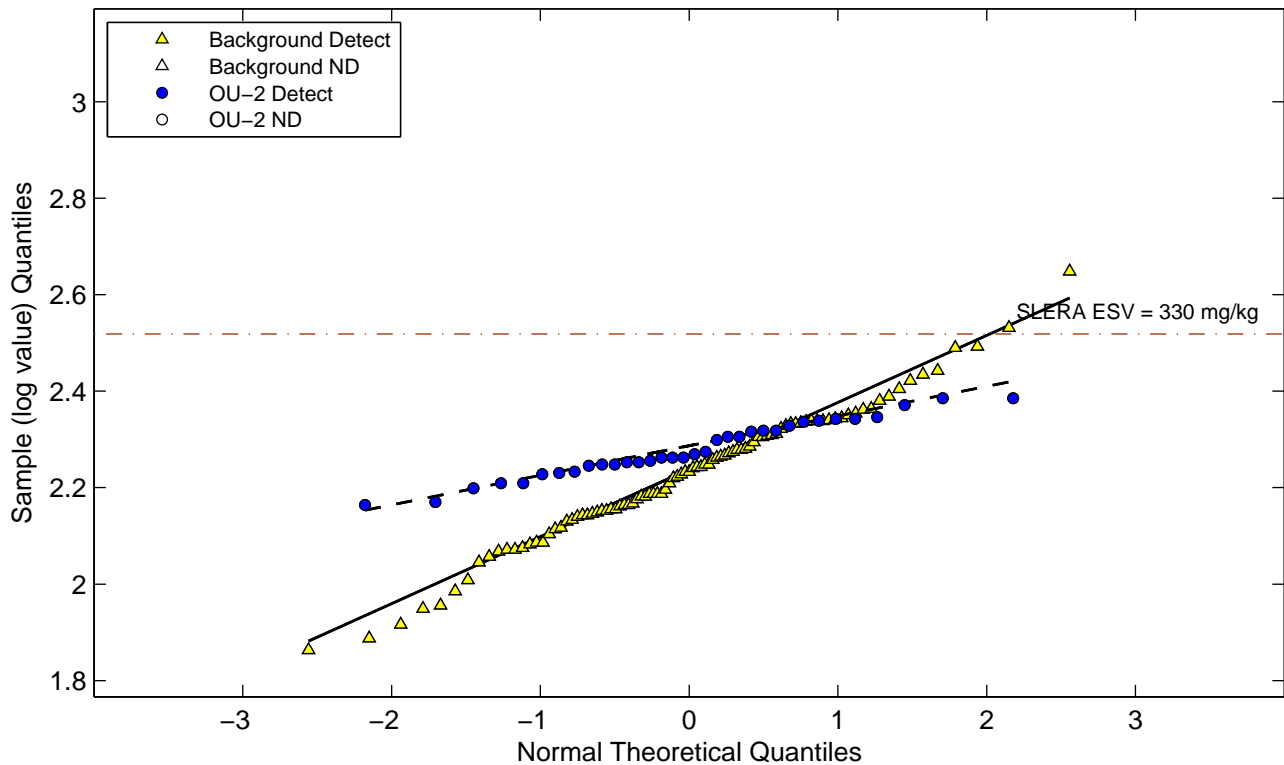
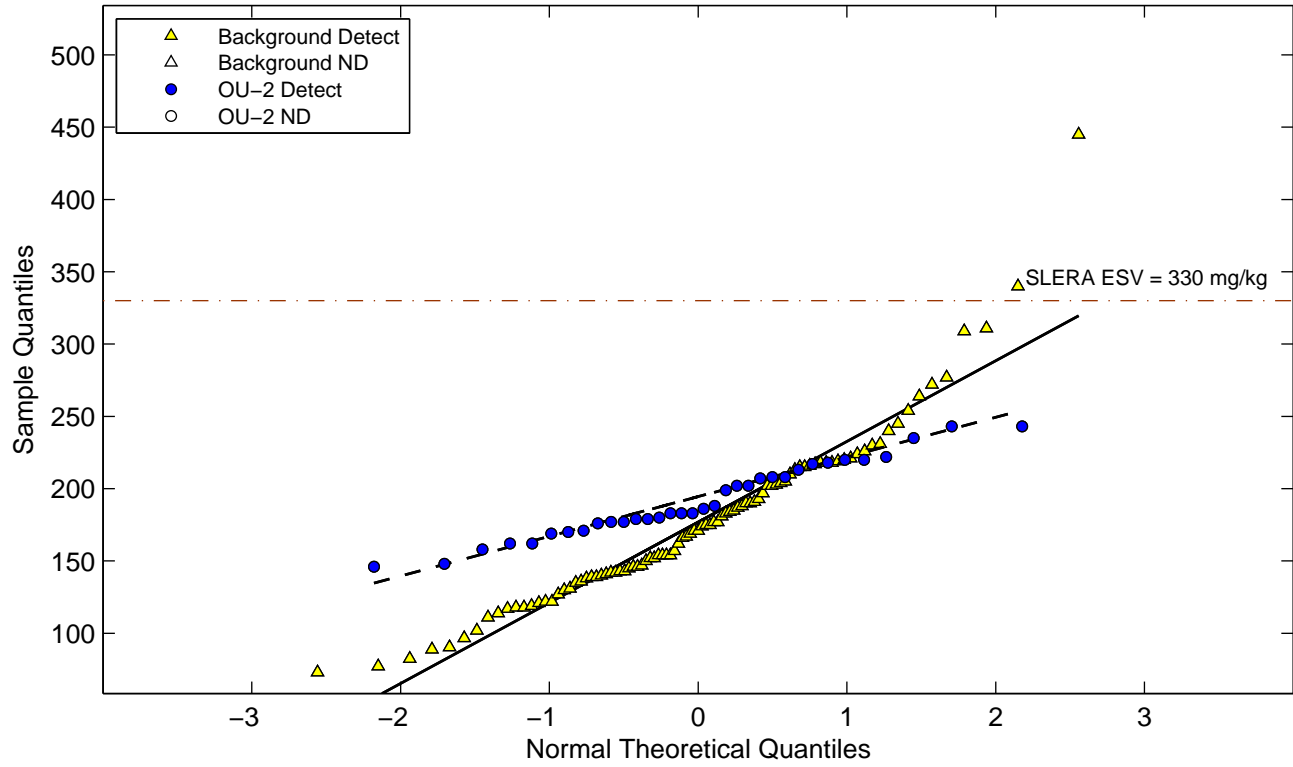
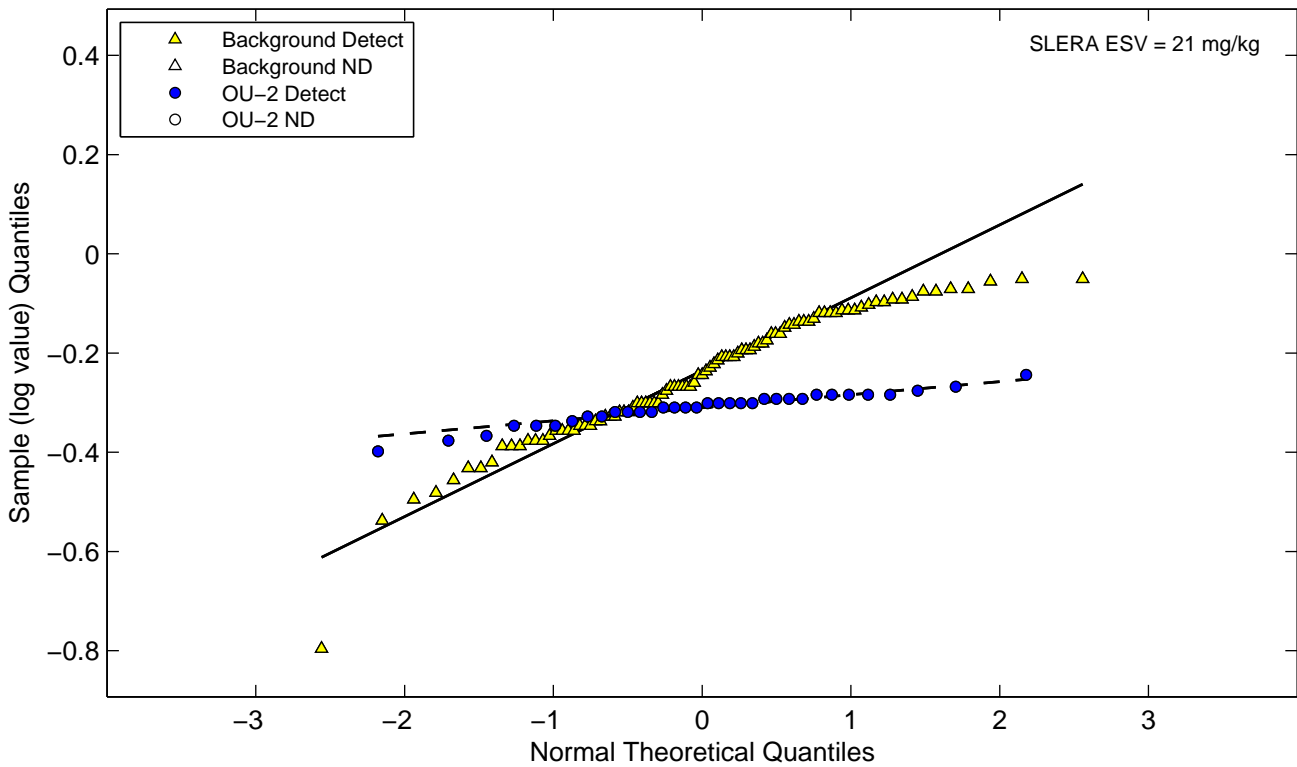
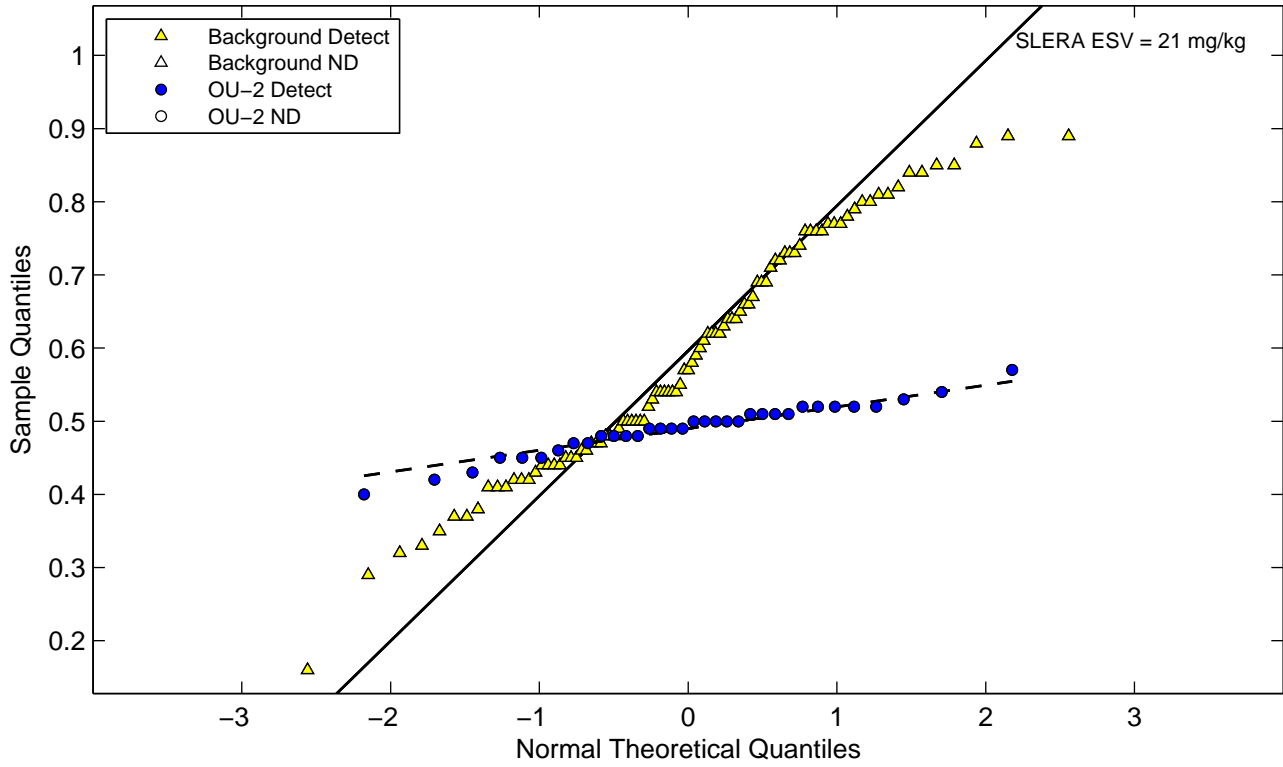
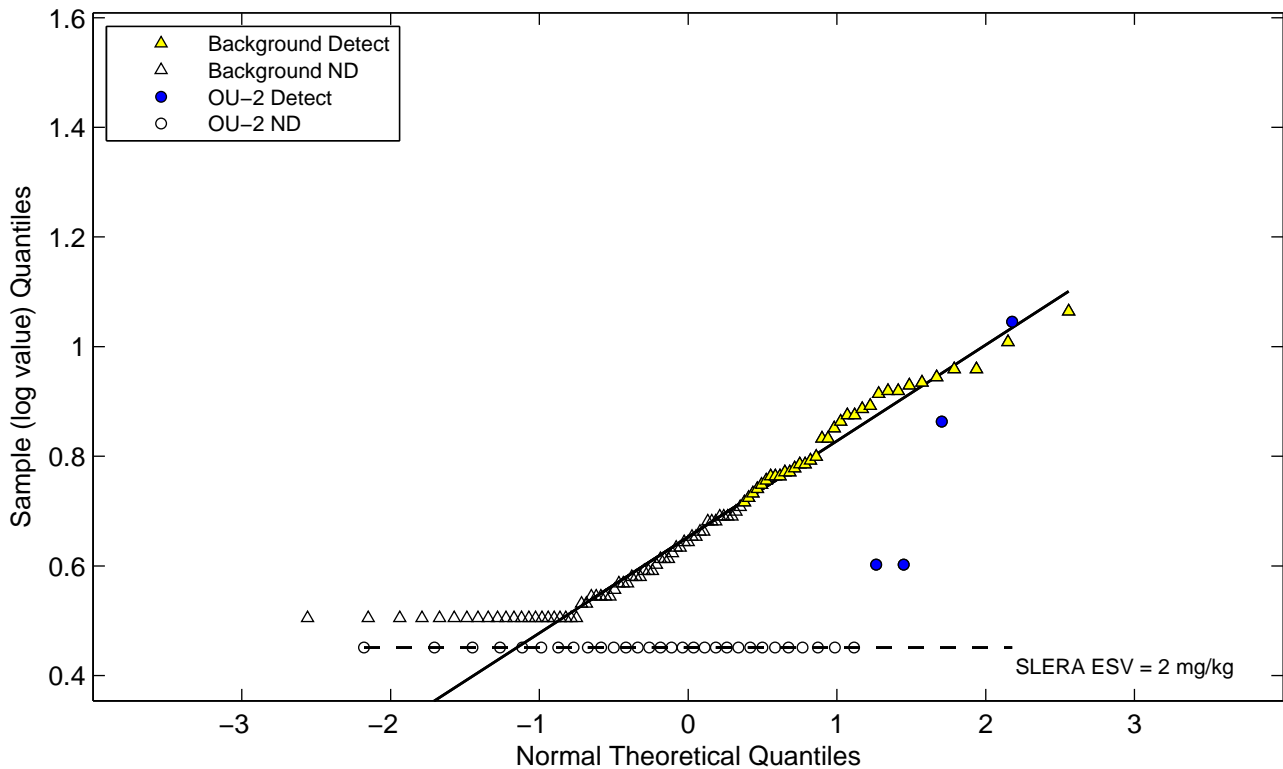
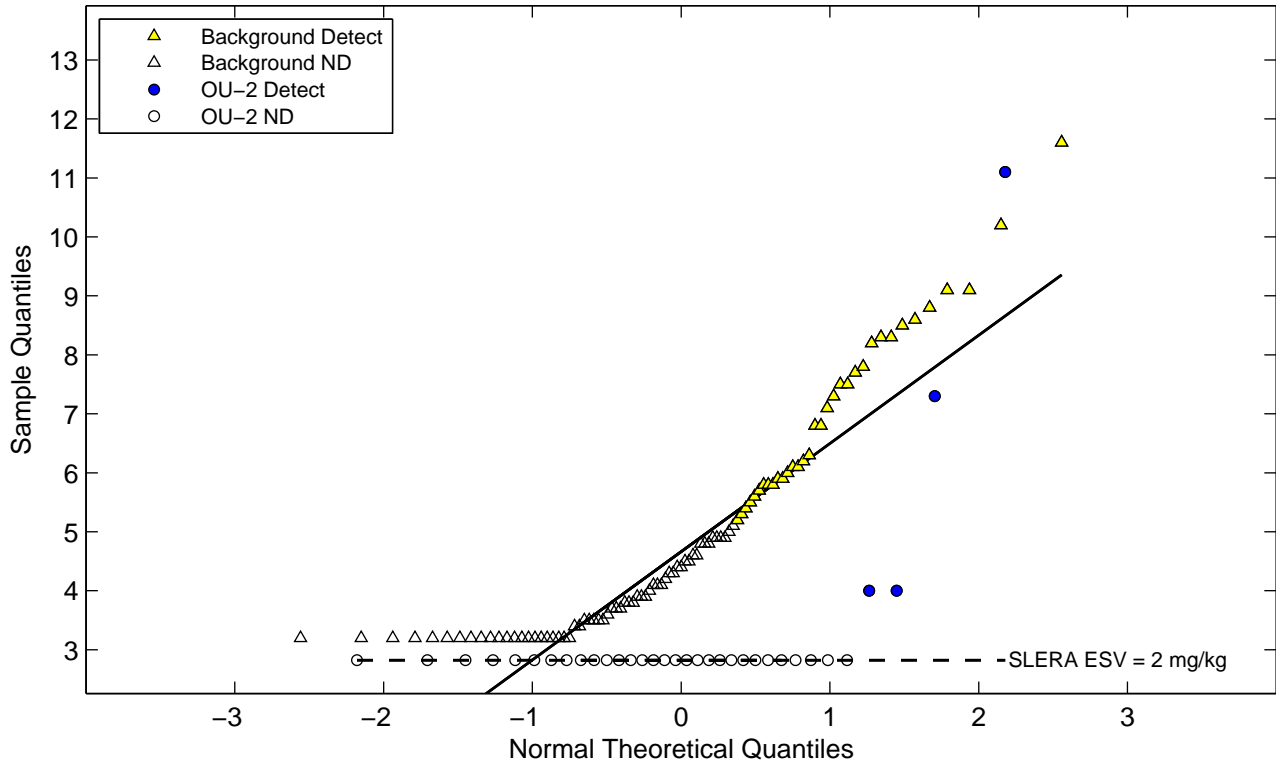


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Beryllium



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Boron**



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Cadmium**

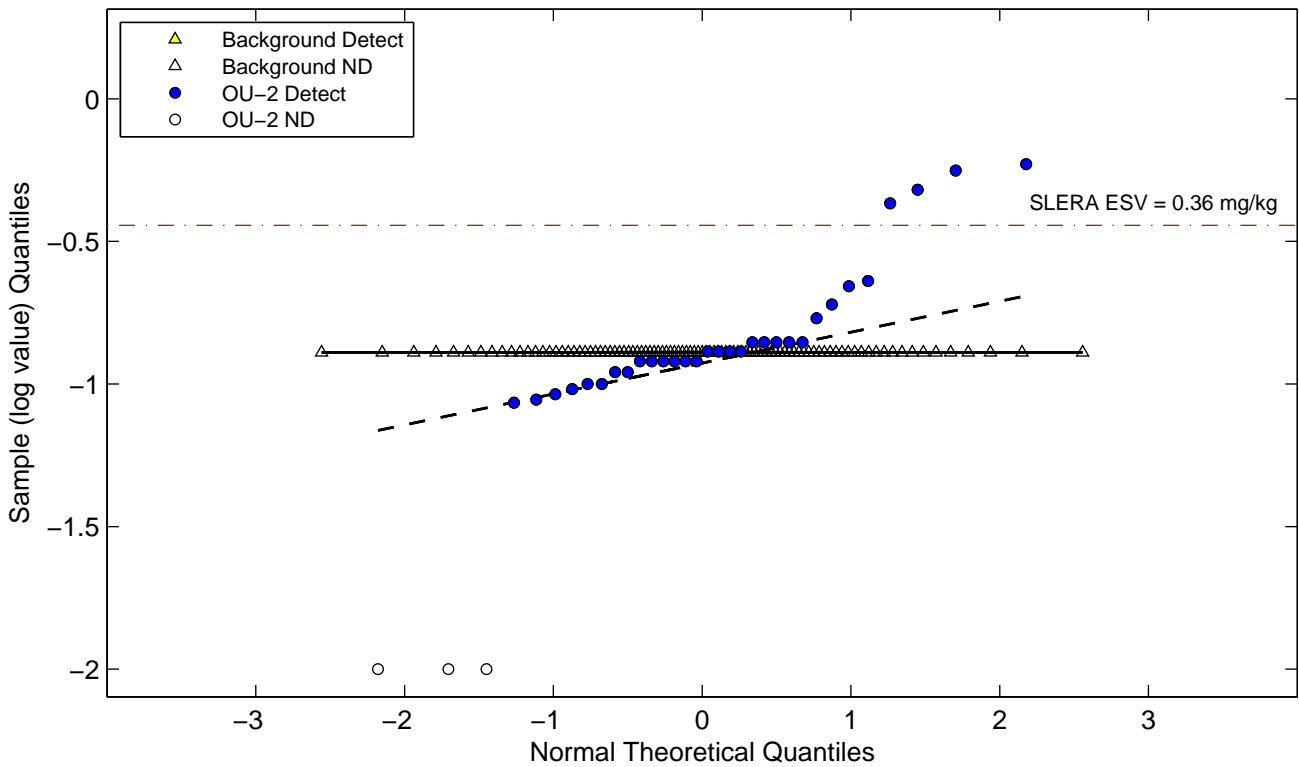
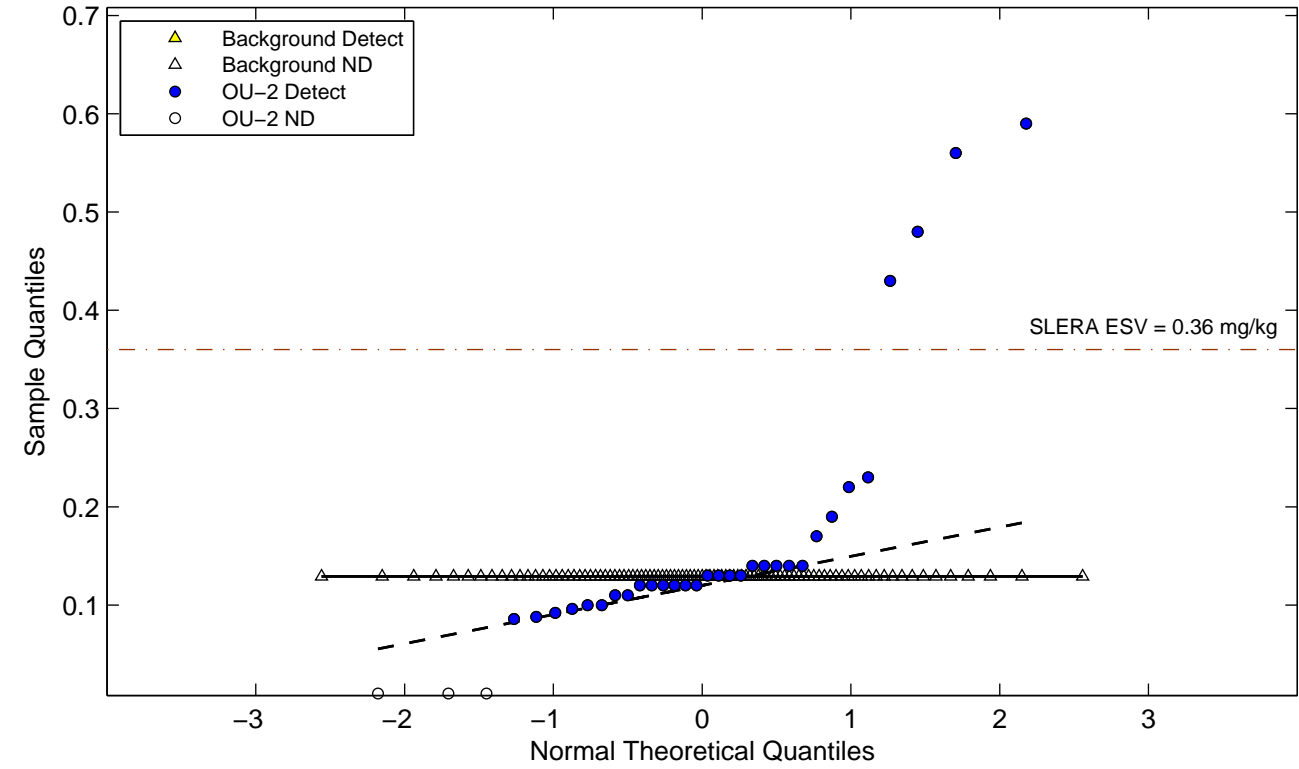
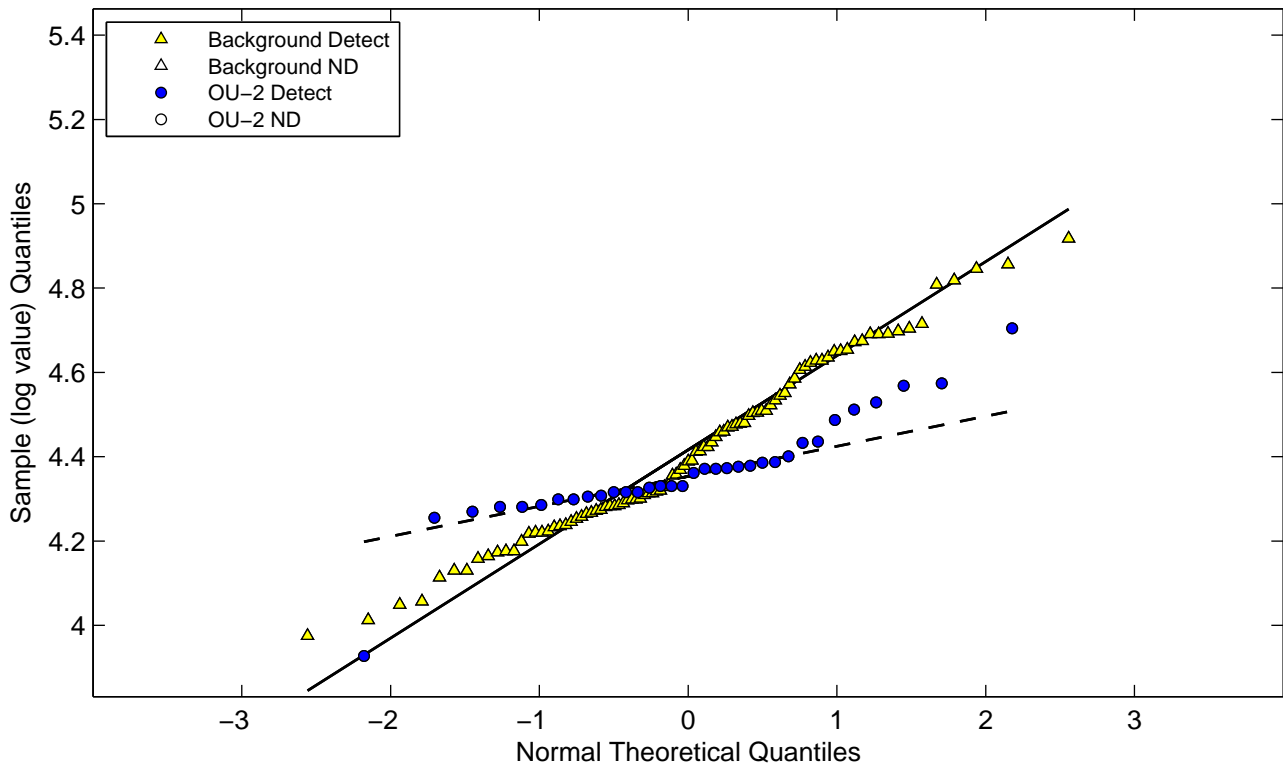
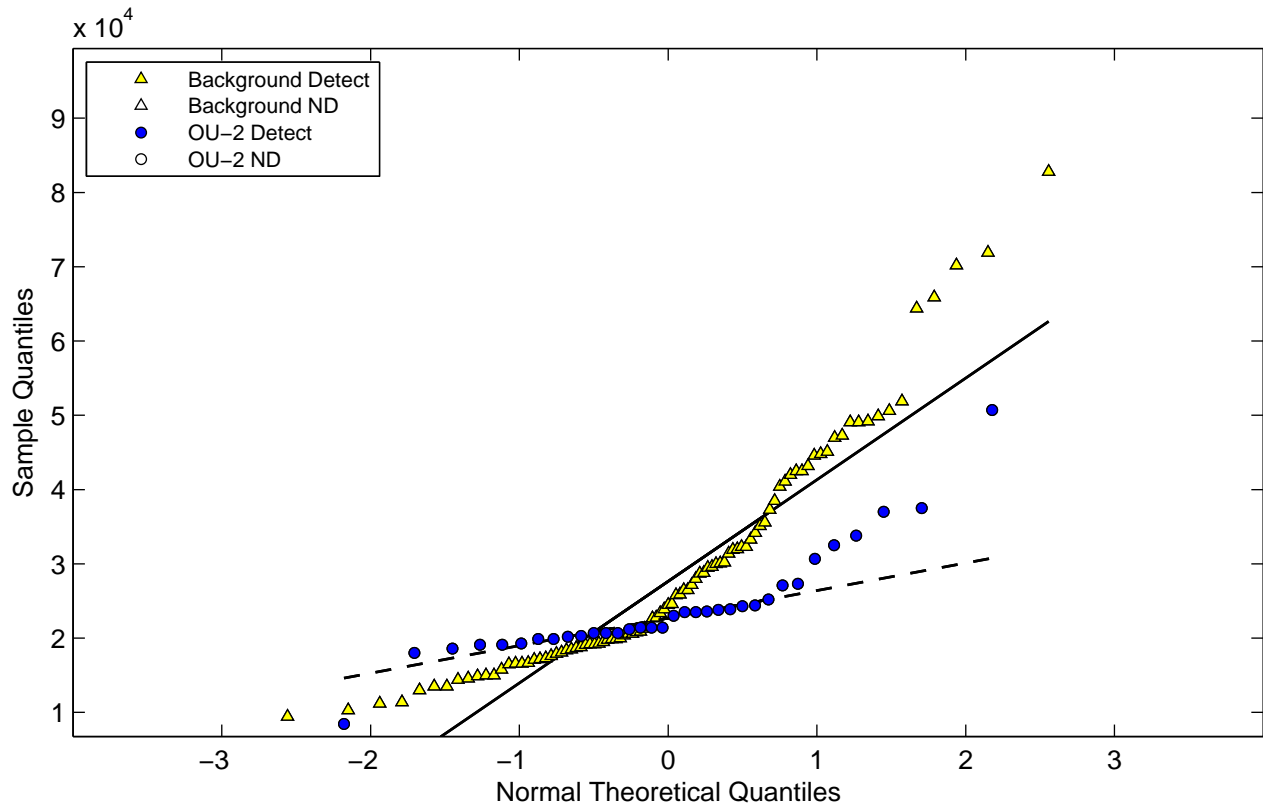
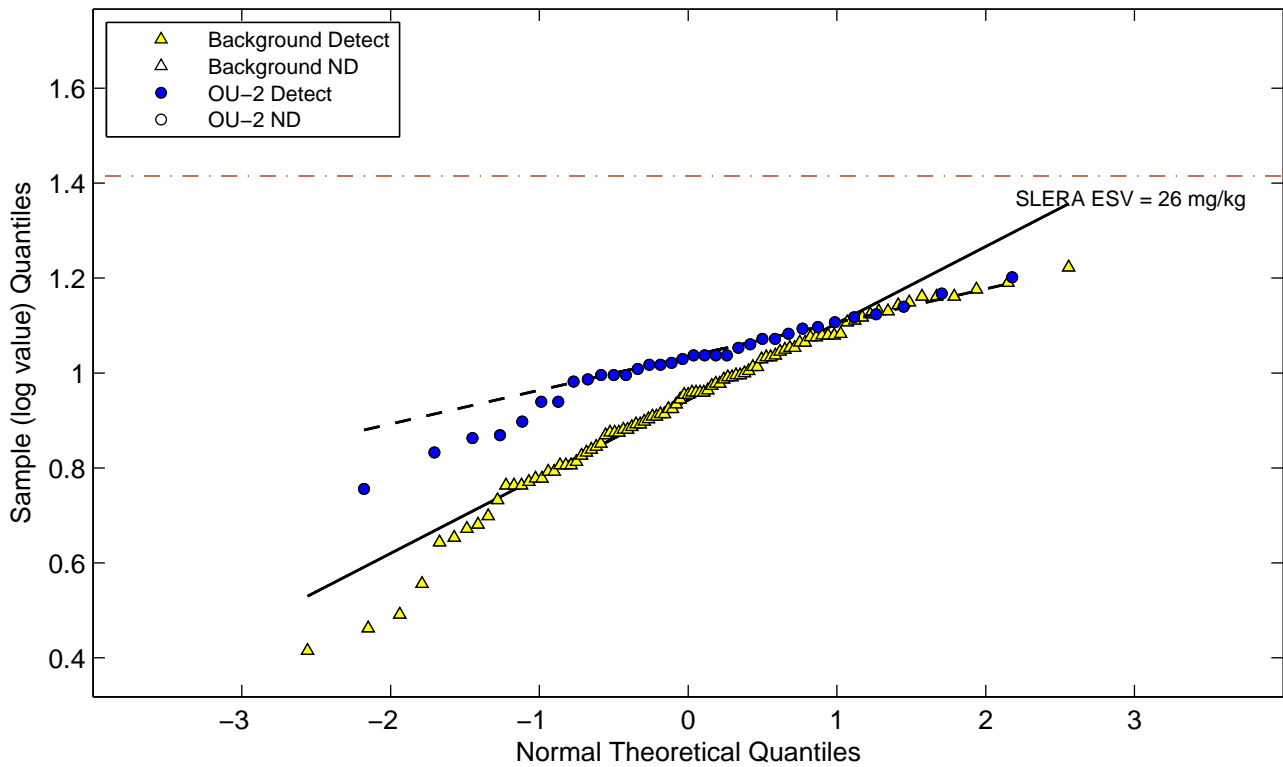
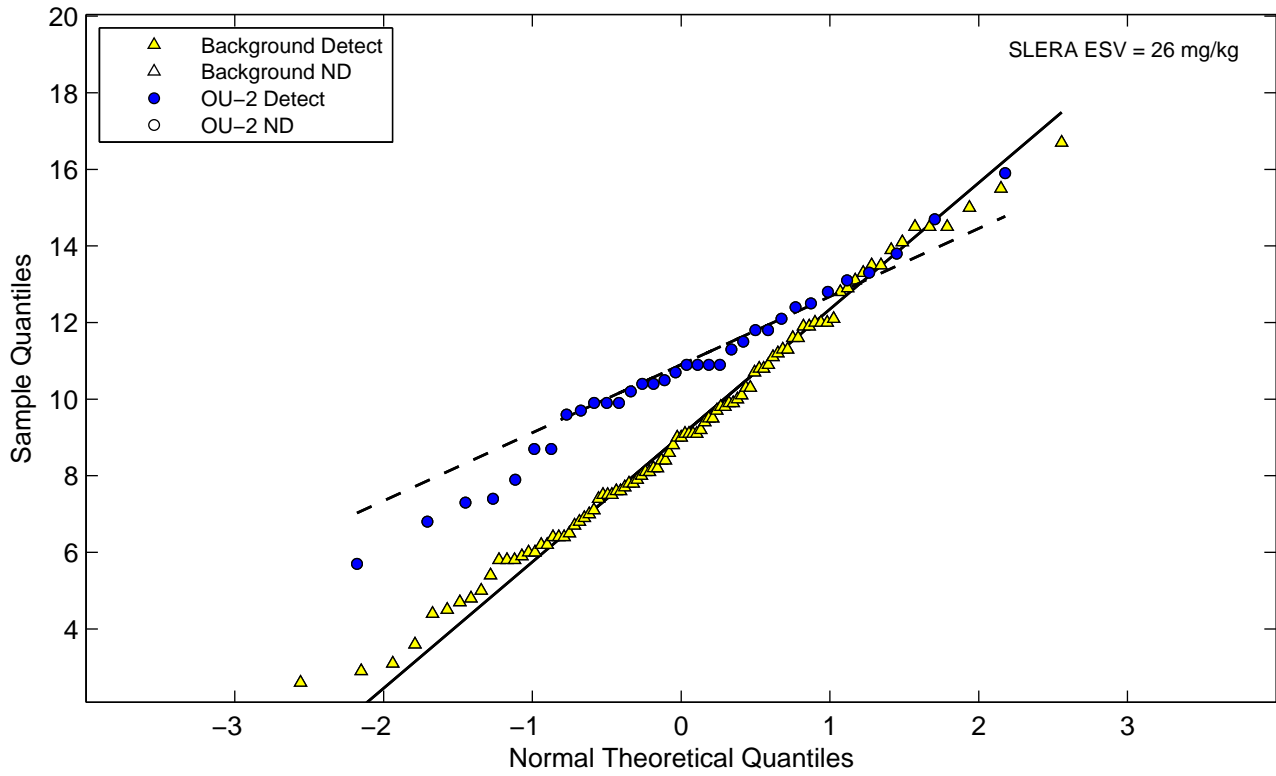


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Calcium



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Chromium (total)**



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Chromium VI**

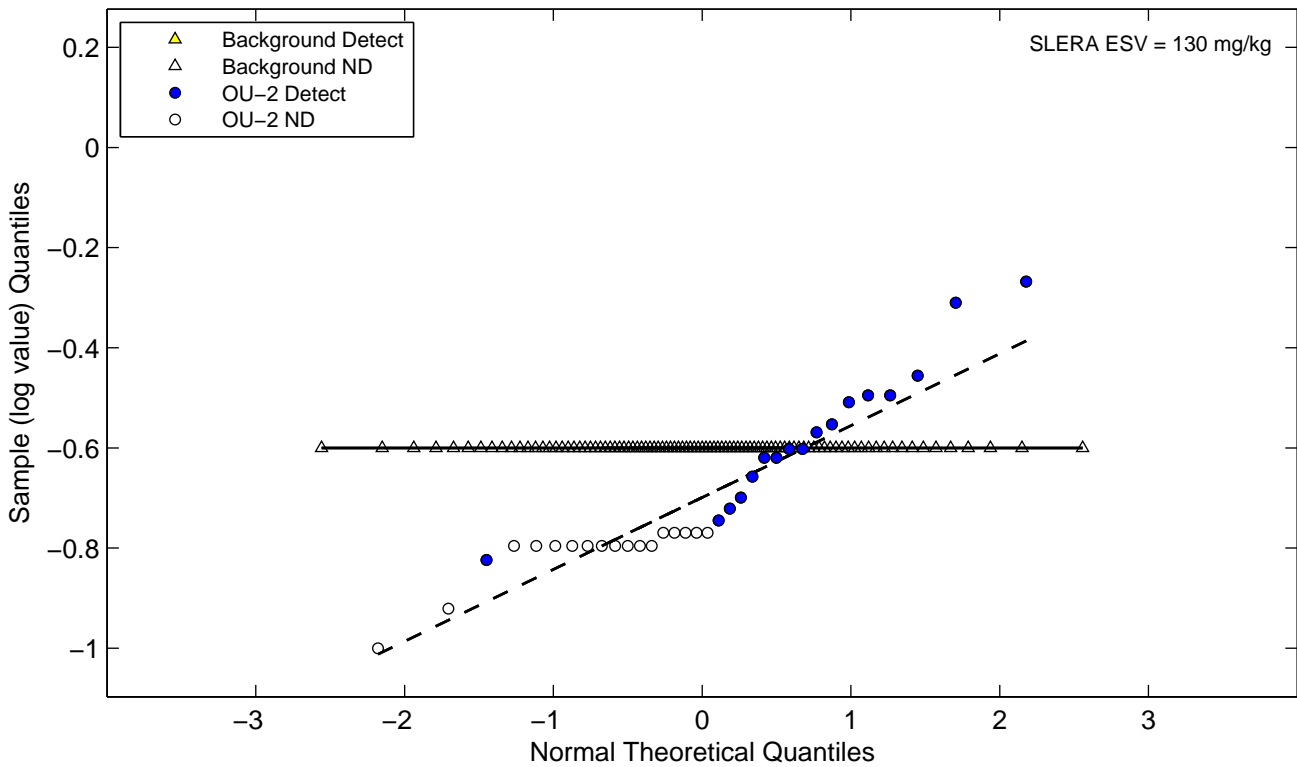
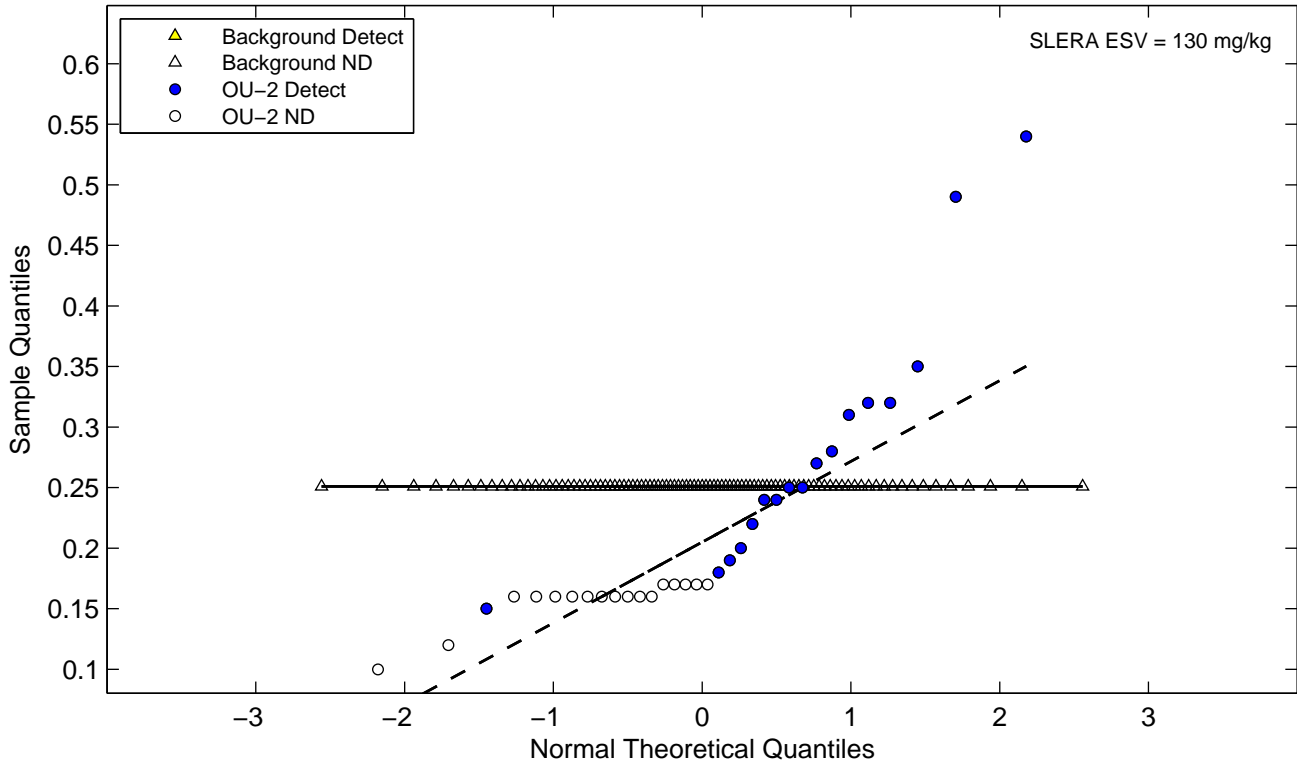


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Cobalt

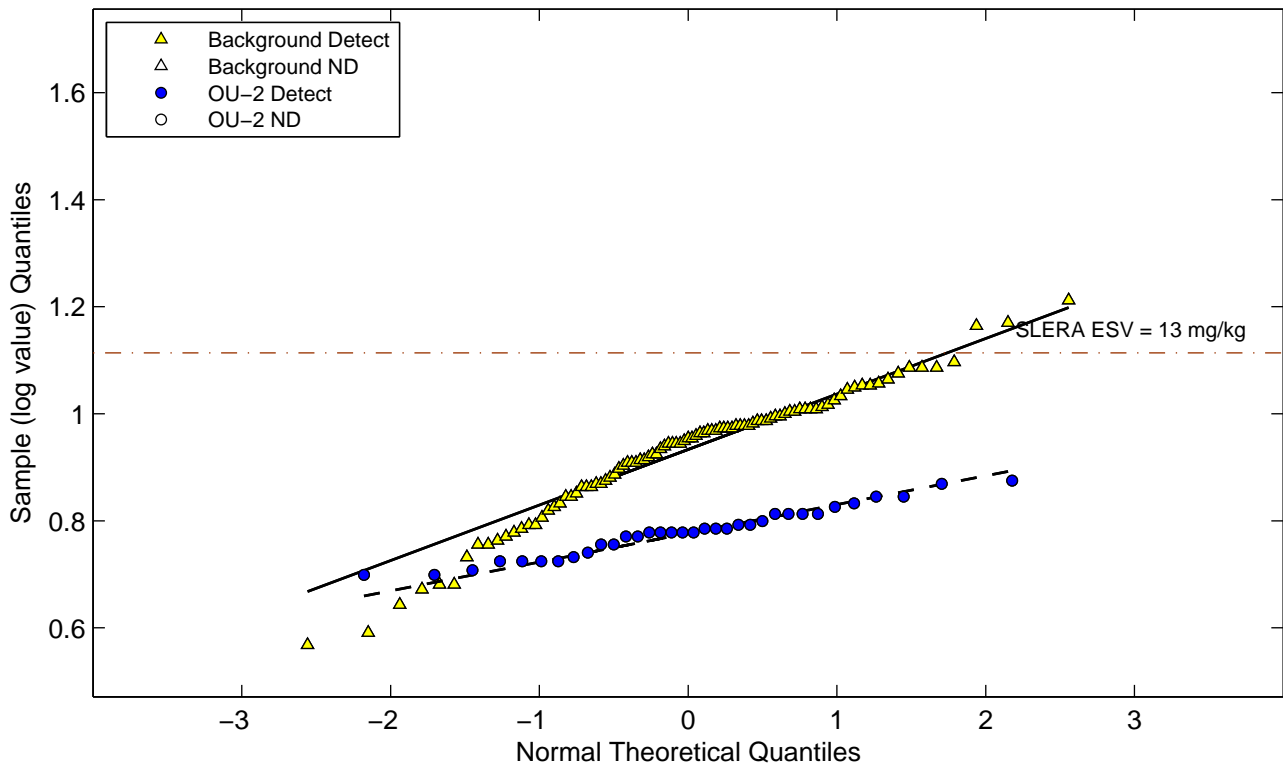
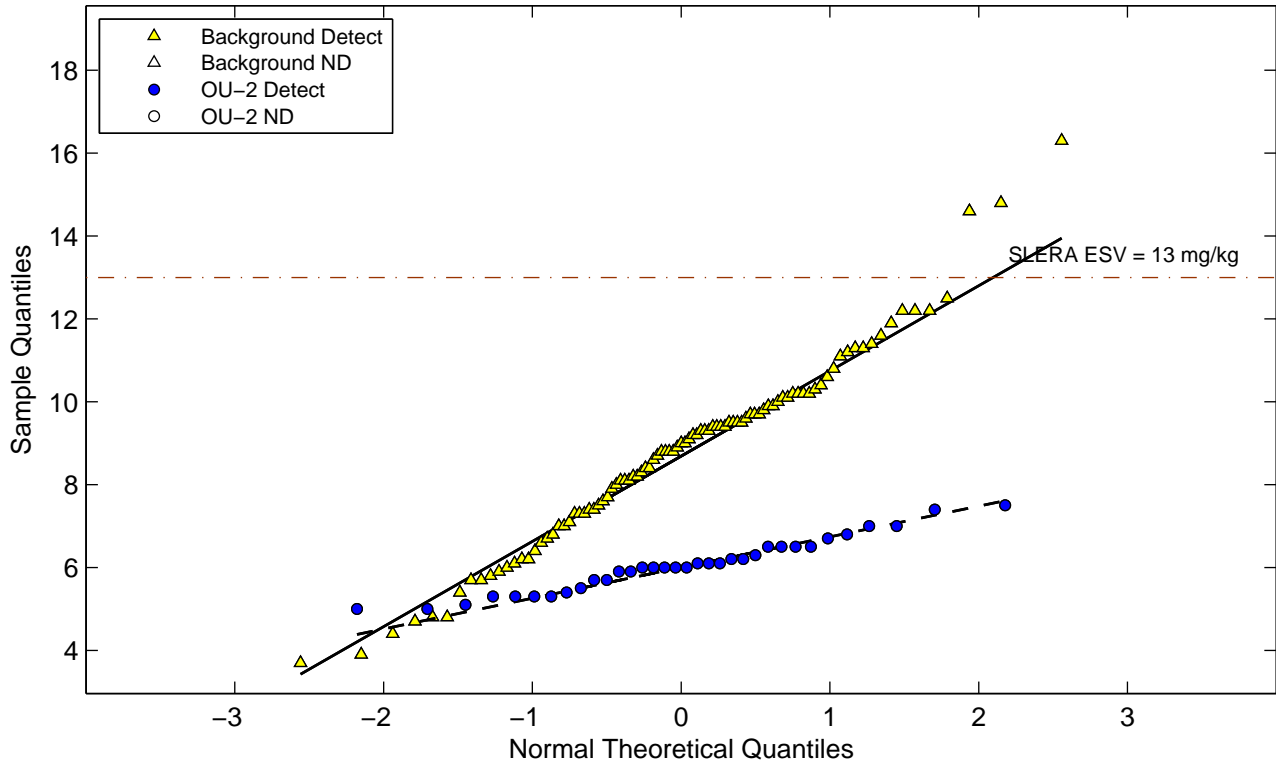


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Copper

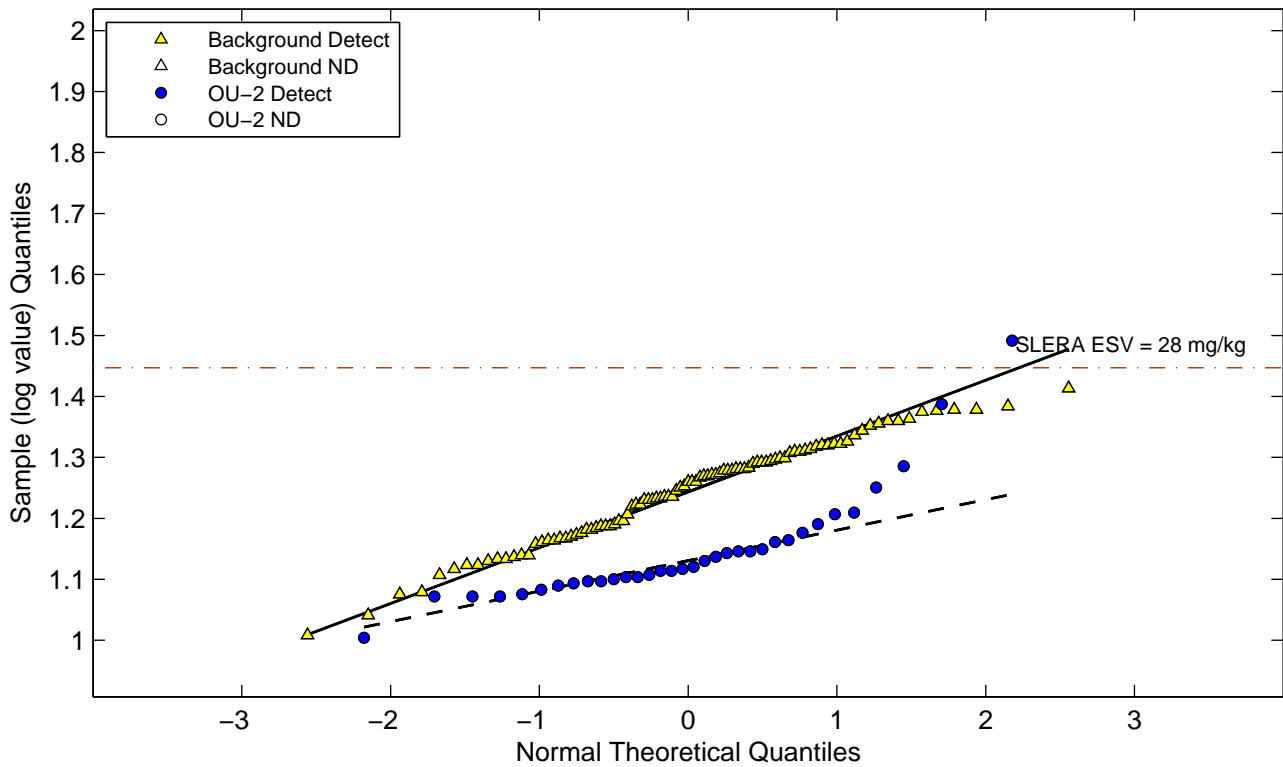
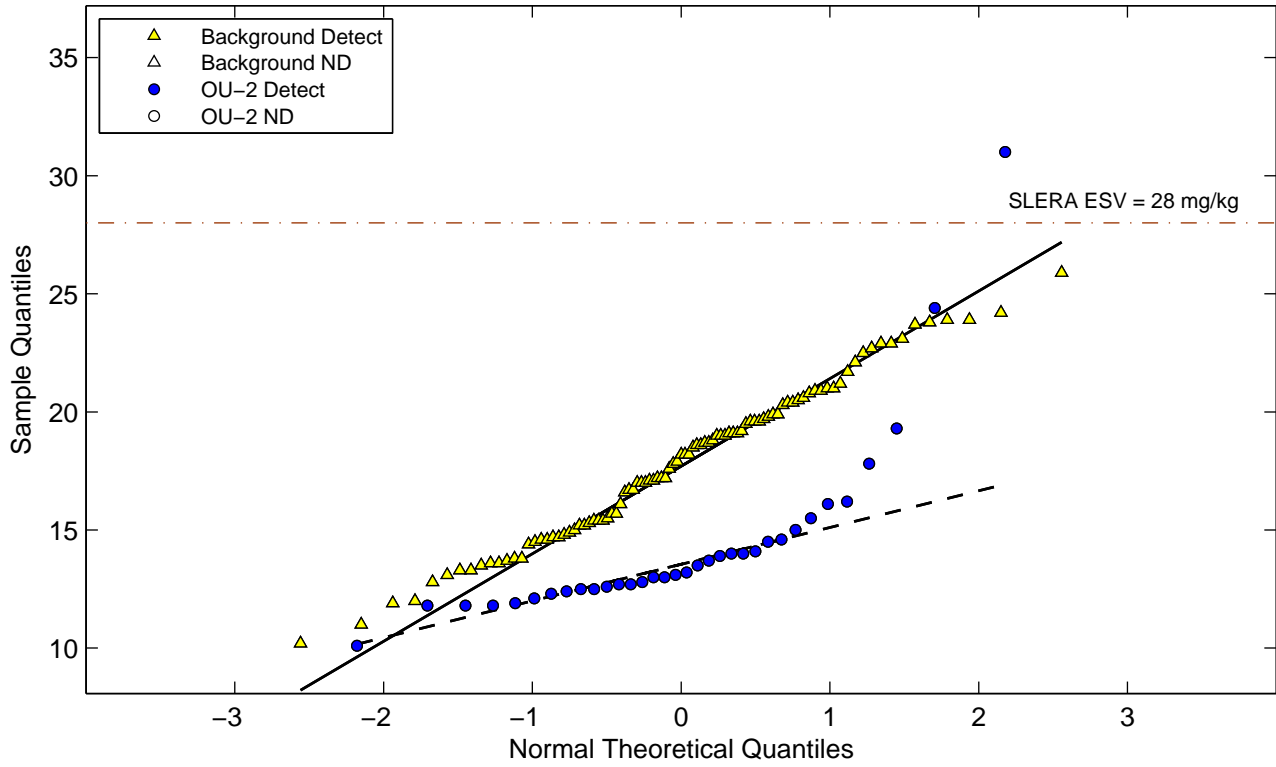


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Iron

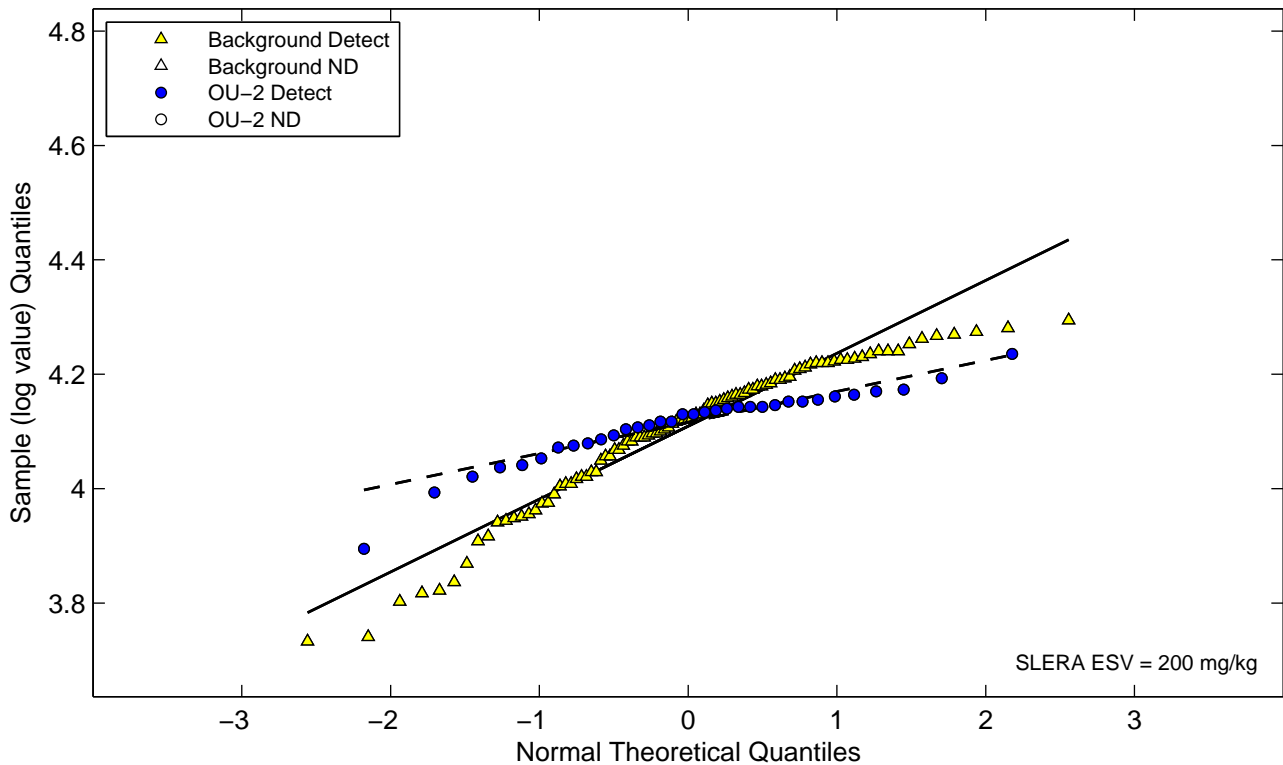
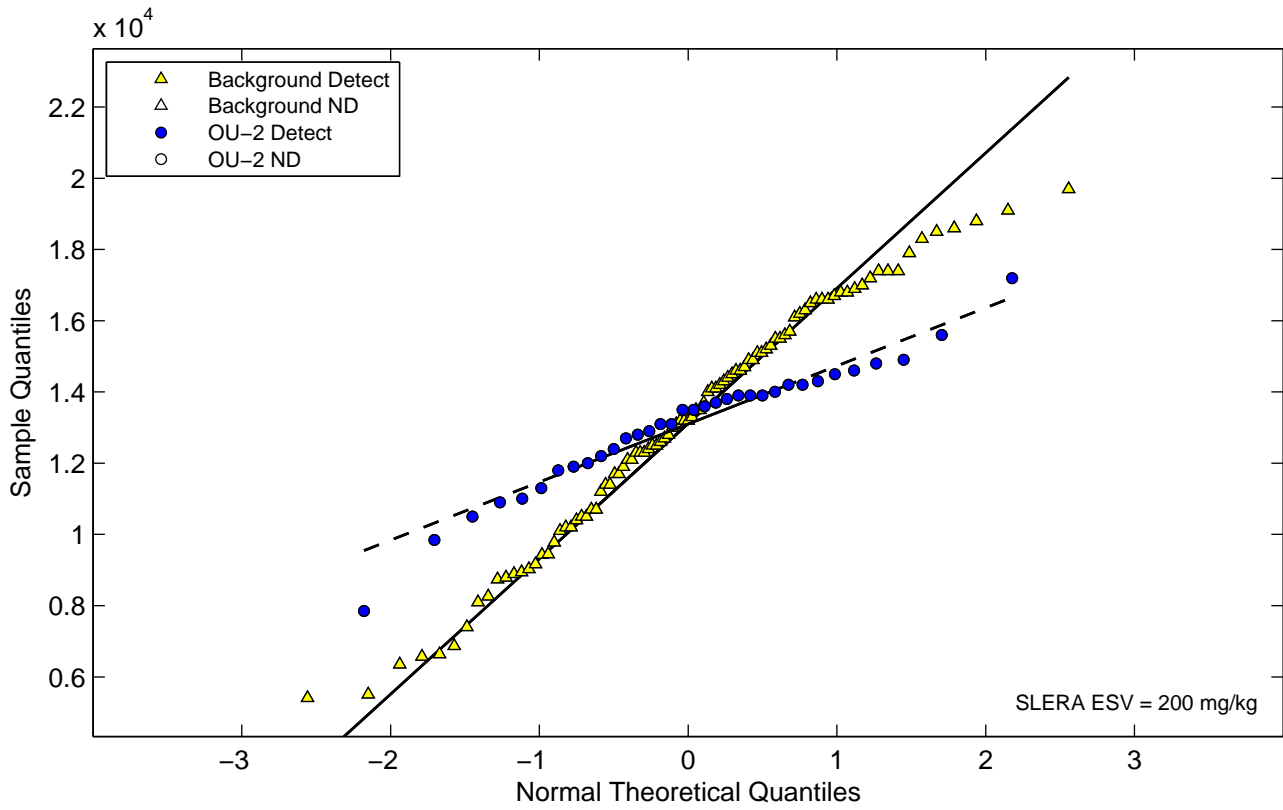


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Lead

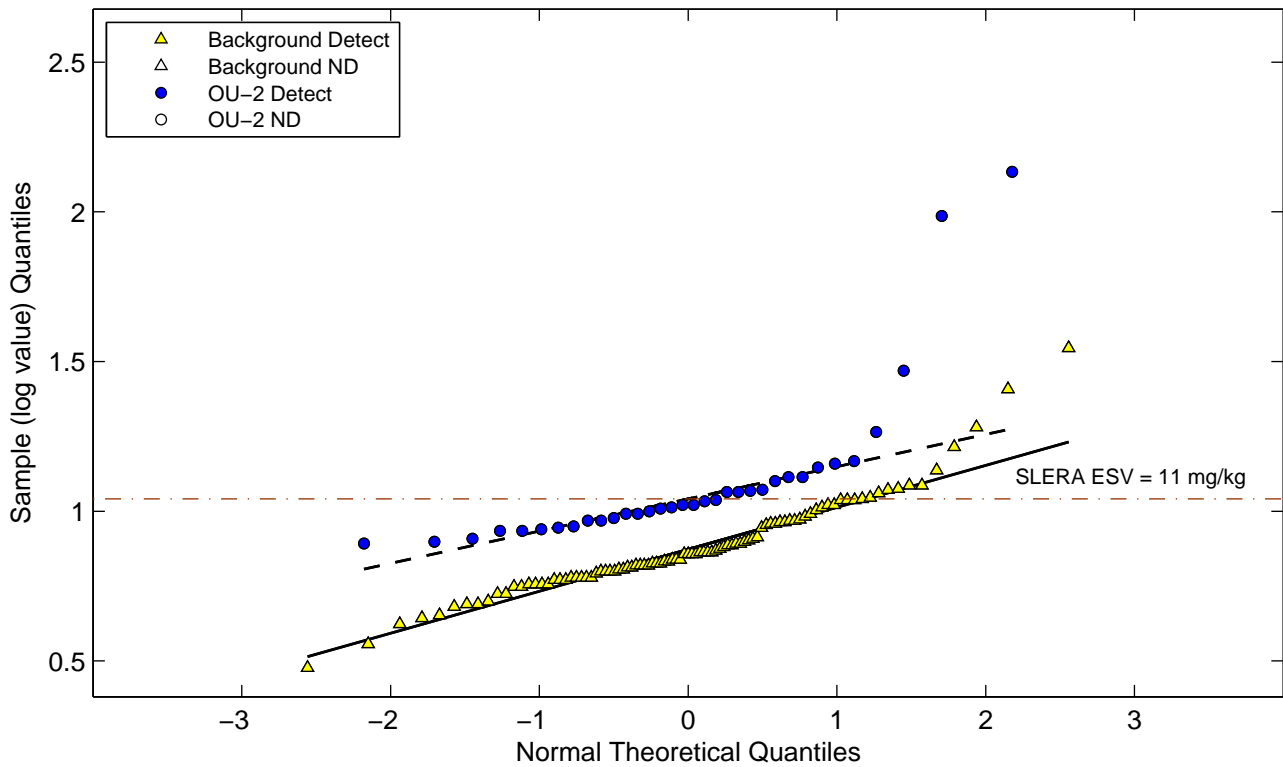
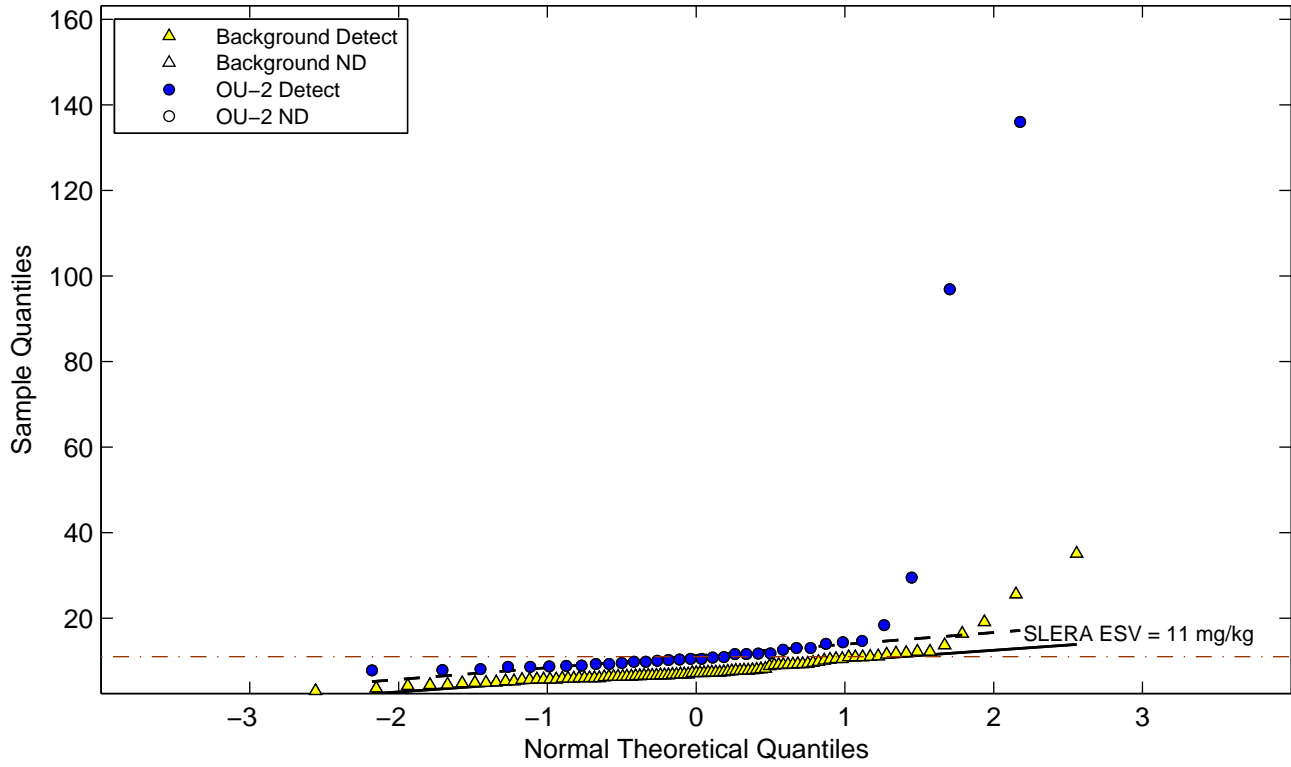


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Lithium

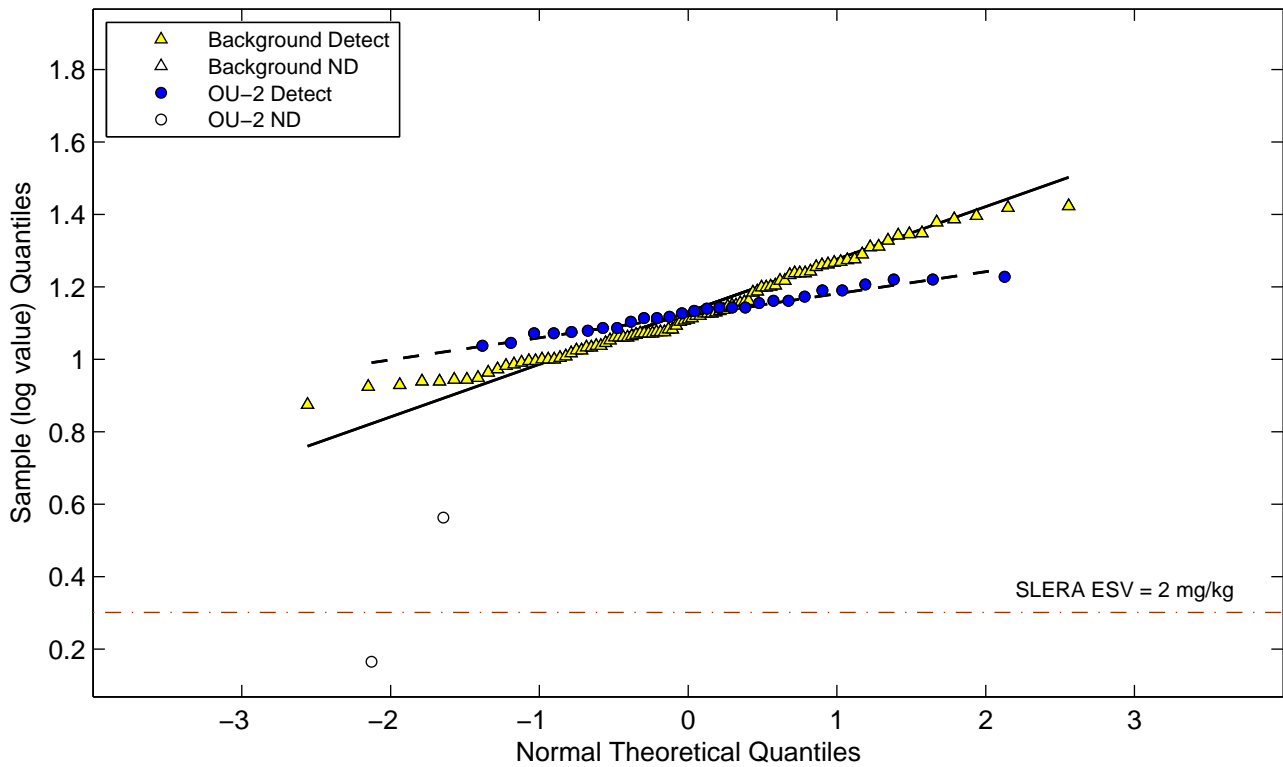
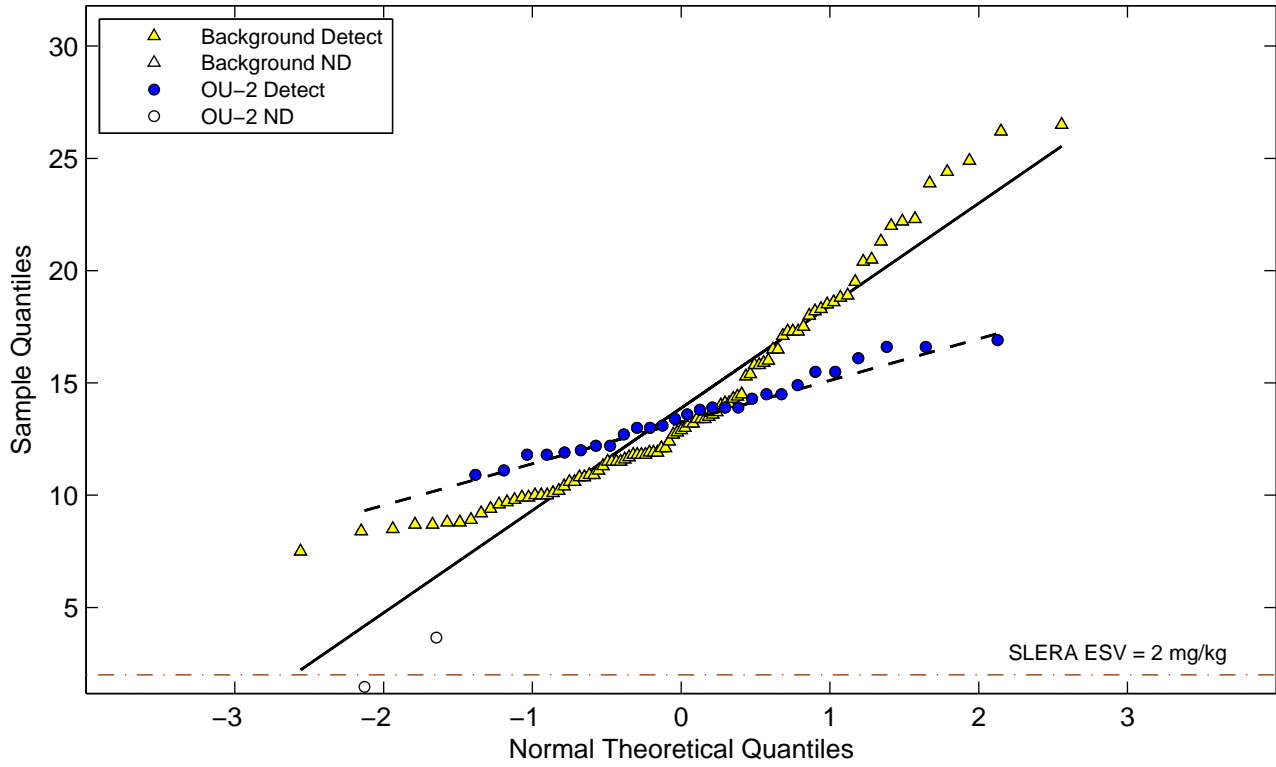


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Magnesium

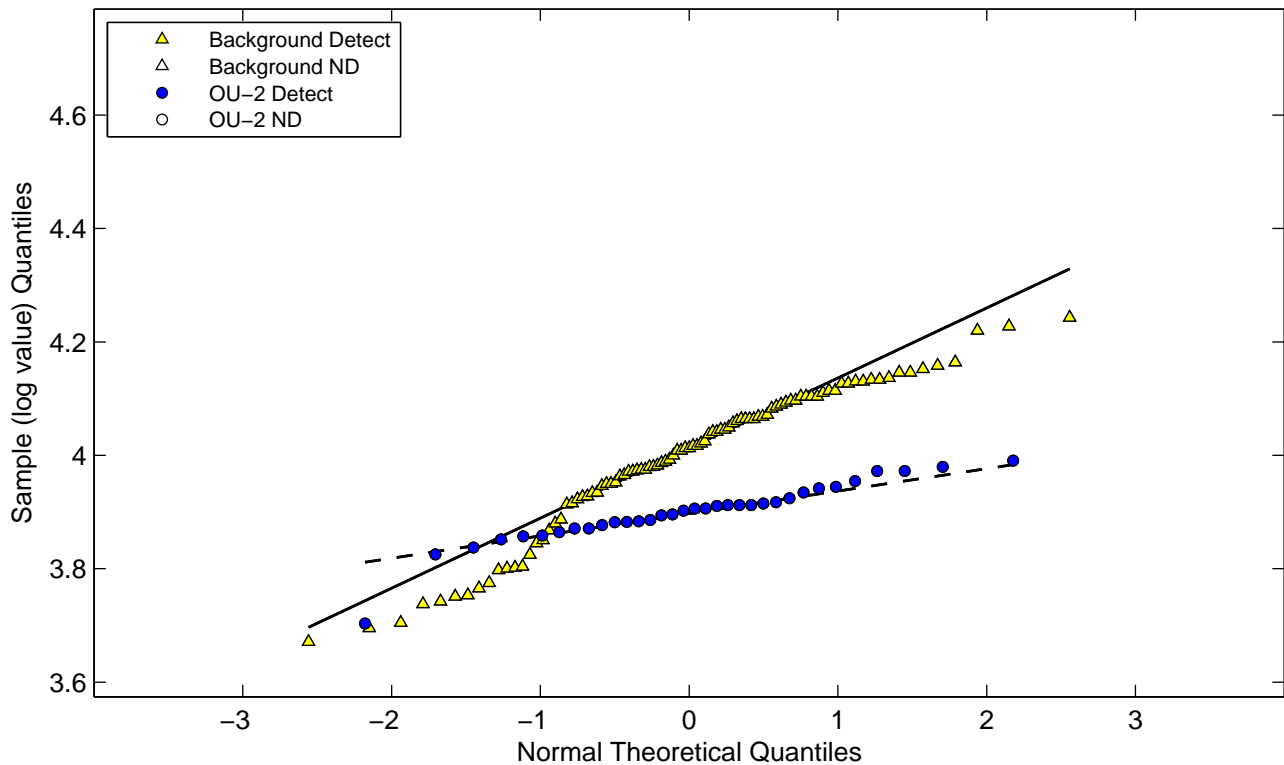
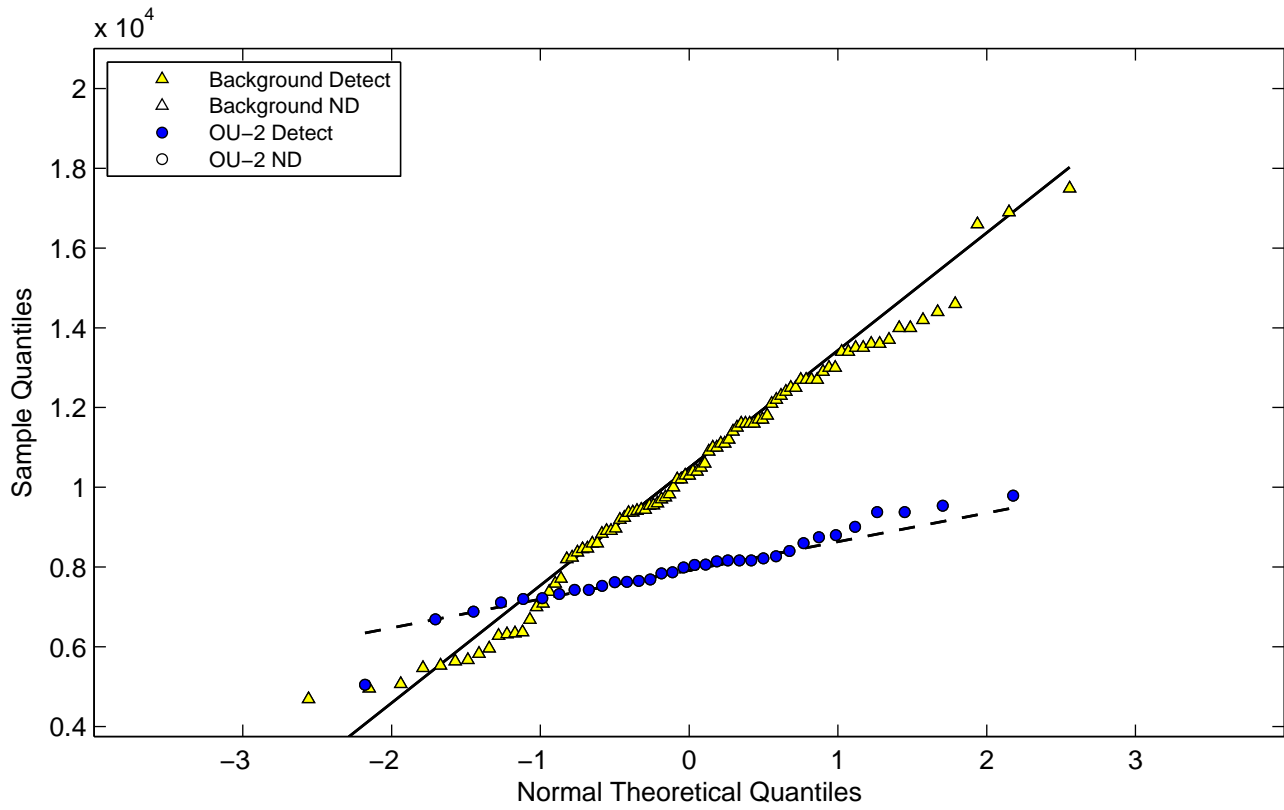
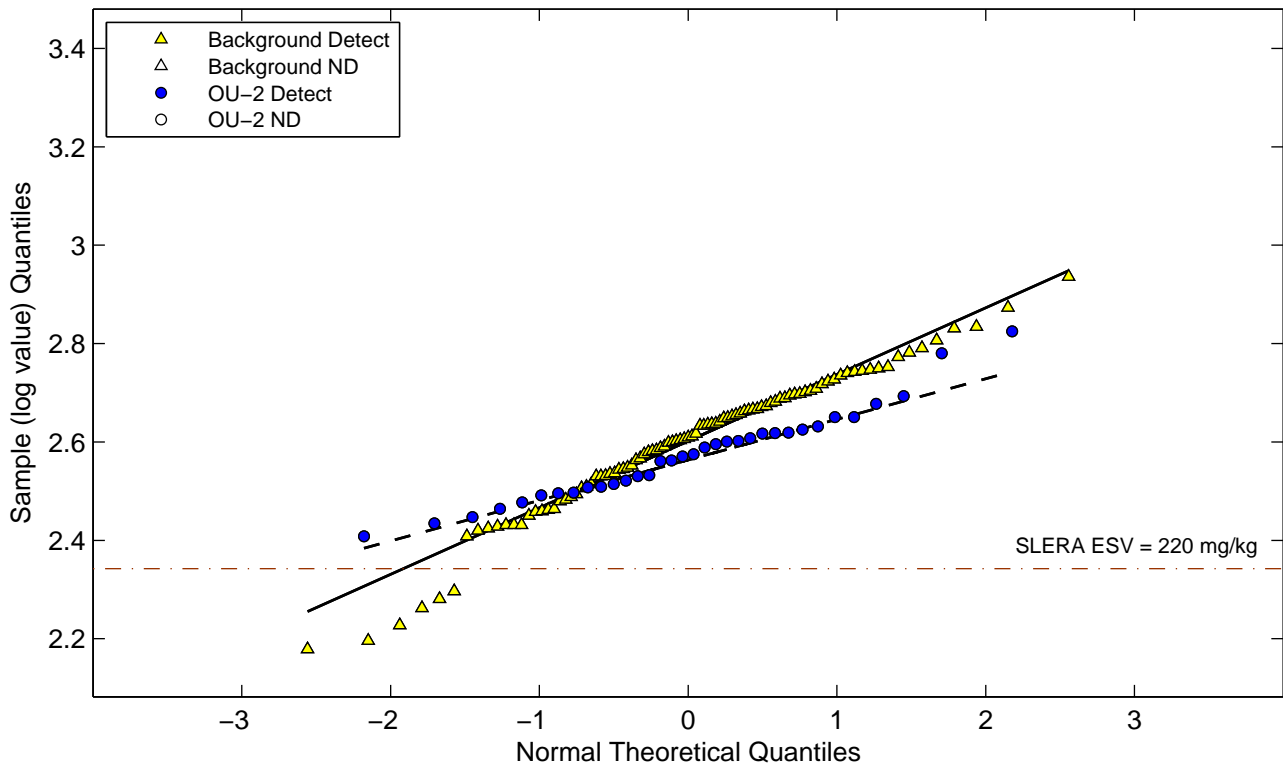
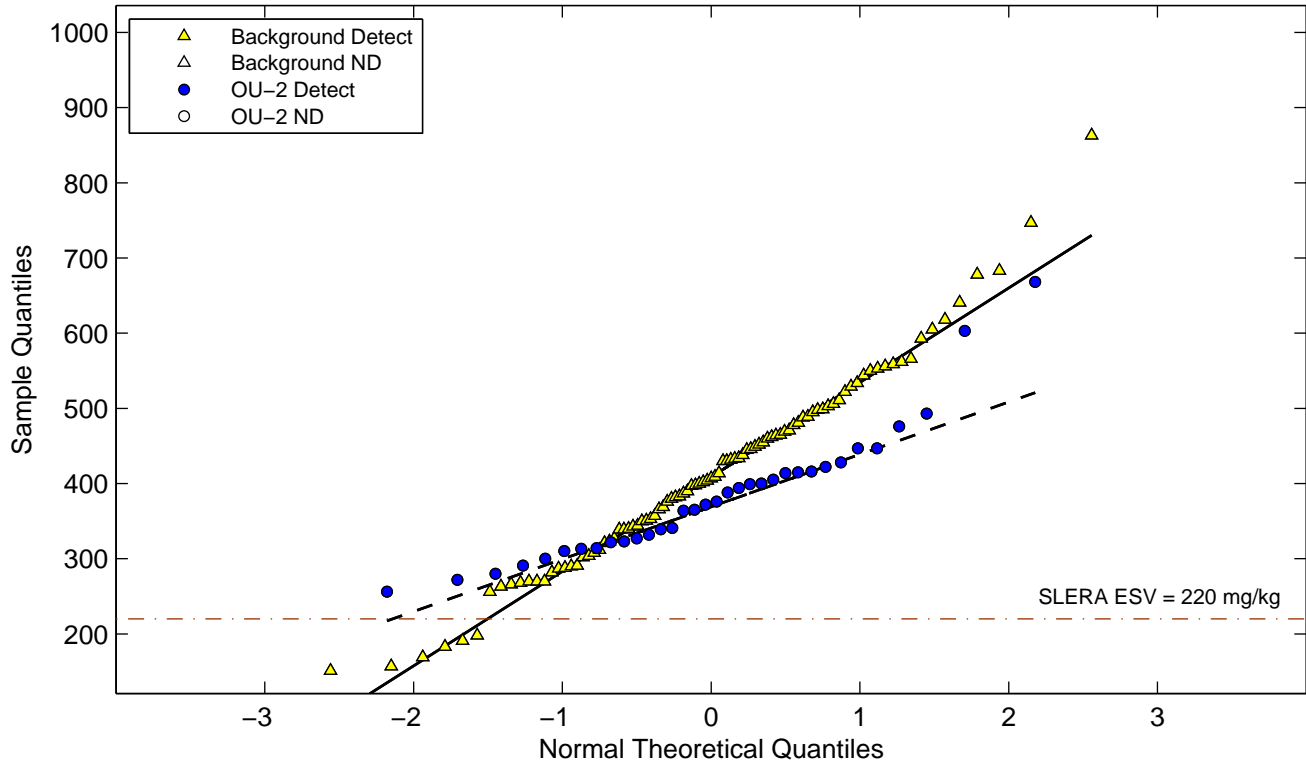
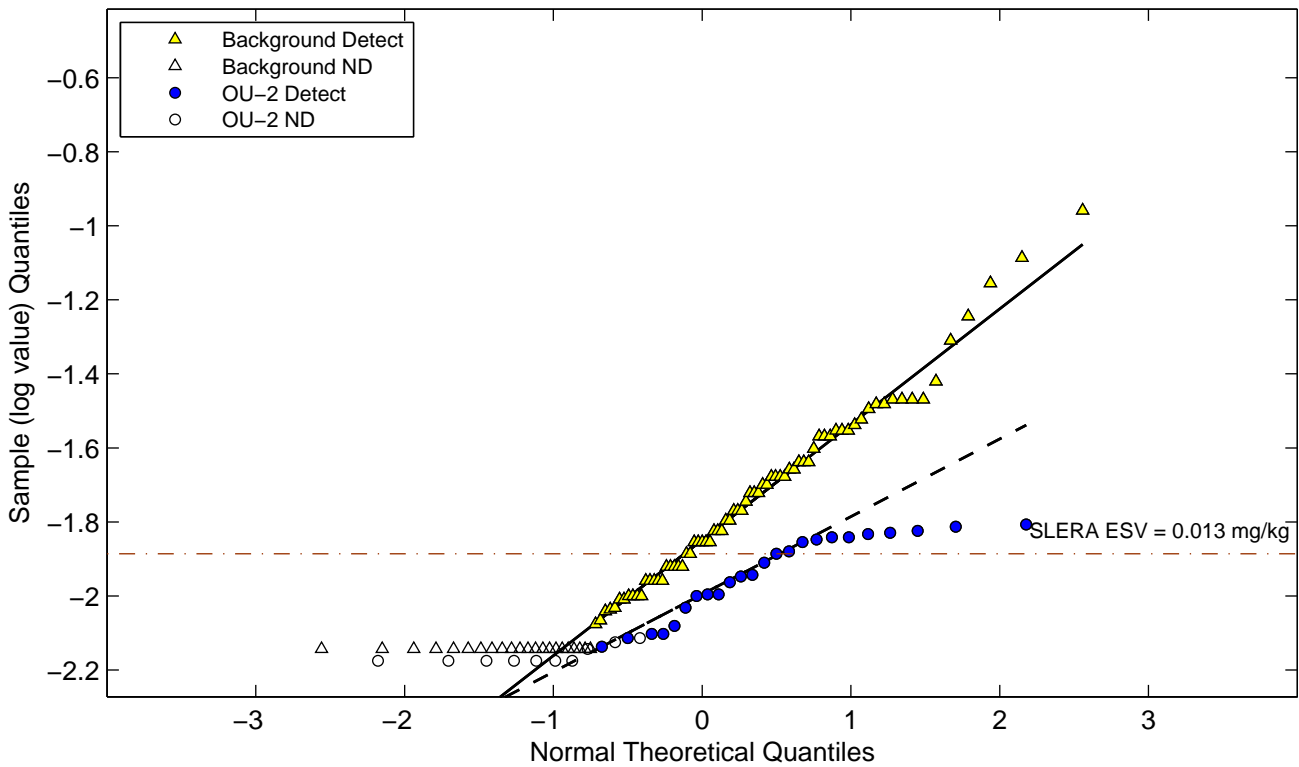
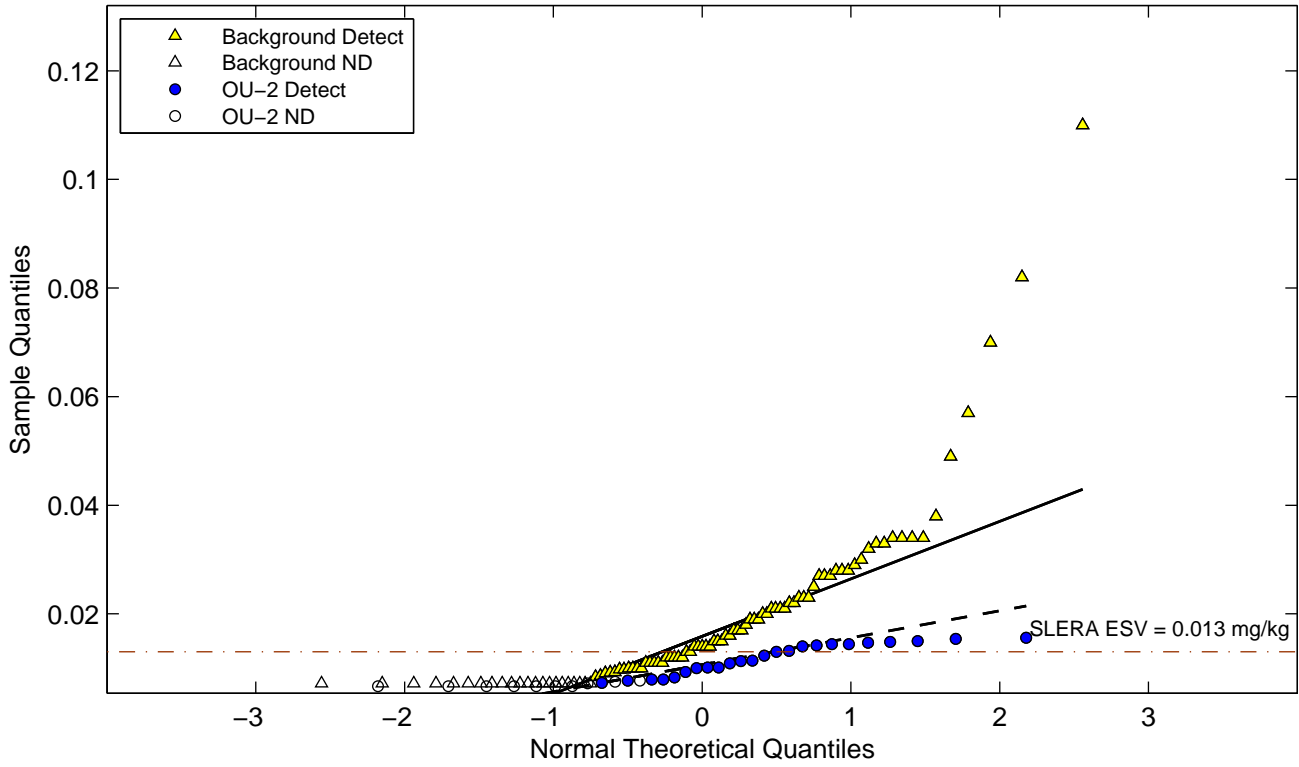


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Manganese



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Mercury**



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Molybdenum**

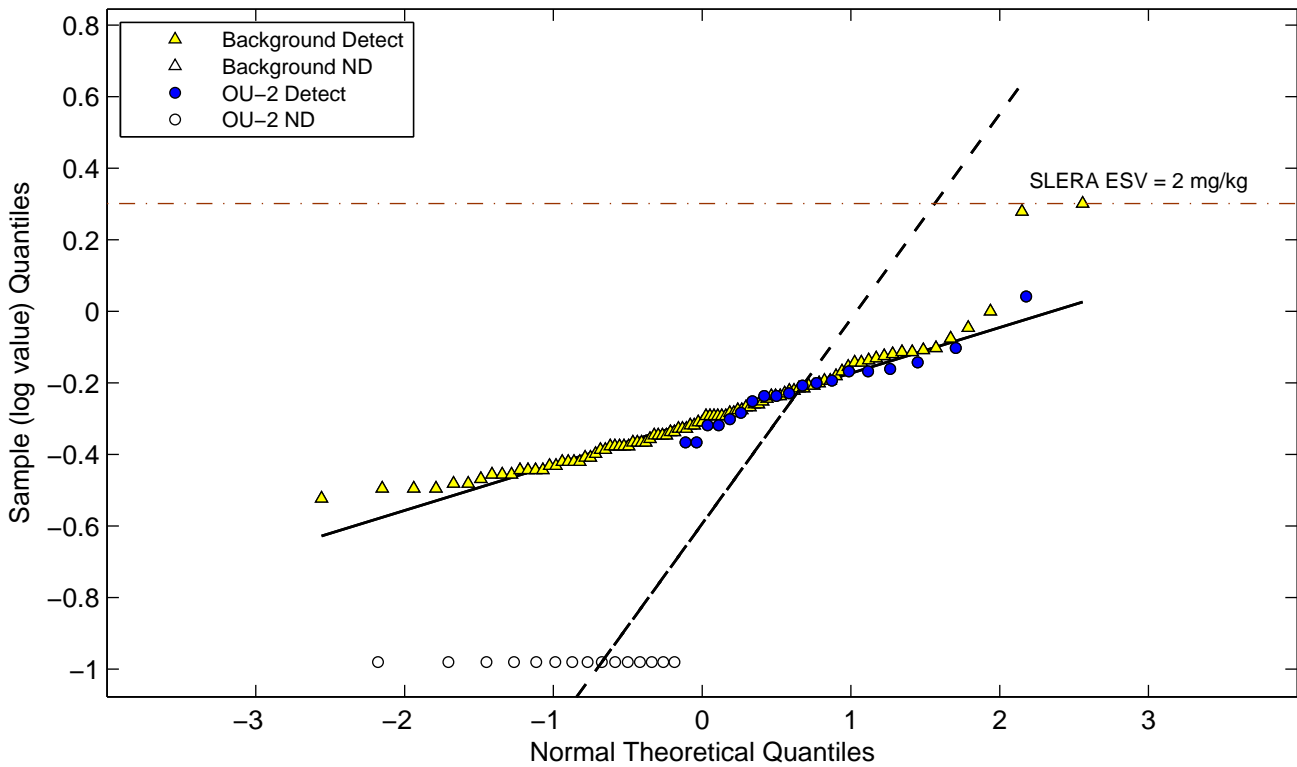
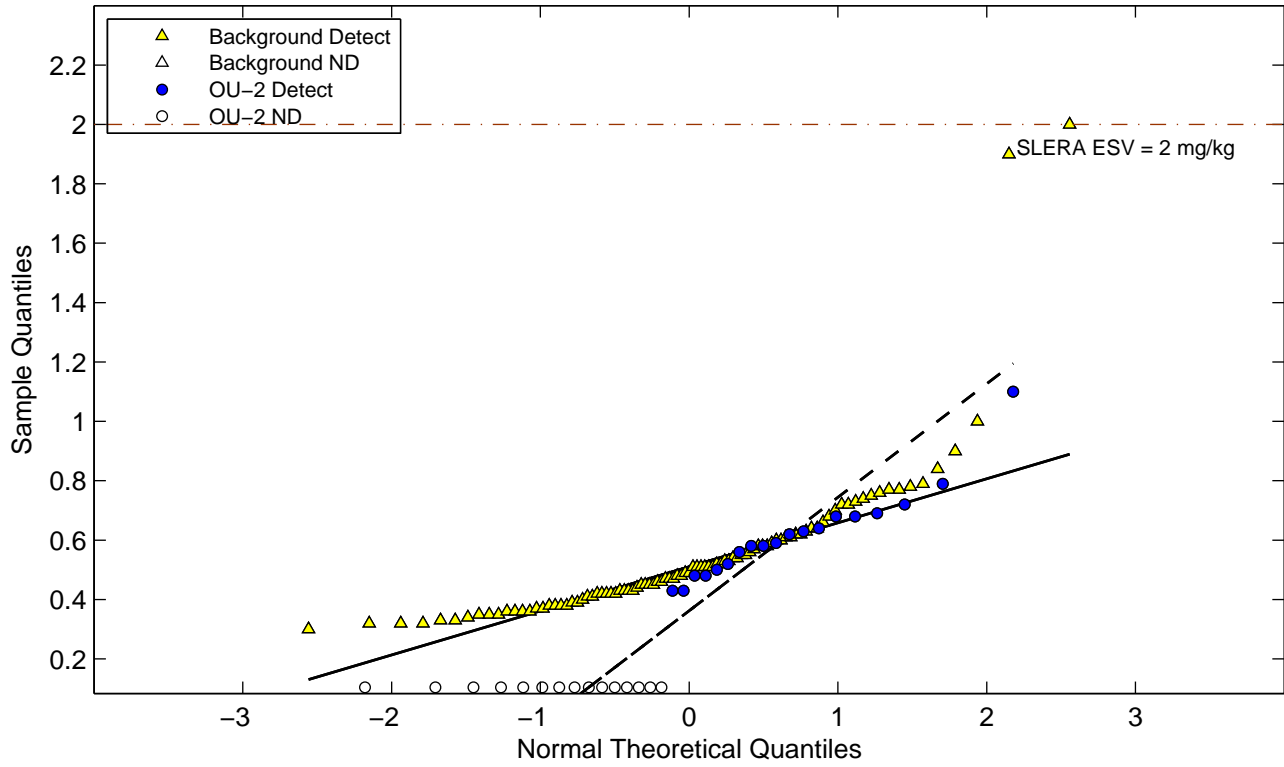
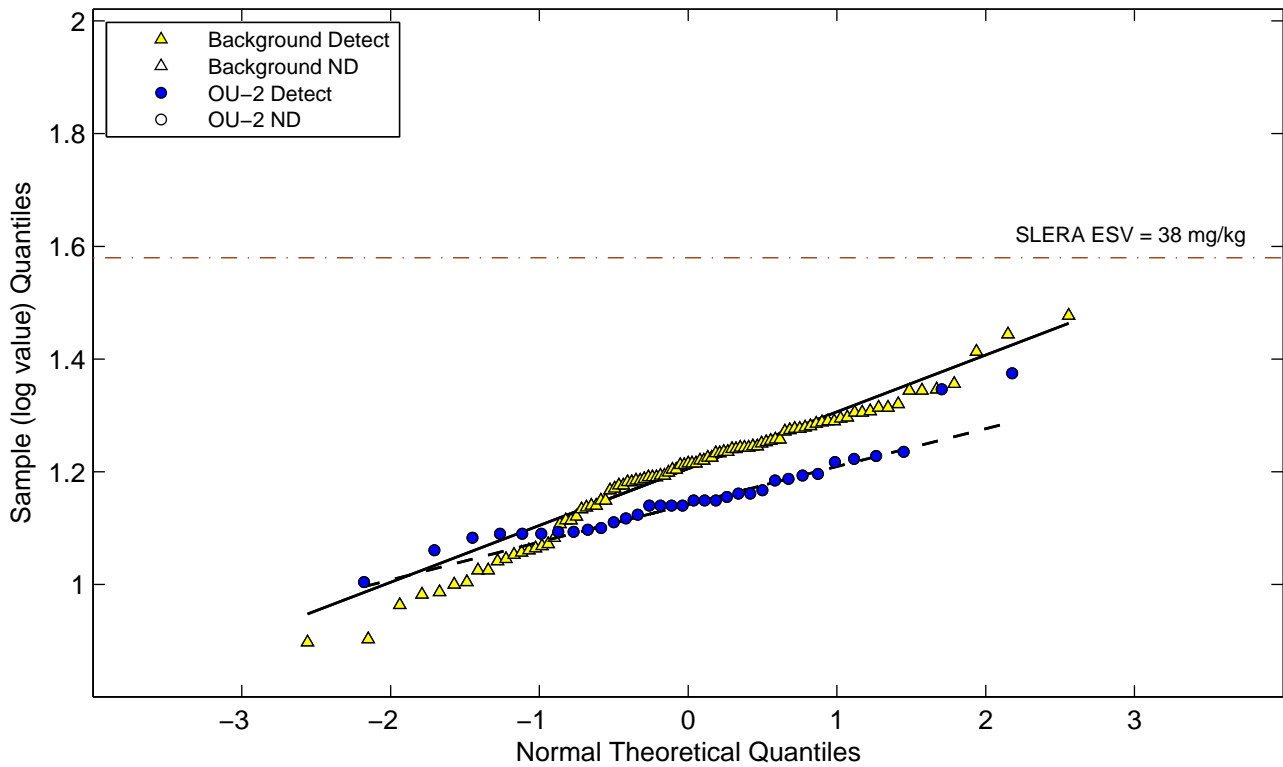
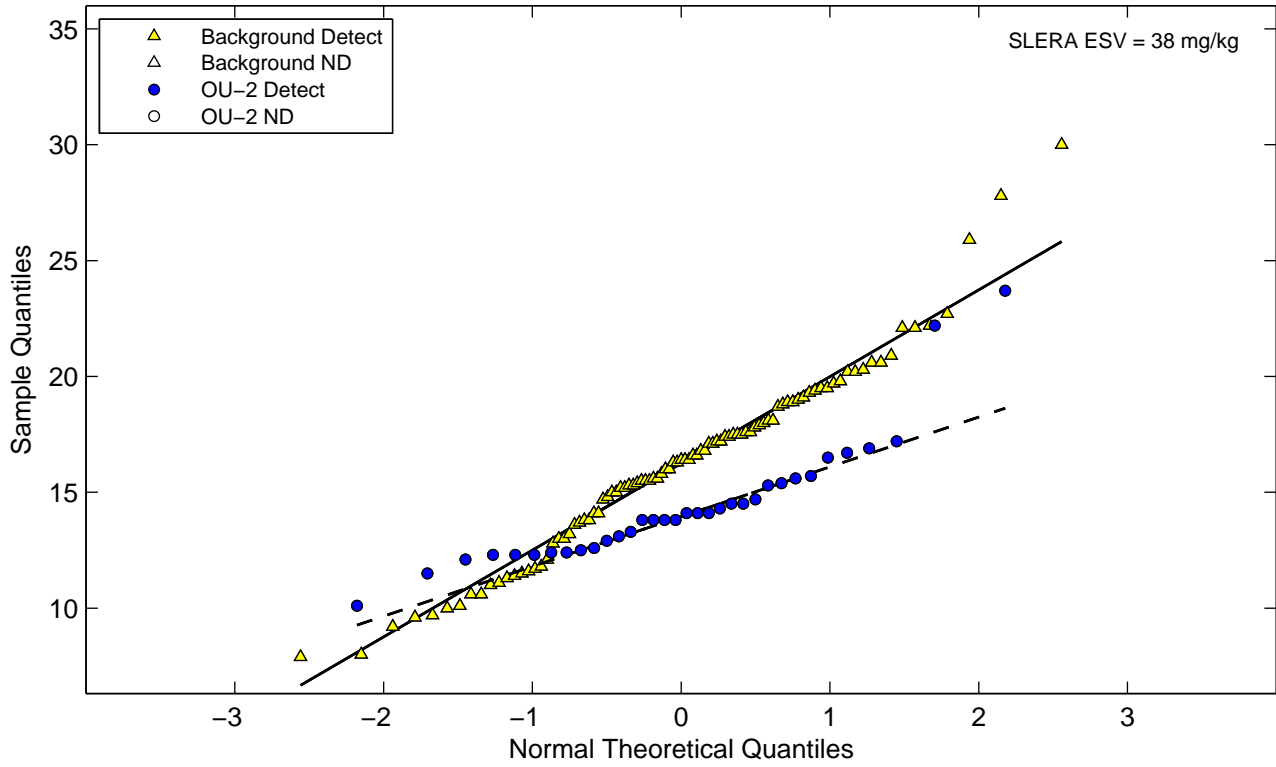


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Nickel



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Niobium**

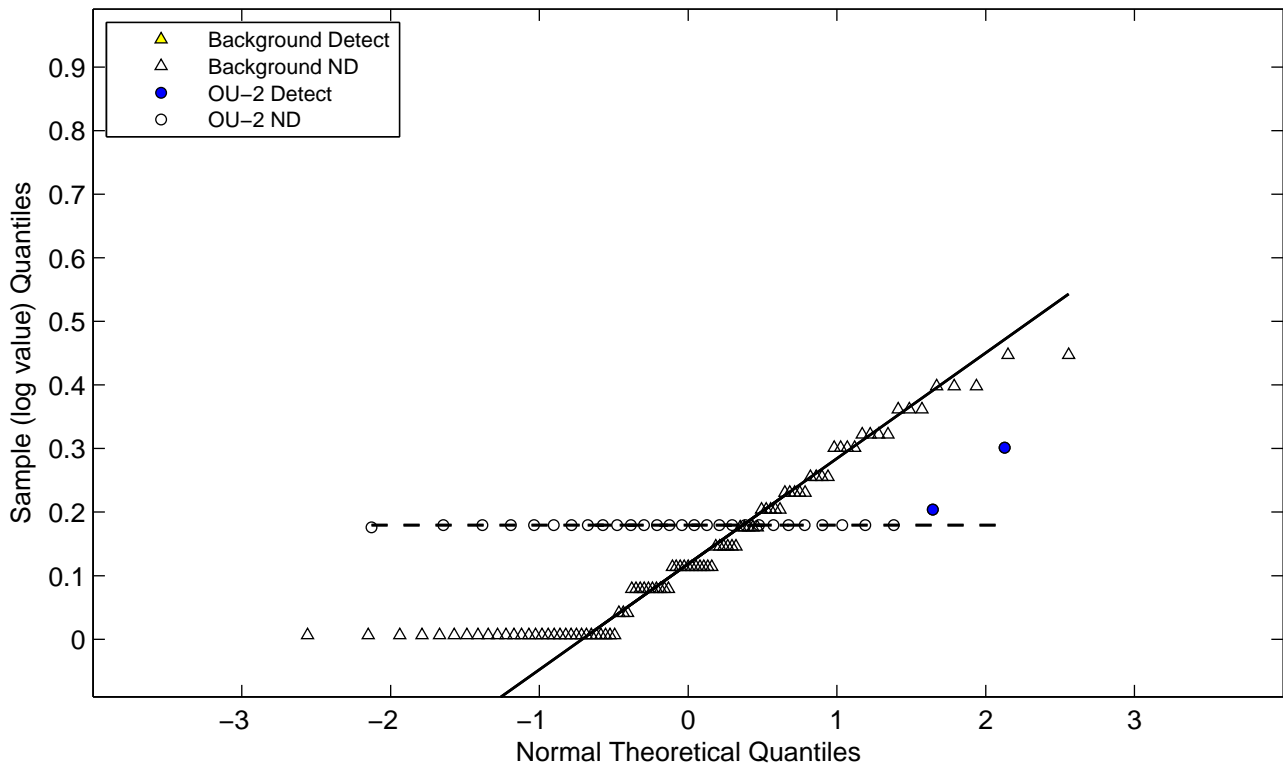
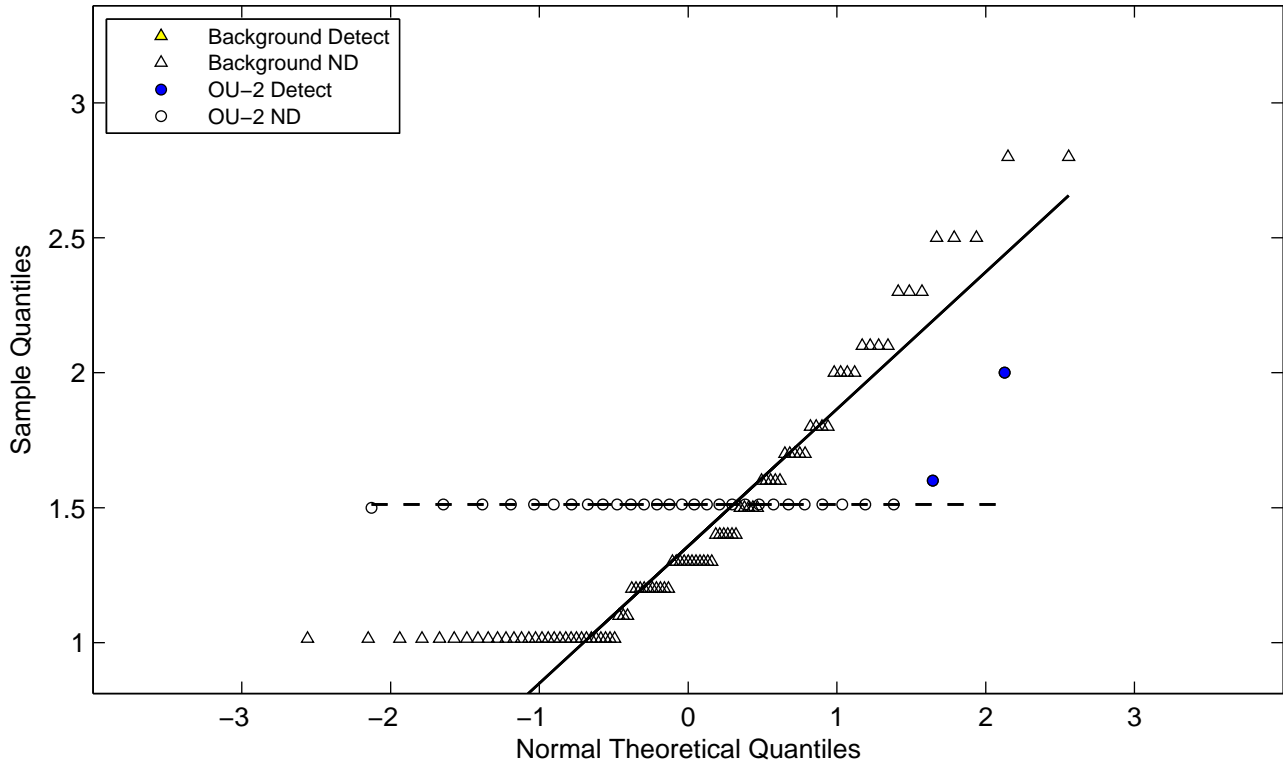


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Palladium

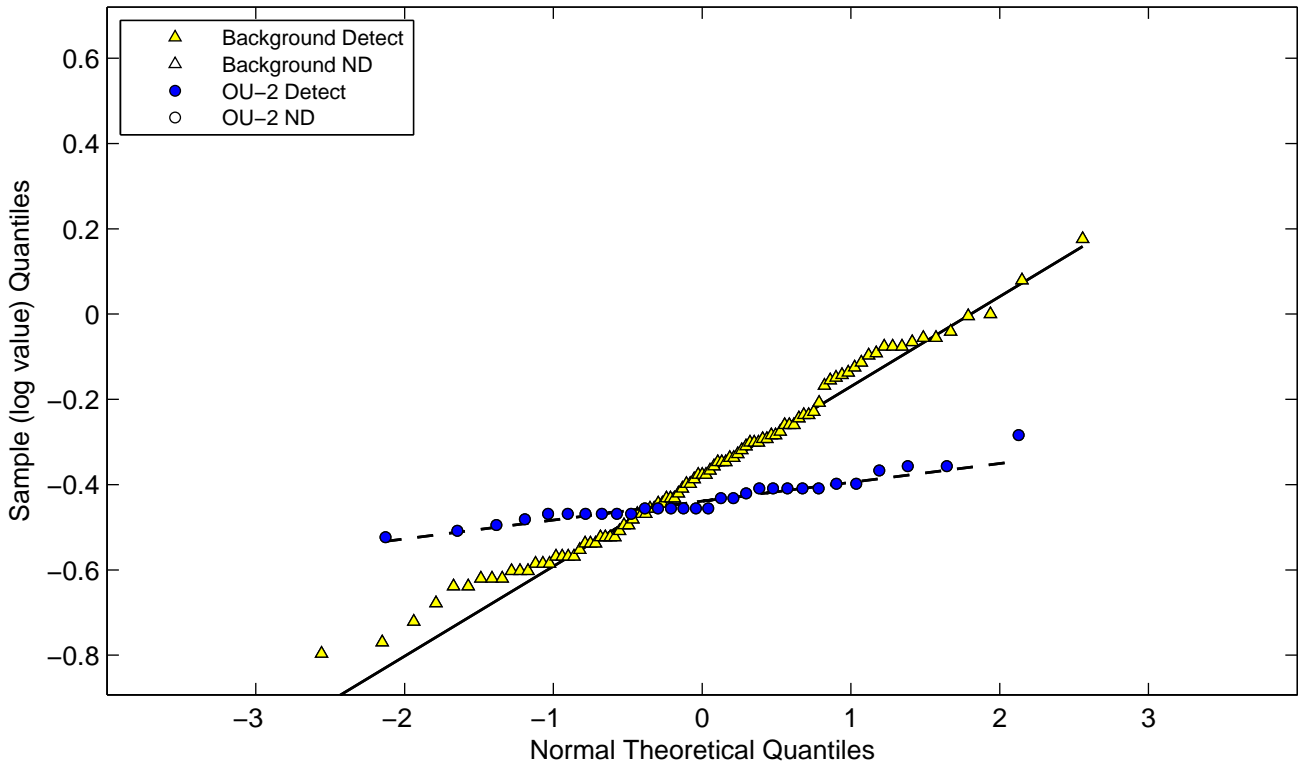
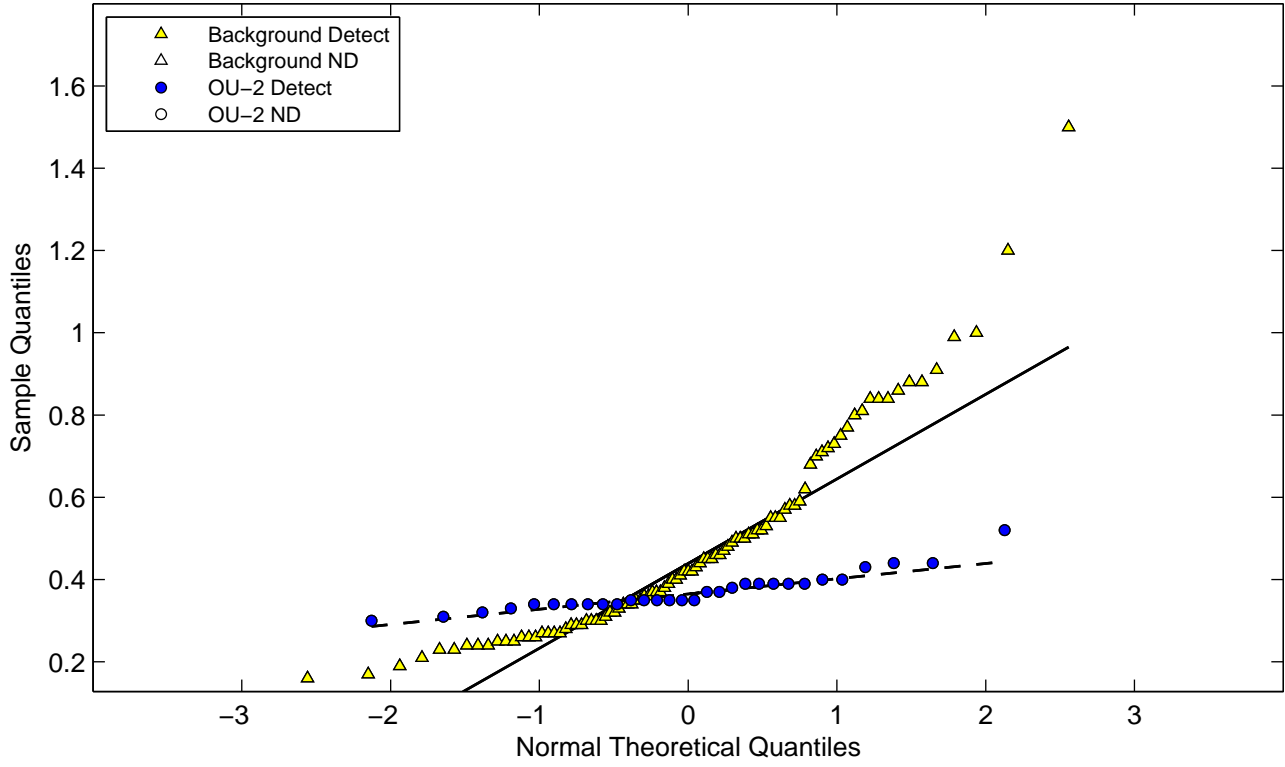


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Phosphorus (total)

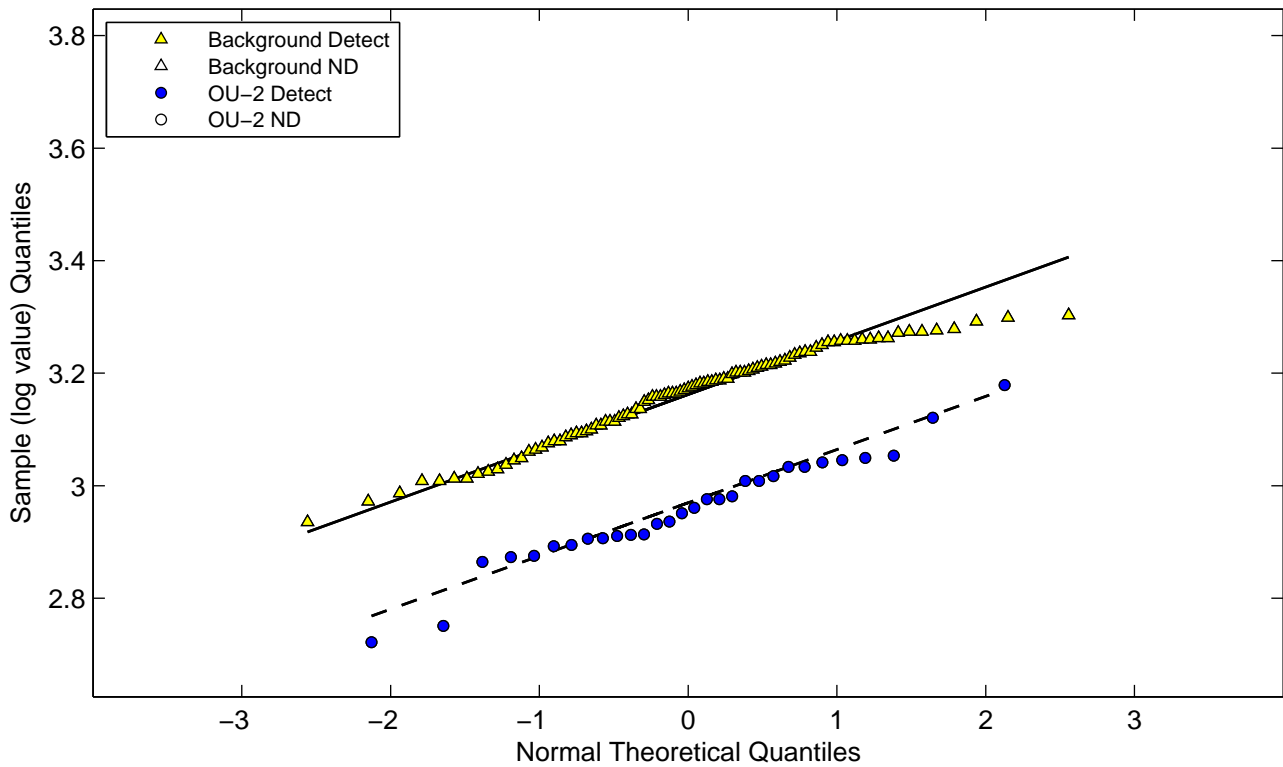
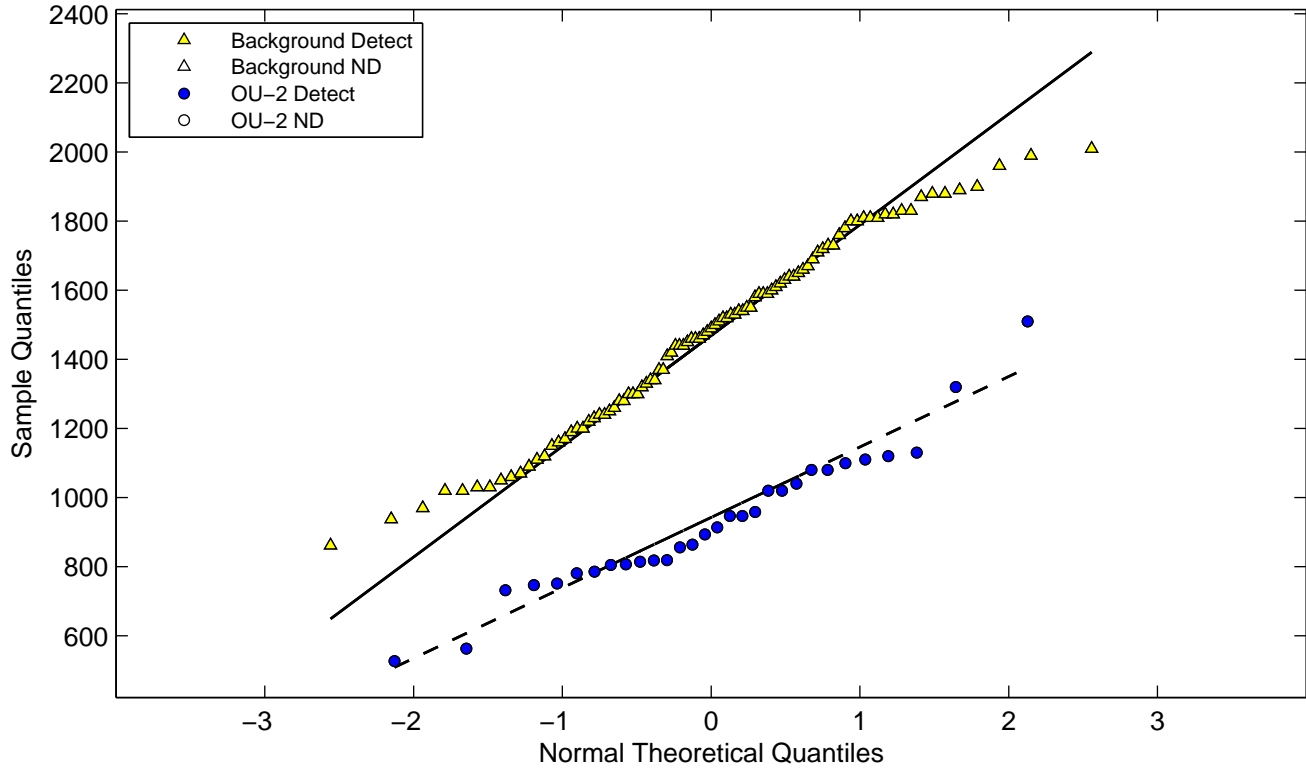


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Platinum

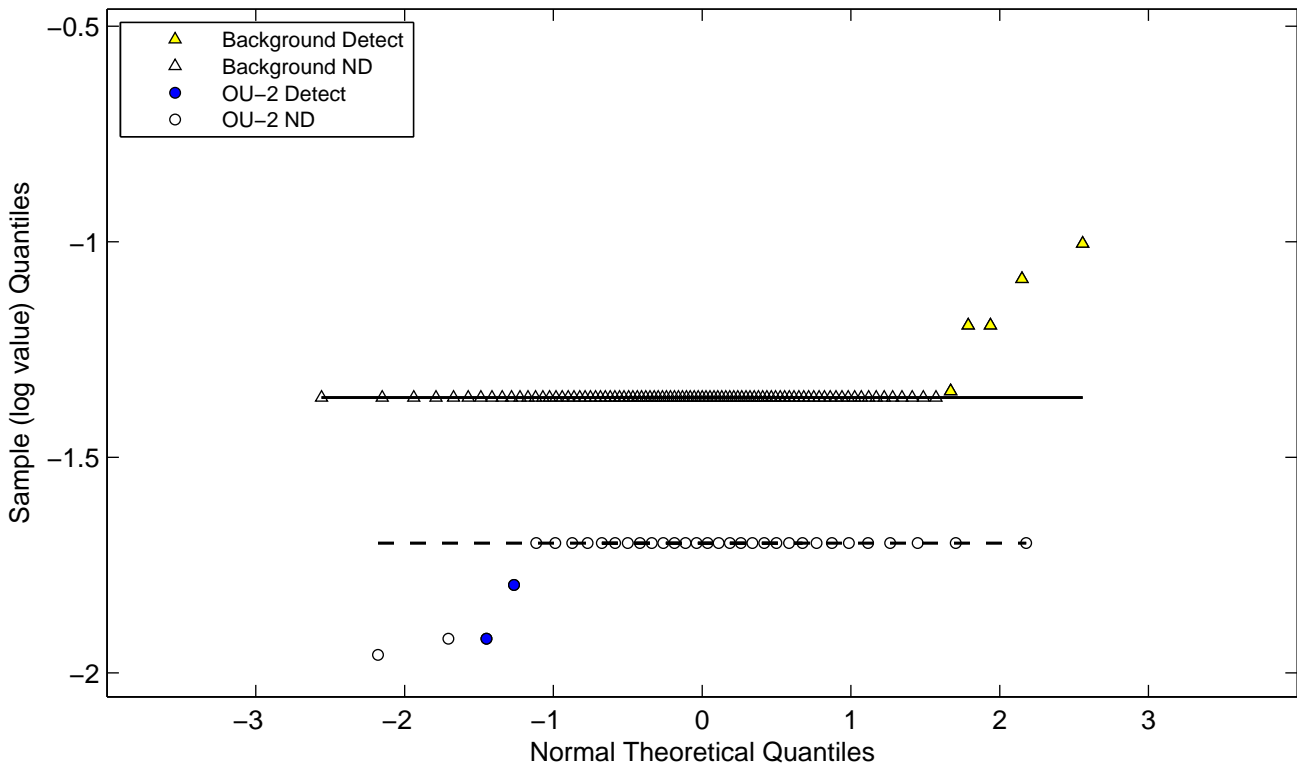
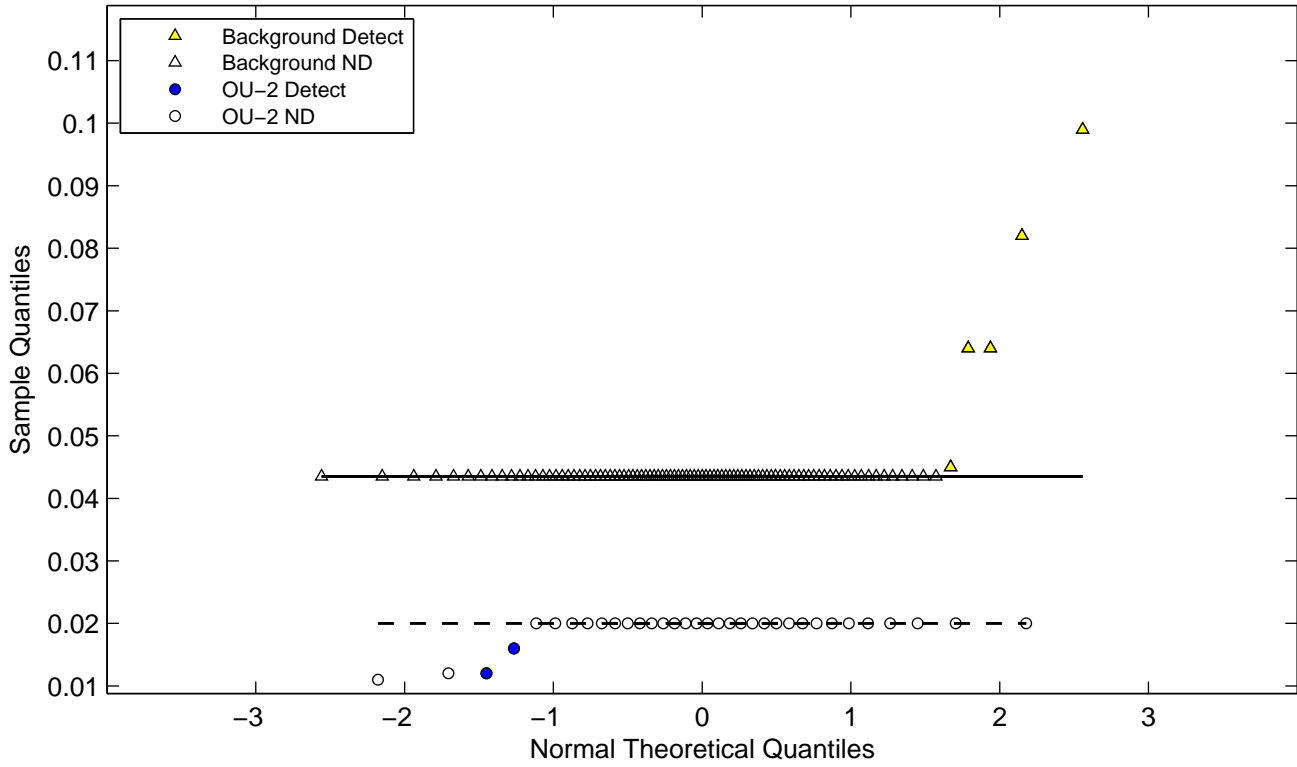
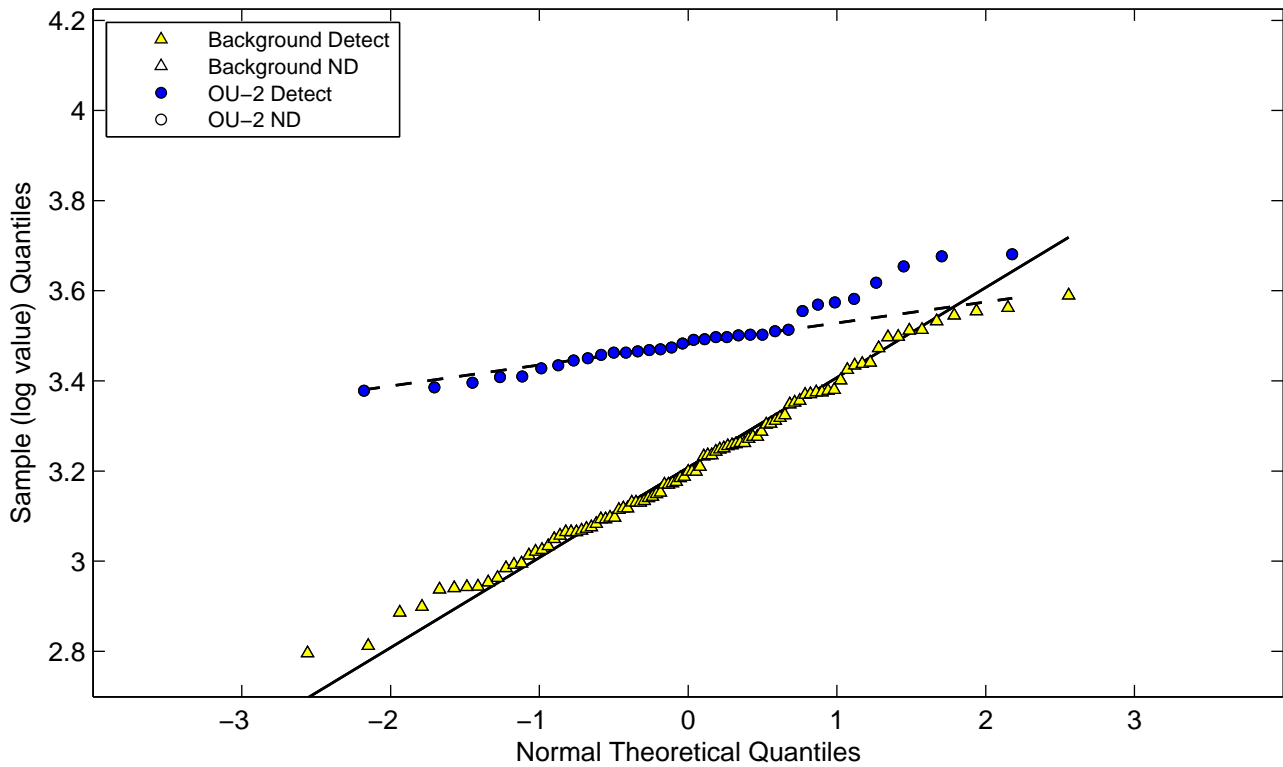
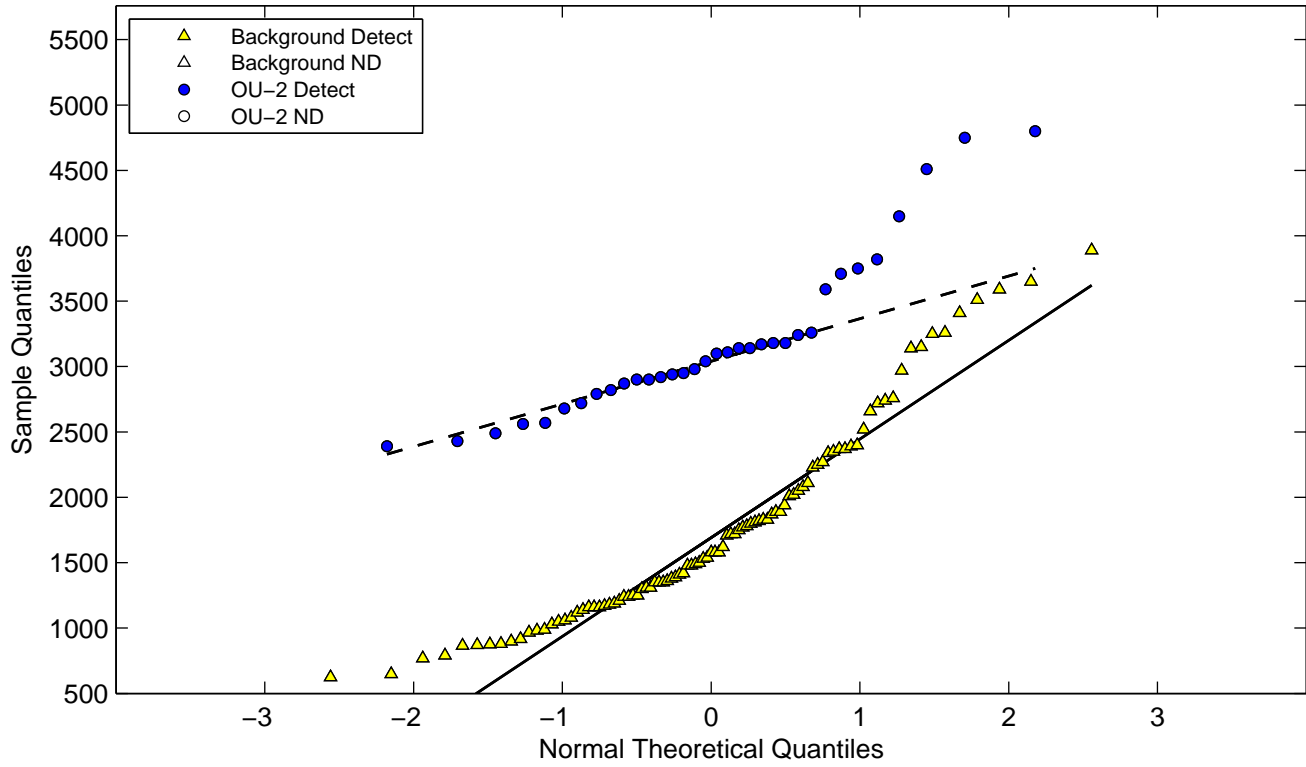


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Potassium



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Selenium**

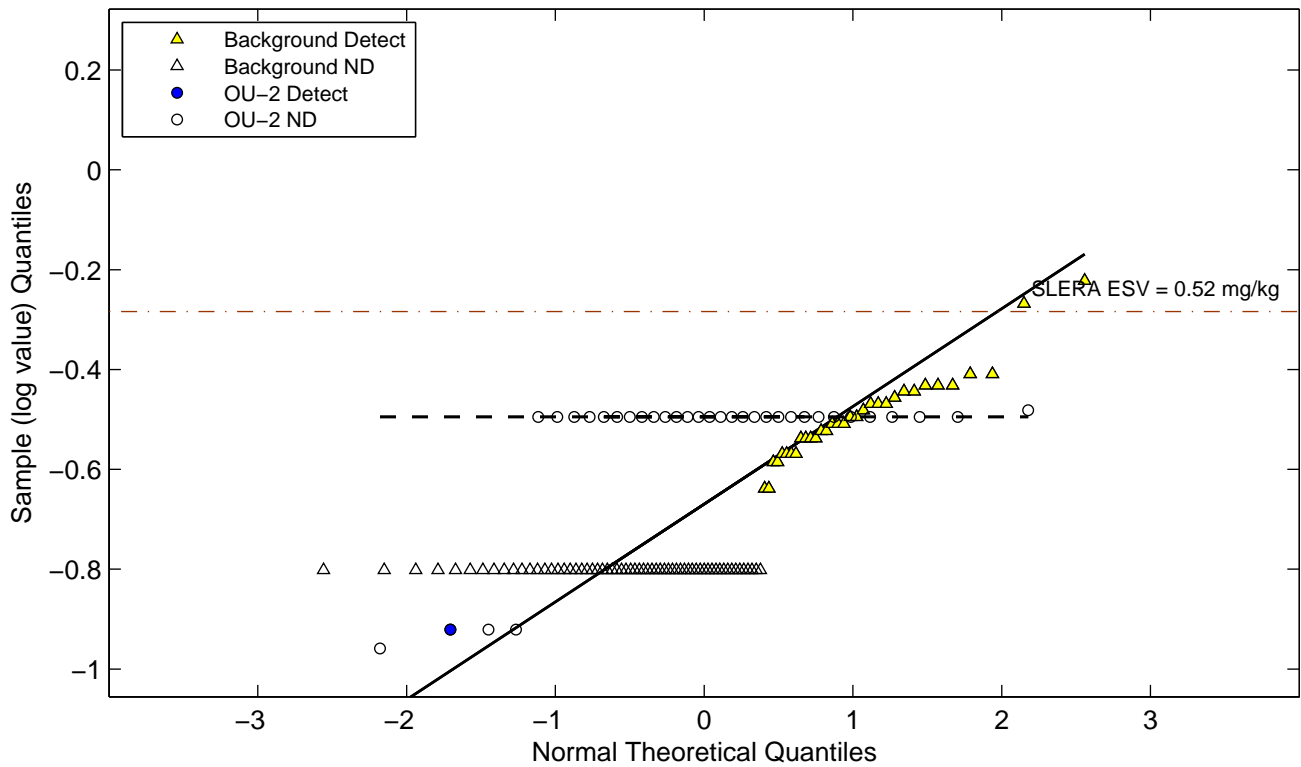
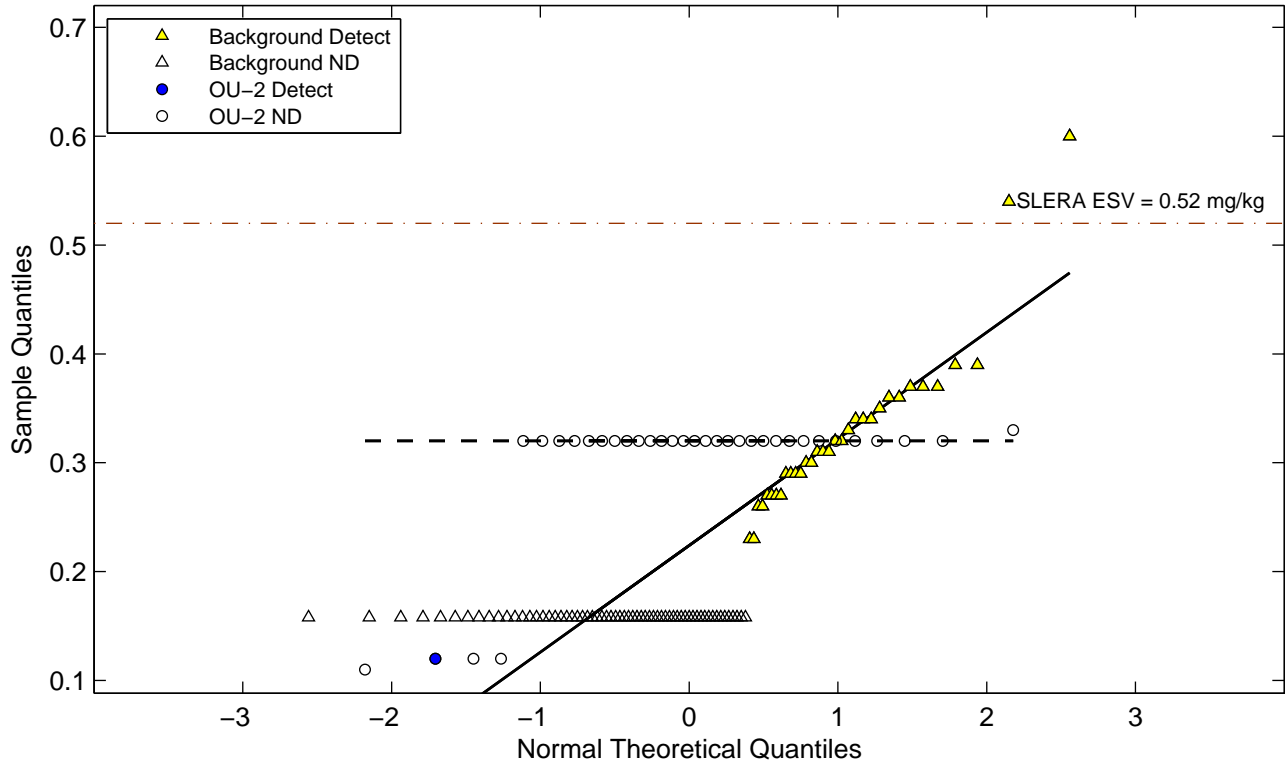


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Silicon

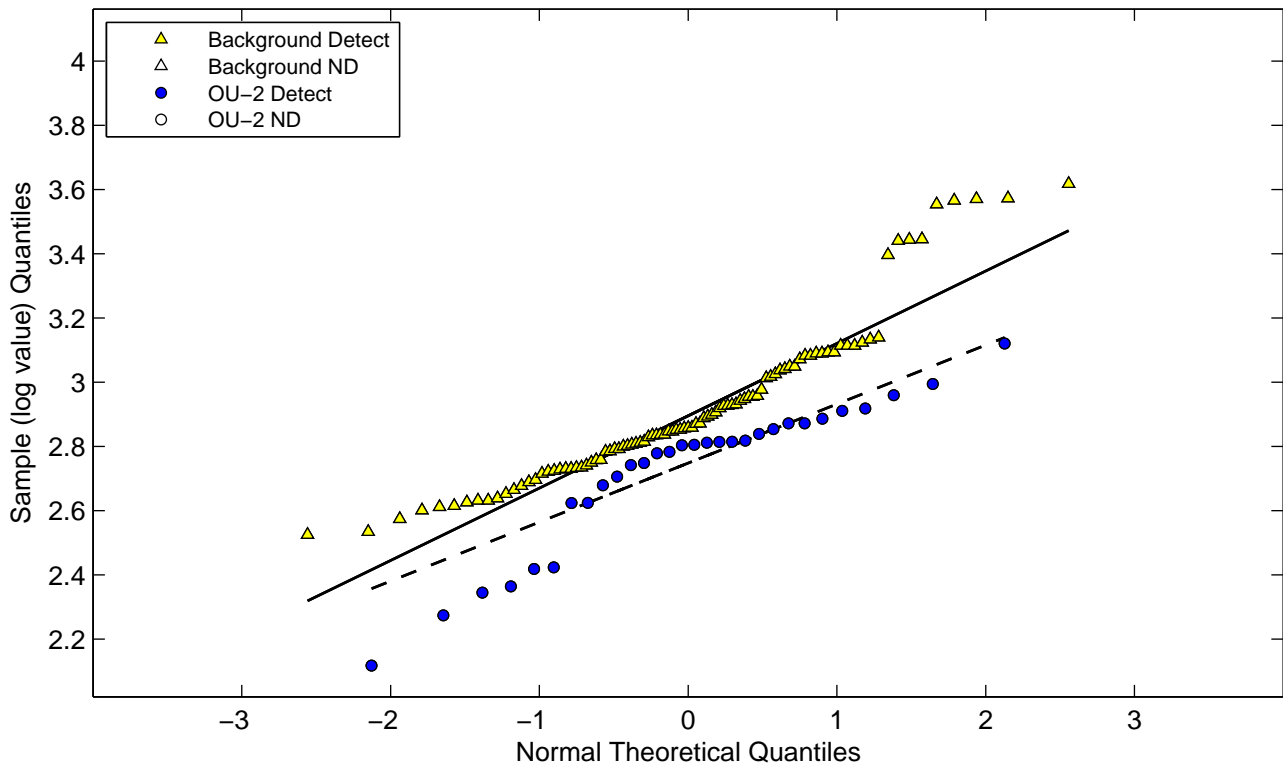
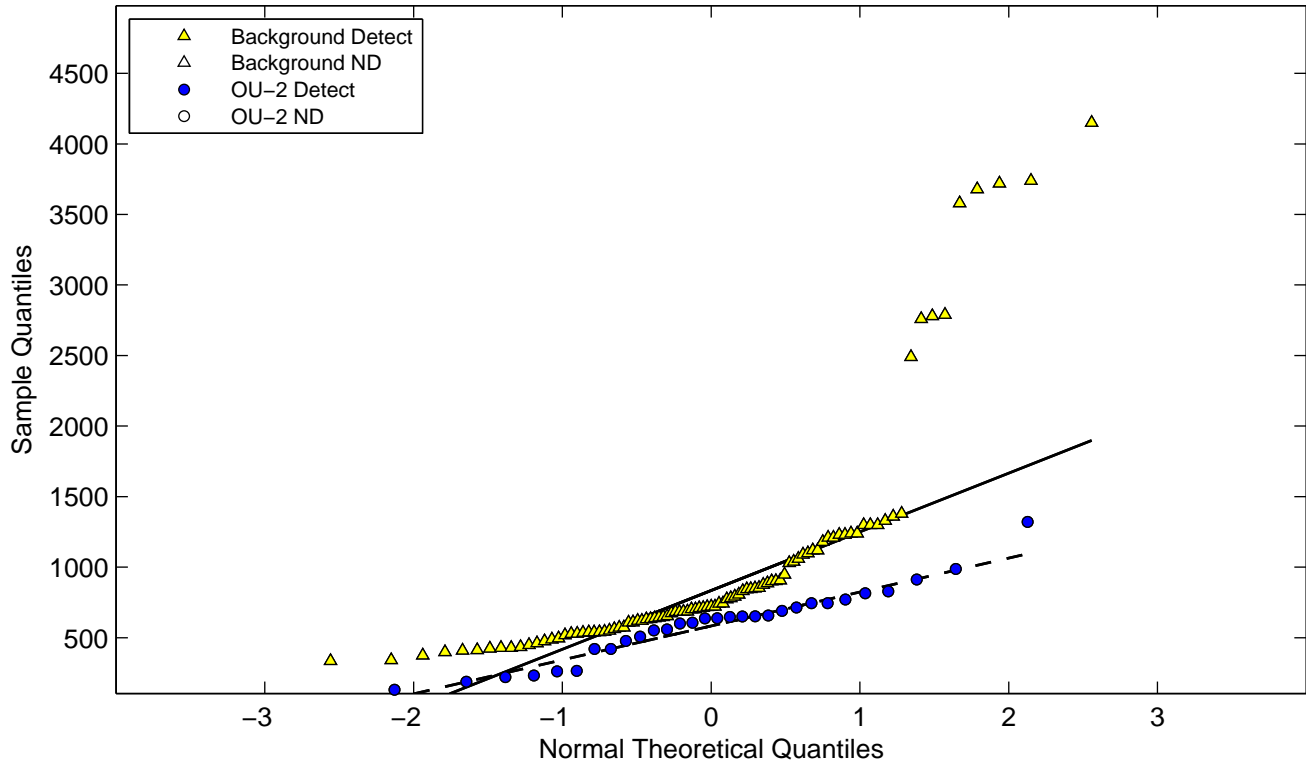


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Silver

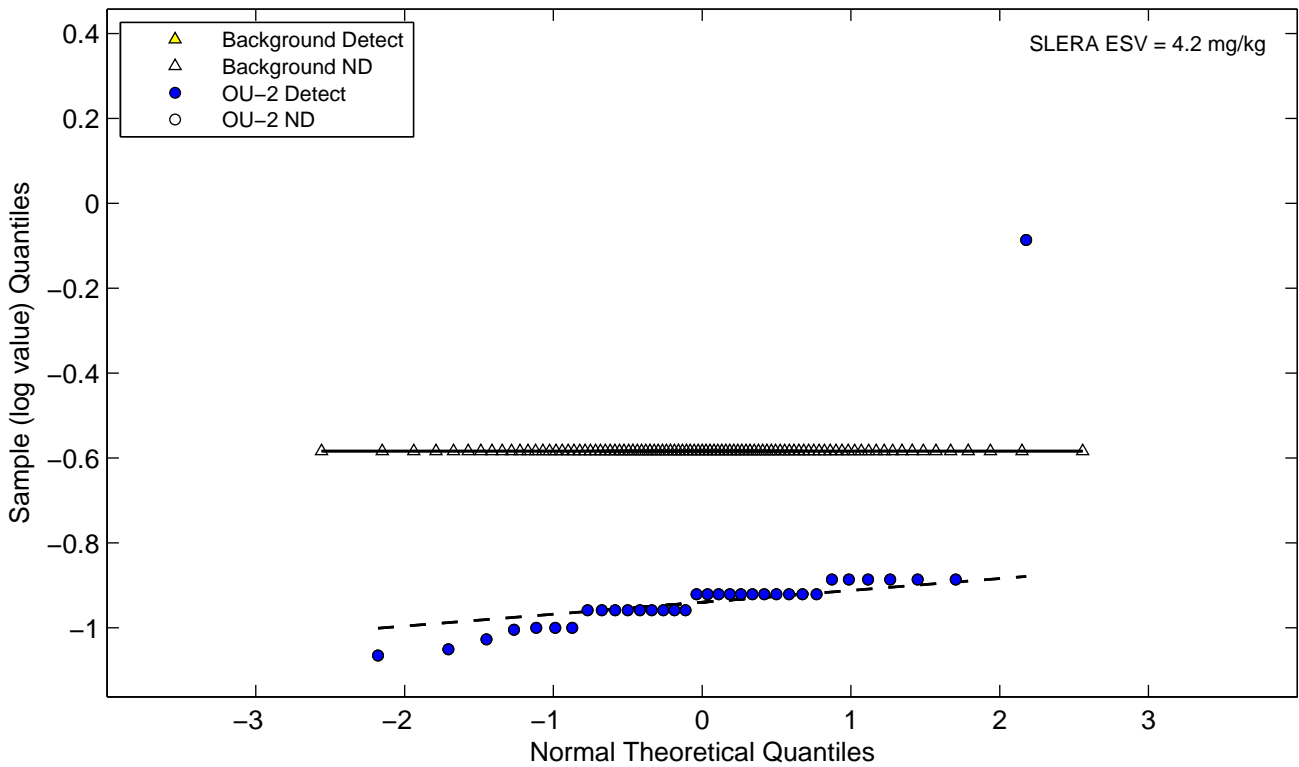
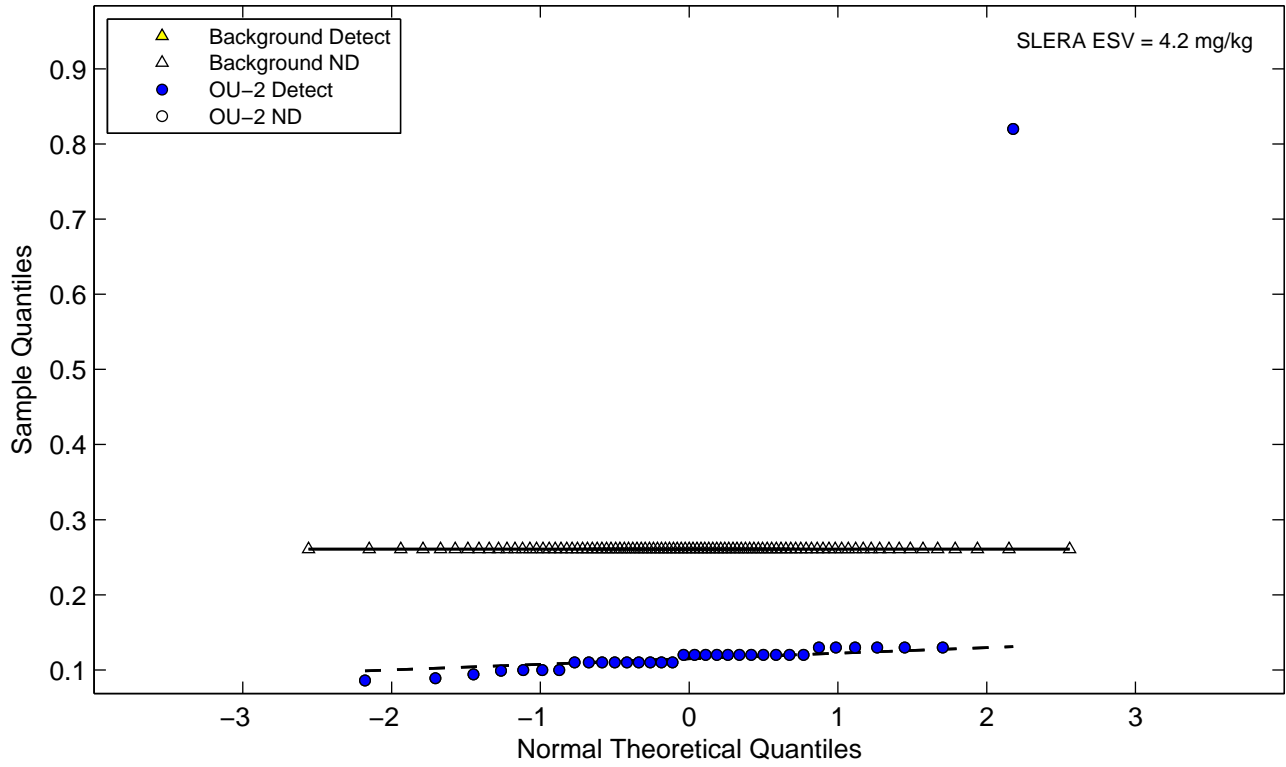


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Sodium

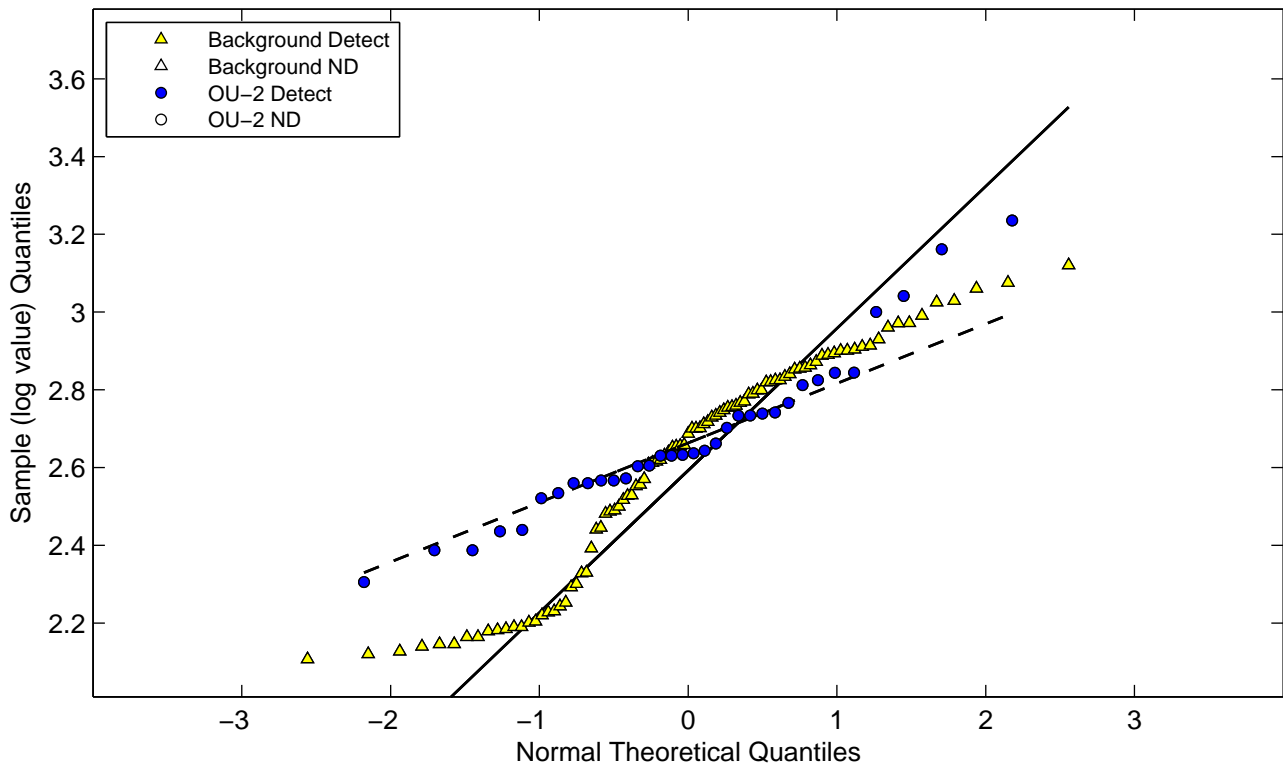
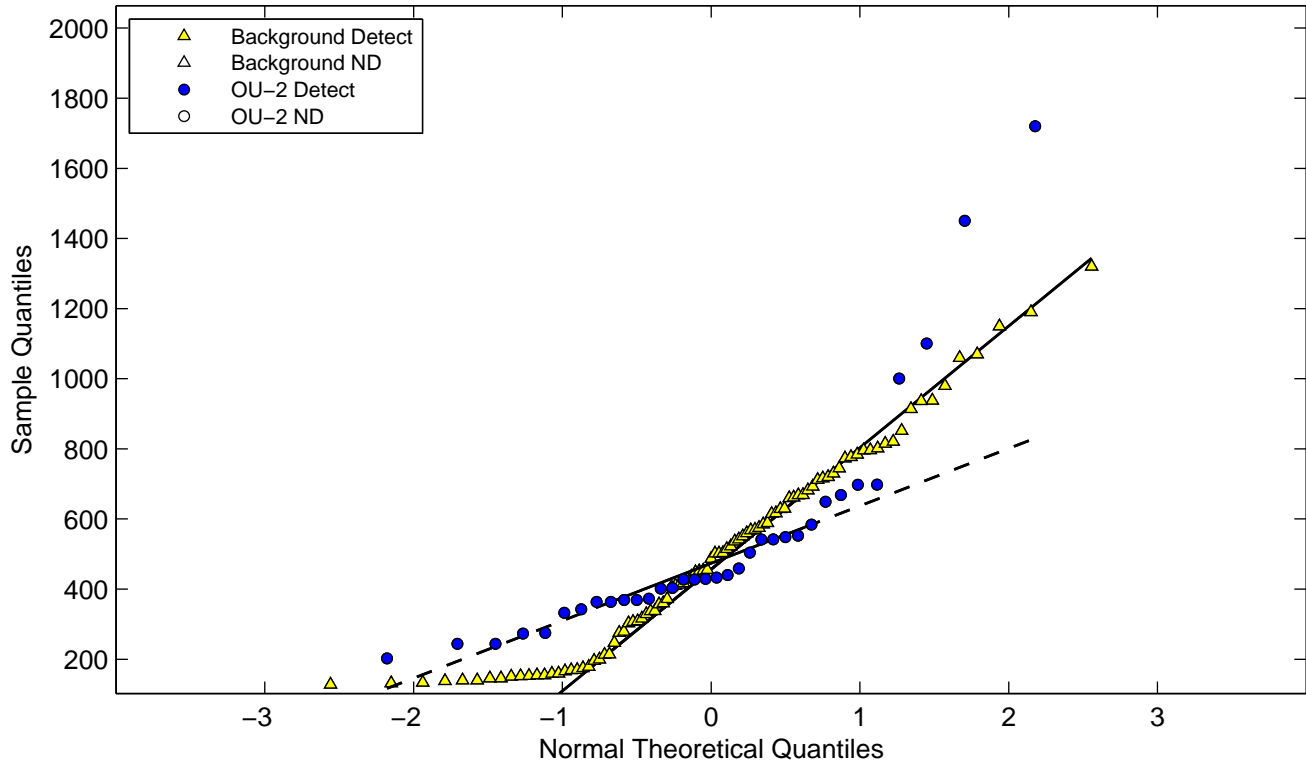


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Strontium

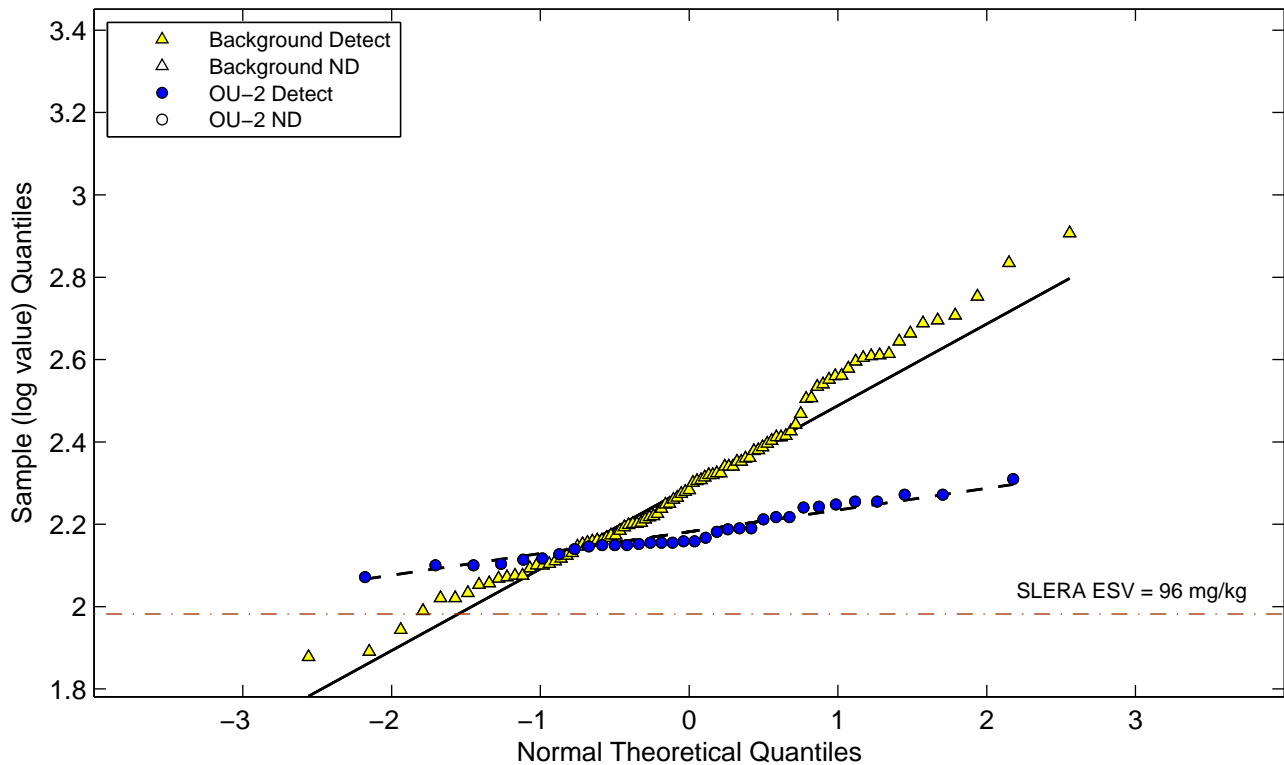
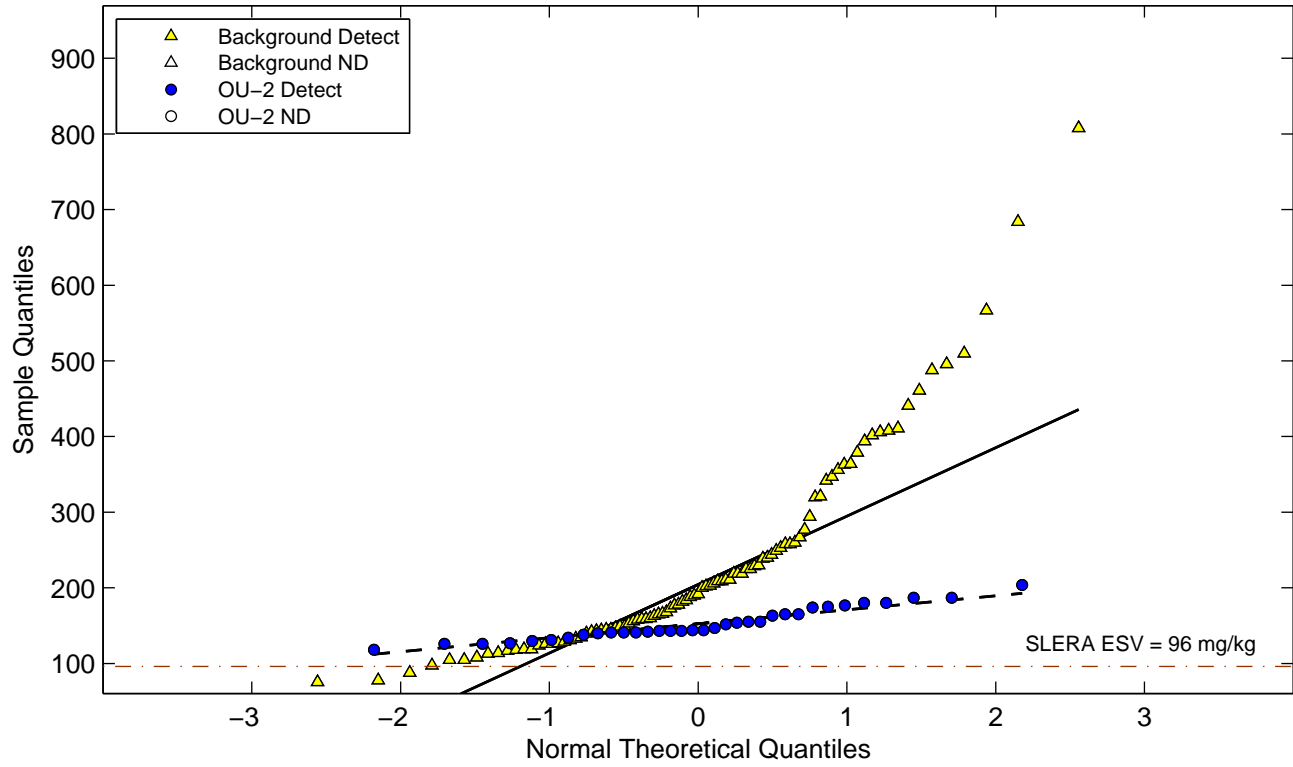


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Thallium

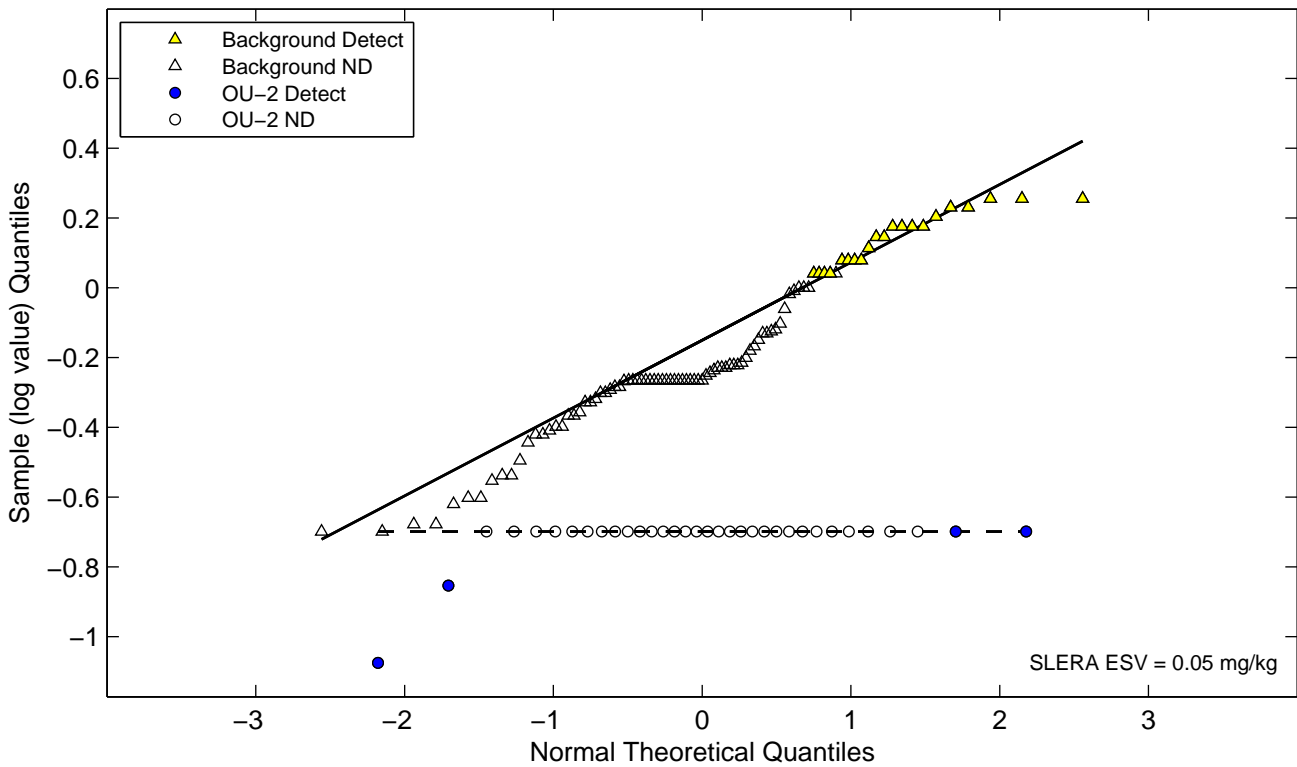
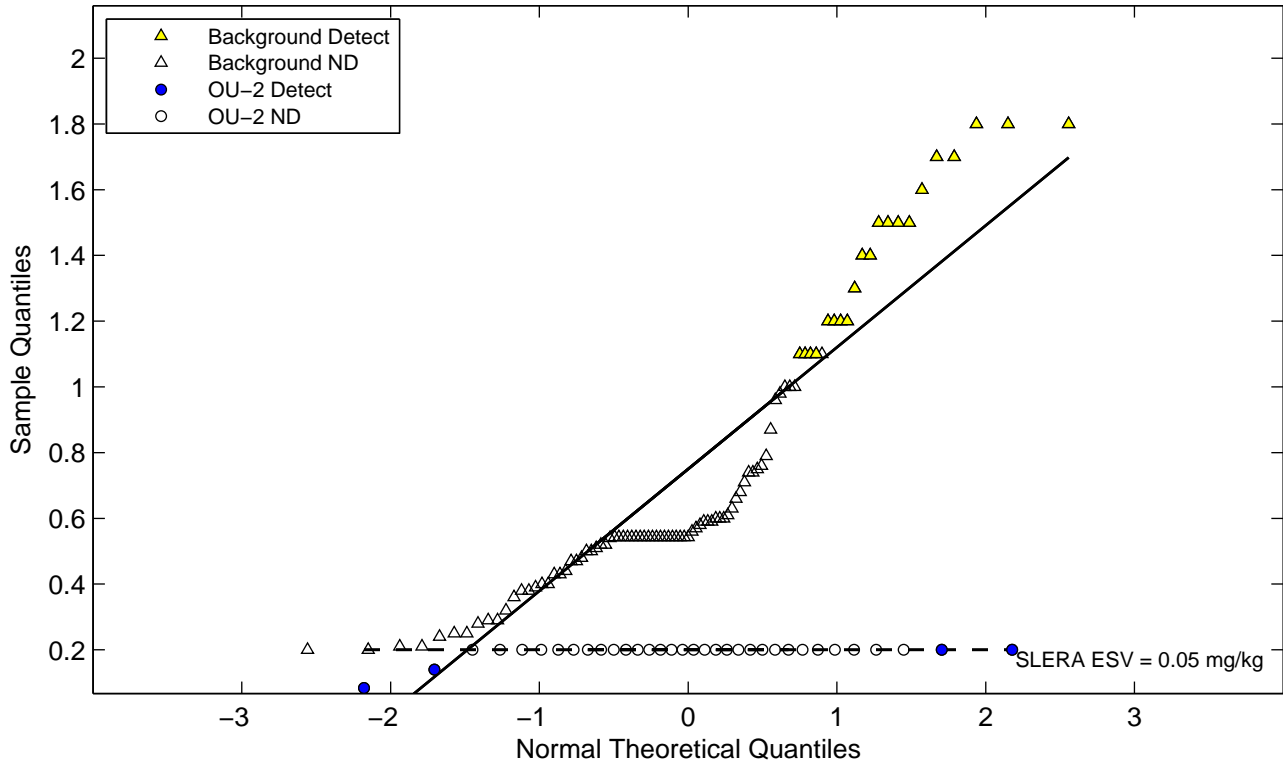


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Tin

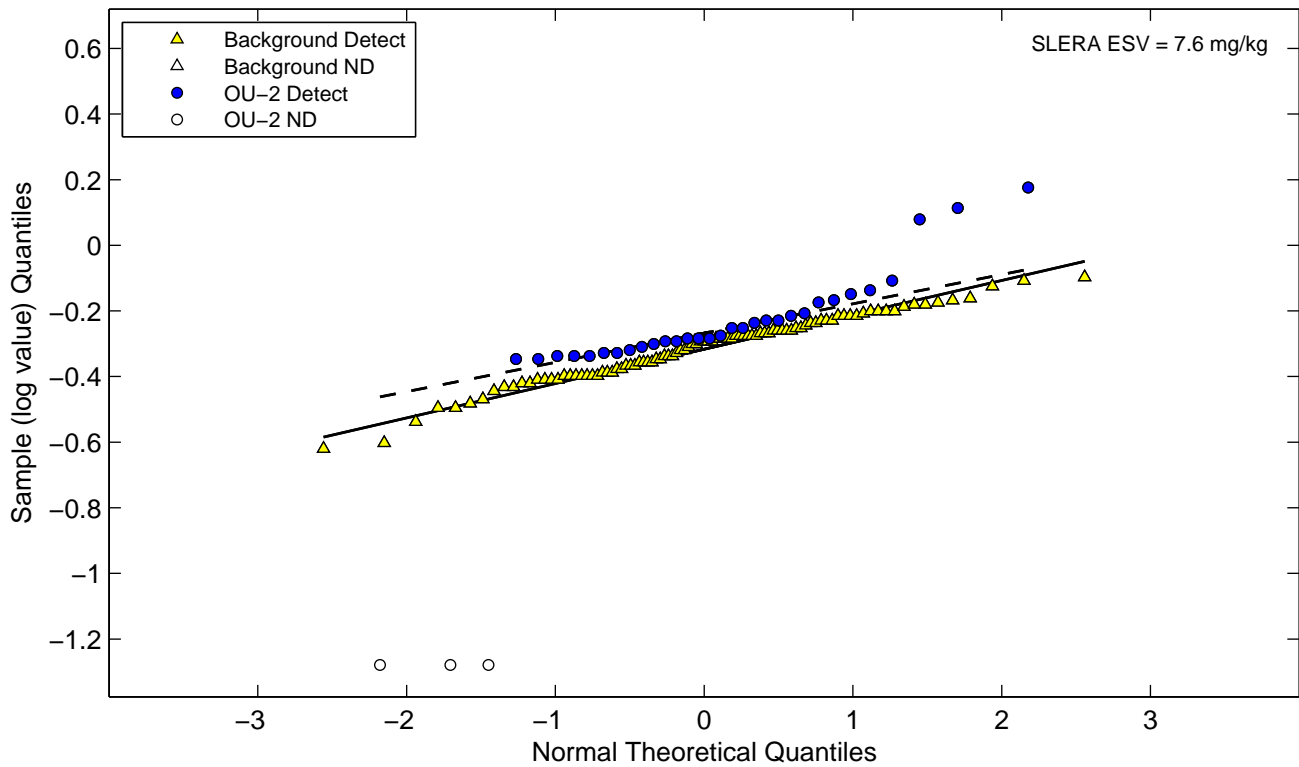
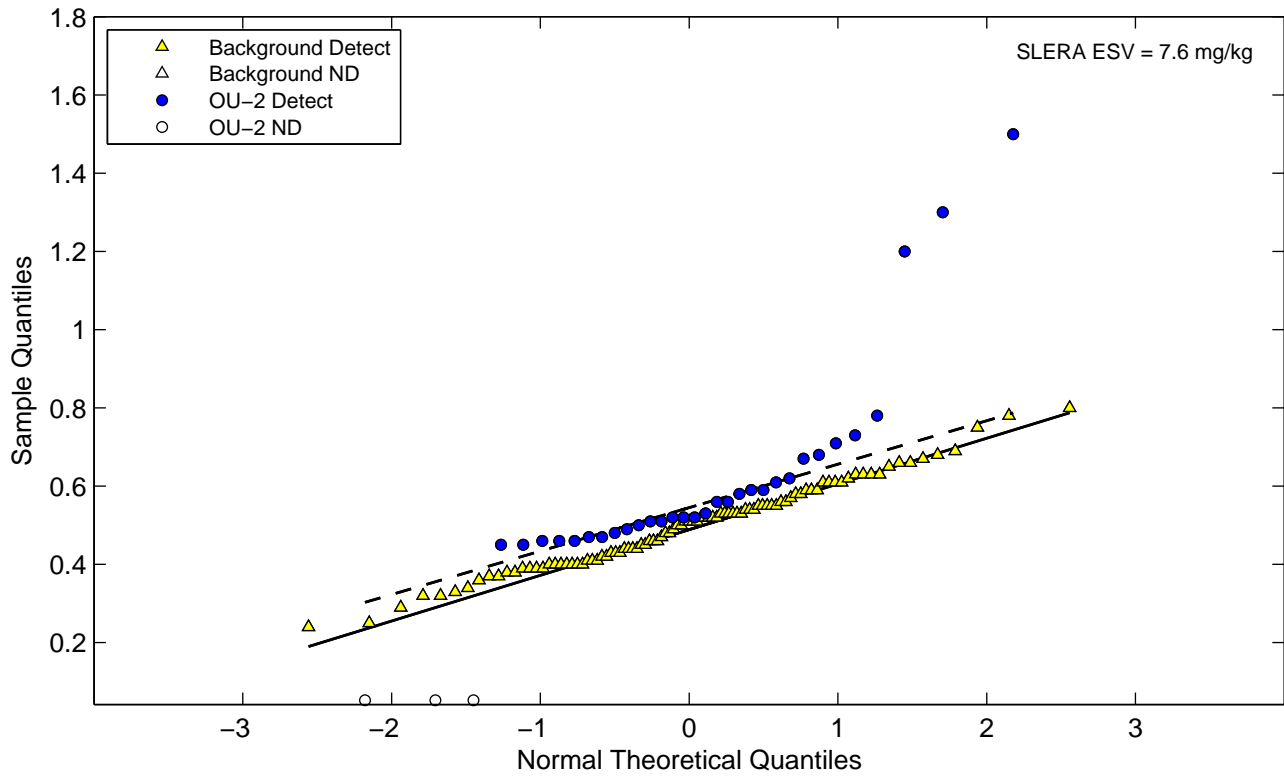


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Titanium

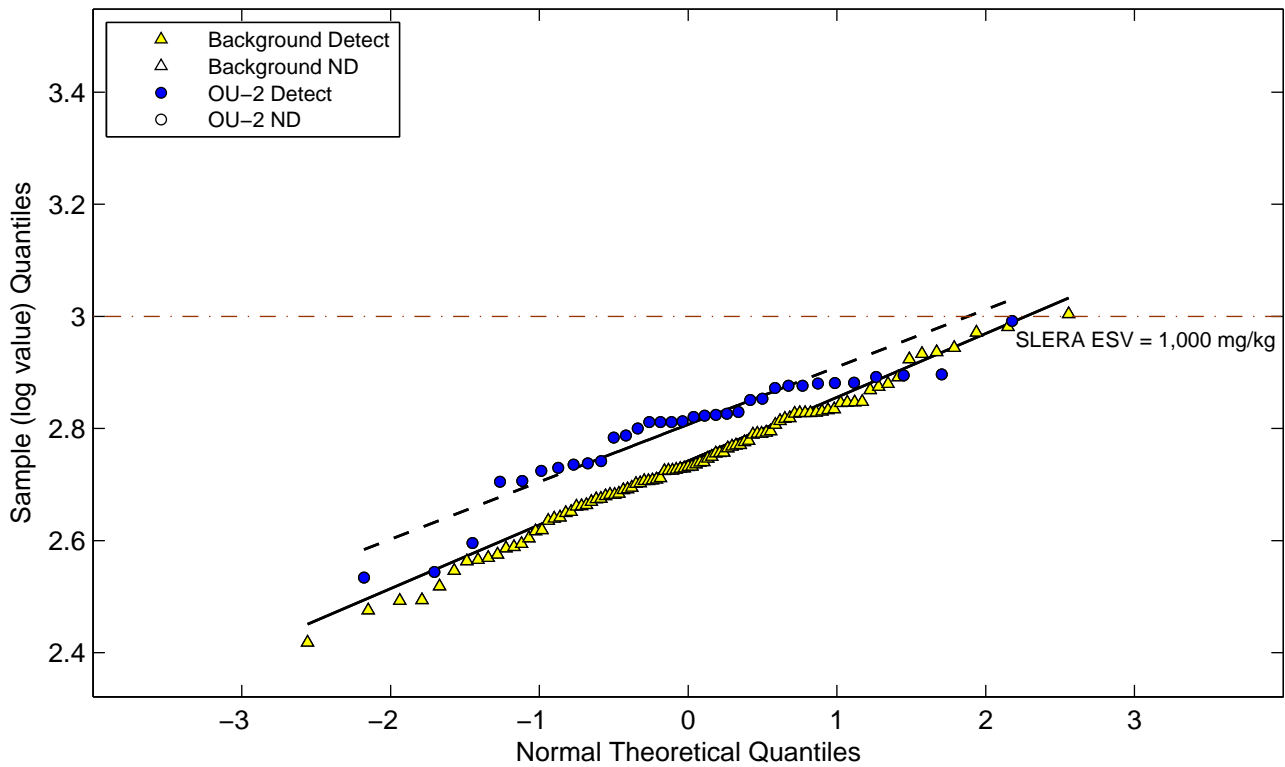
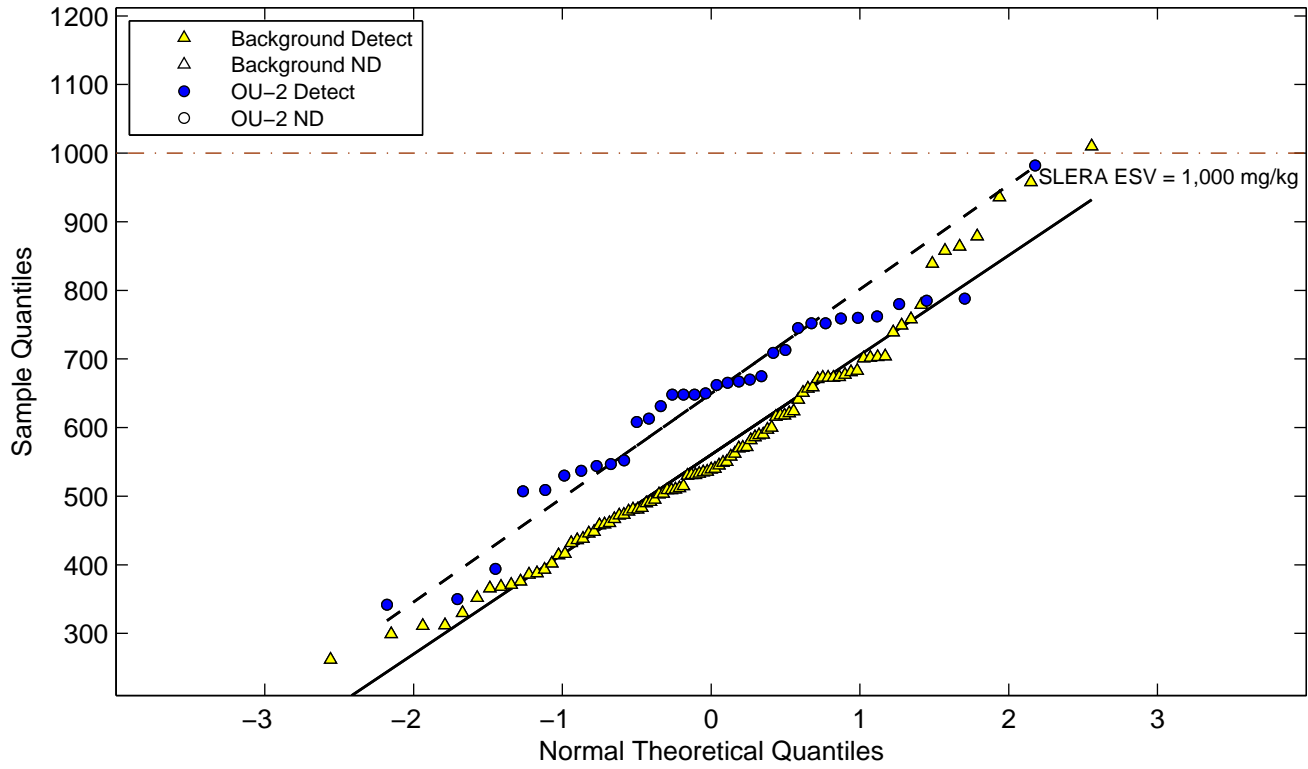
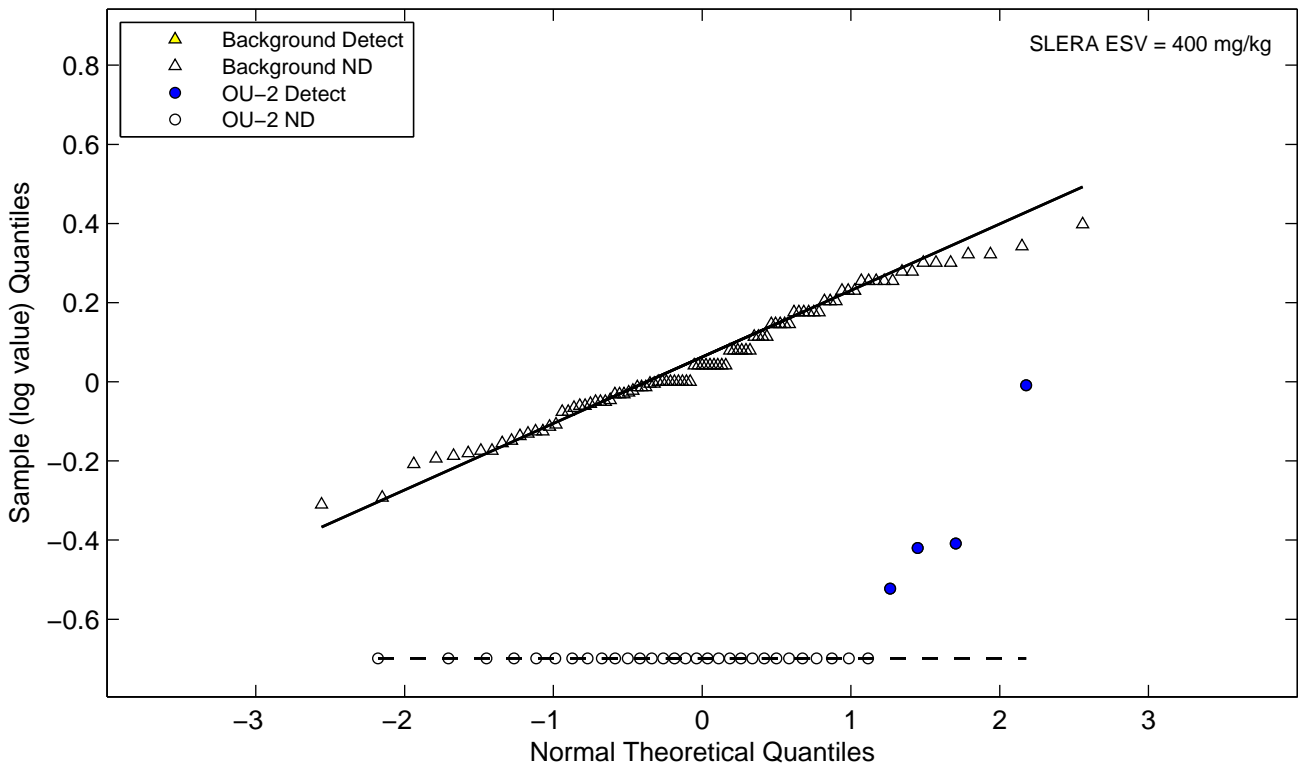
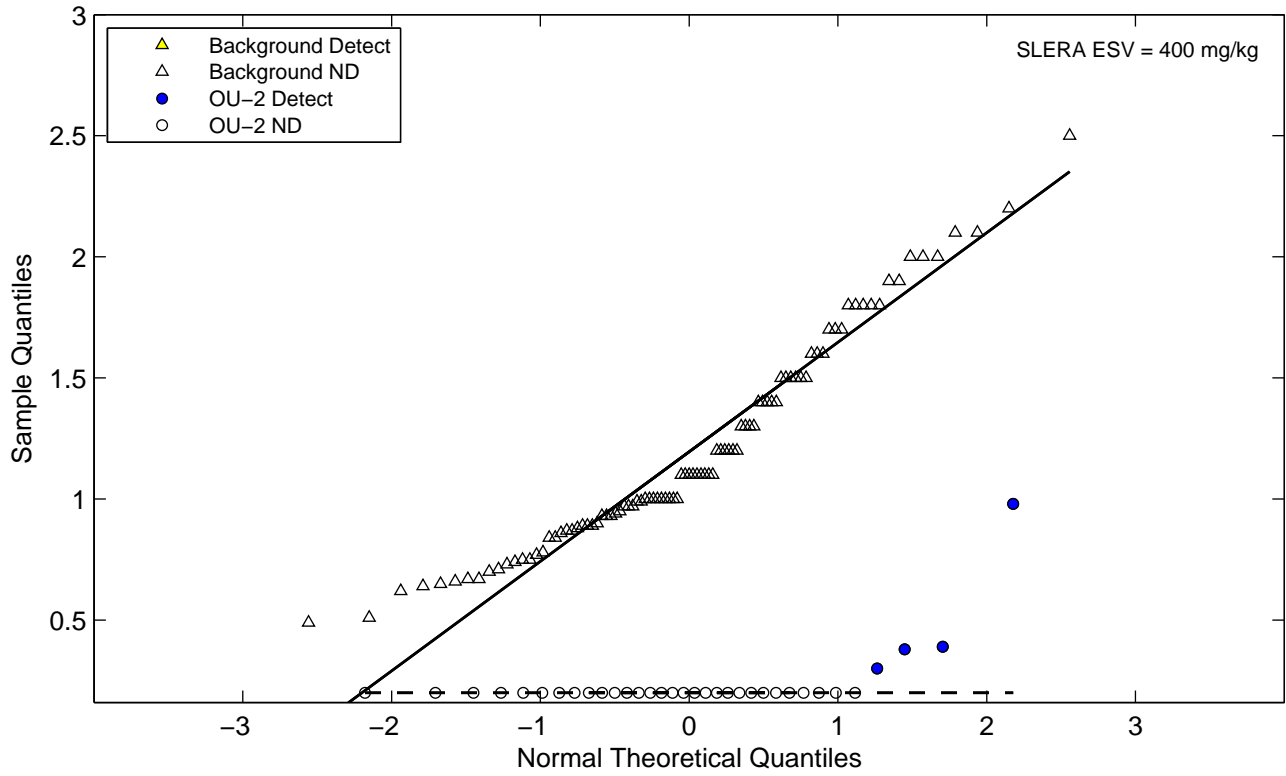


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals Tungsten



**Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Uranium (total)**

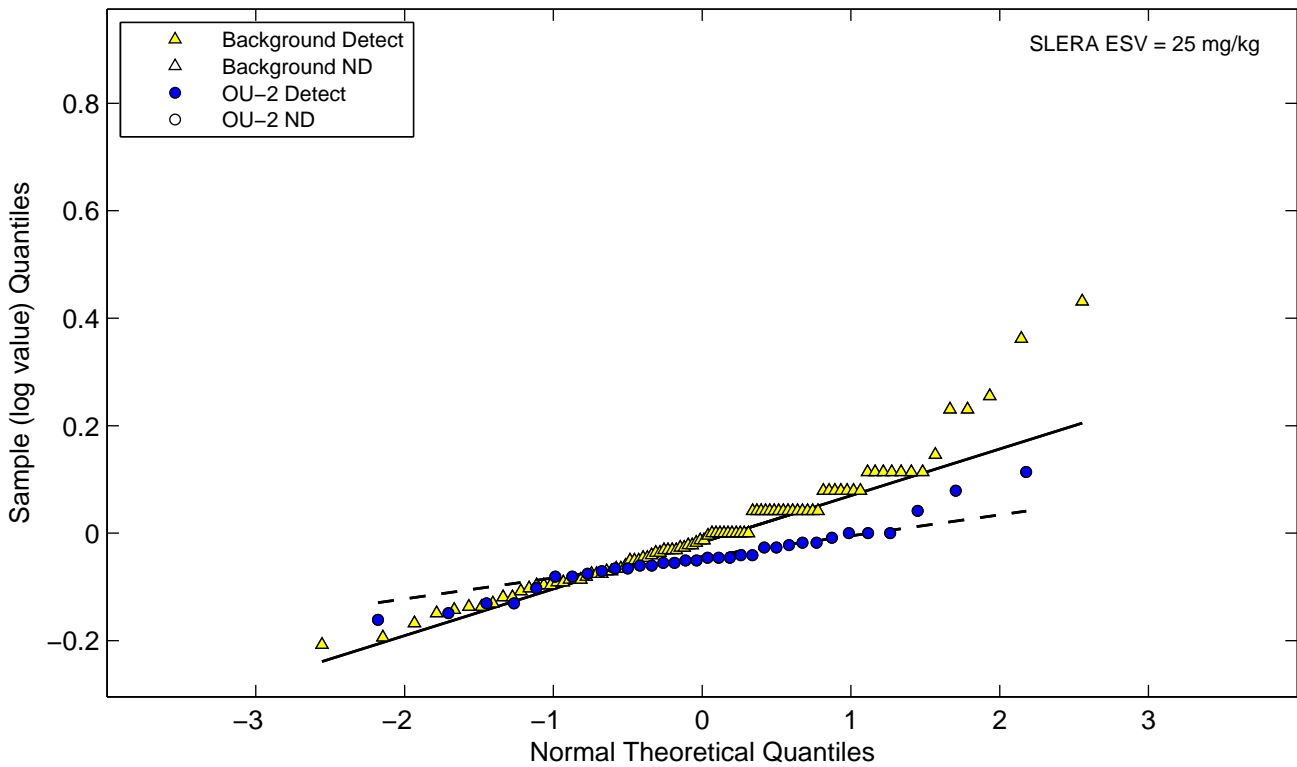
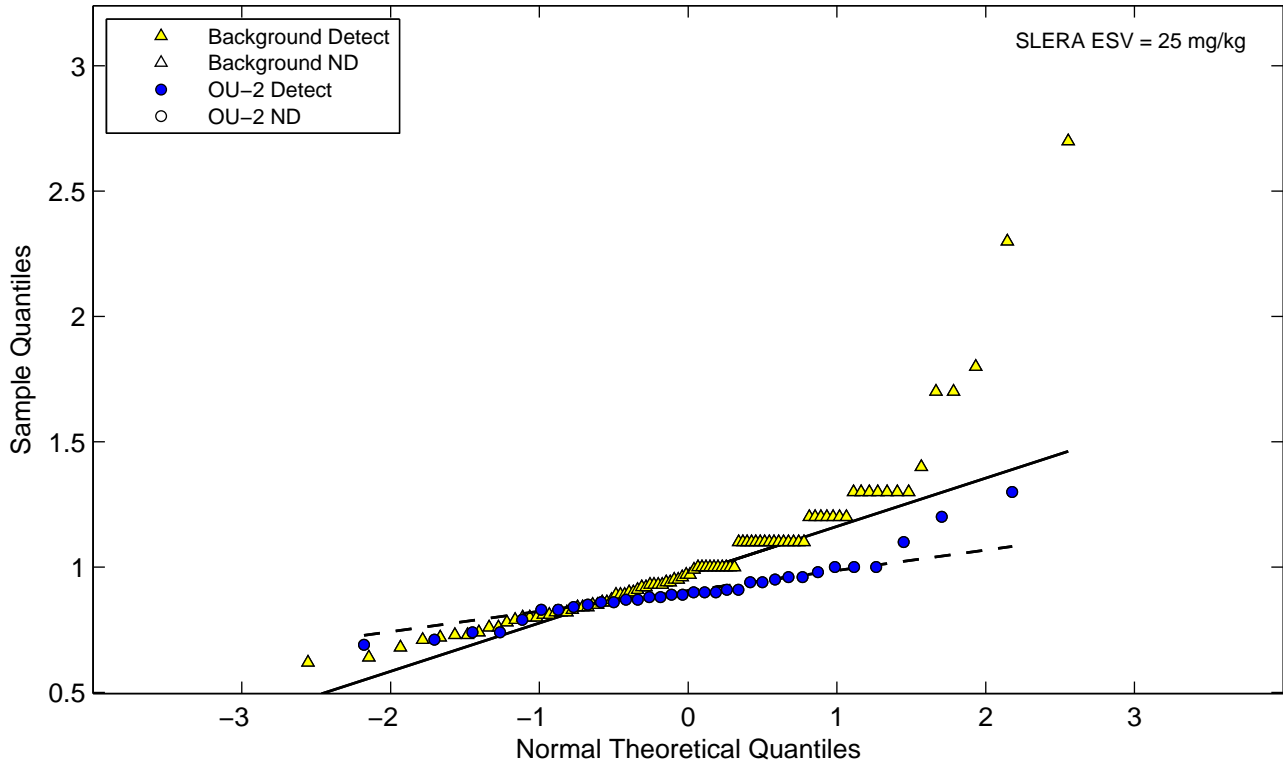


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Vanadium

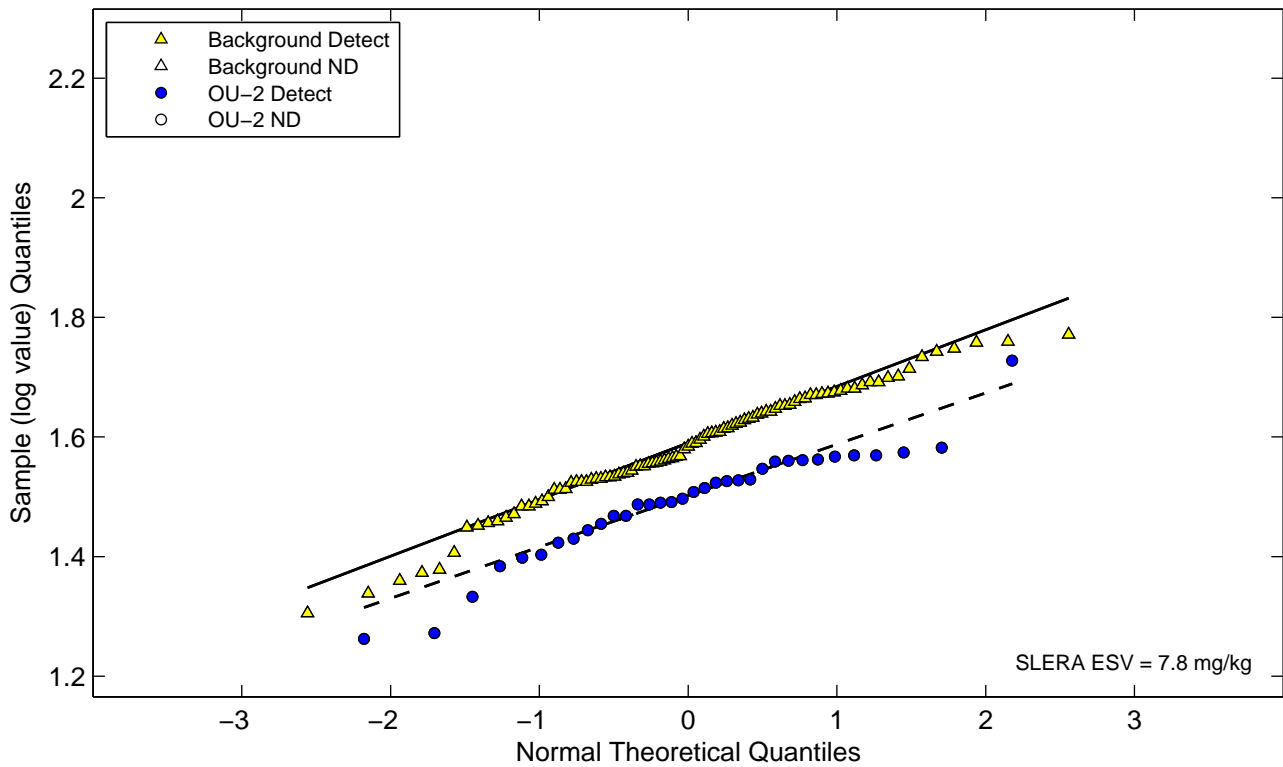
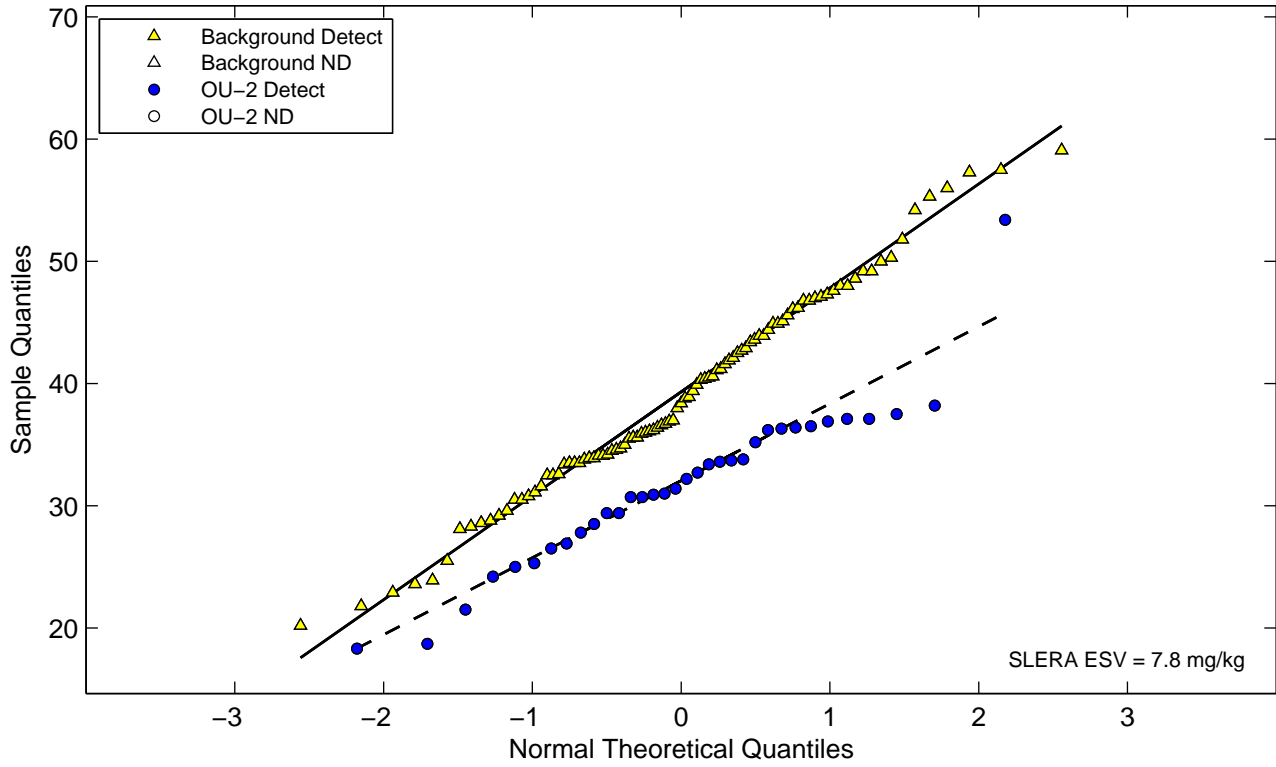


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Zinc

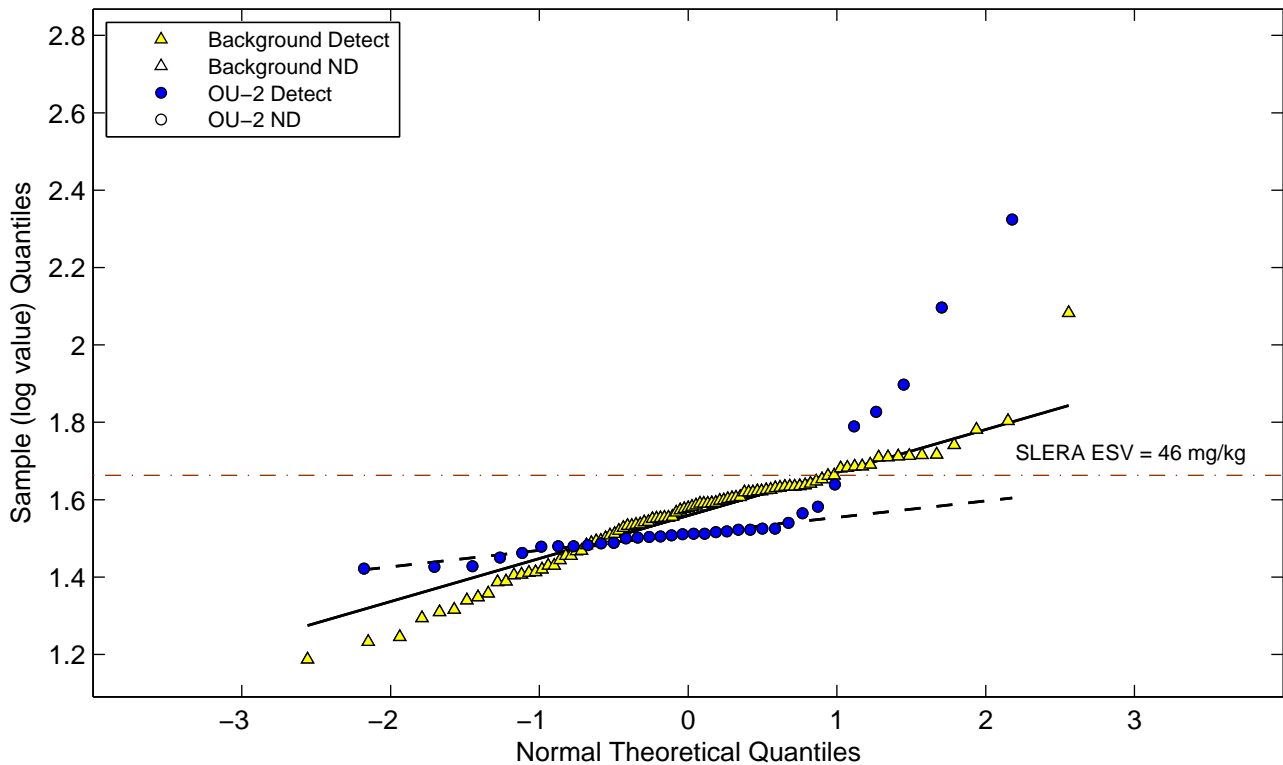
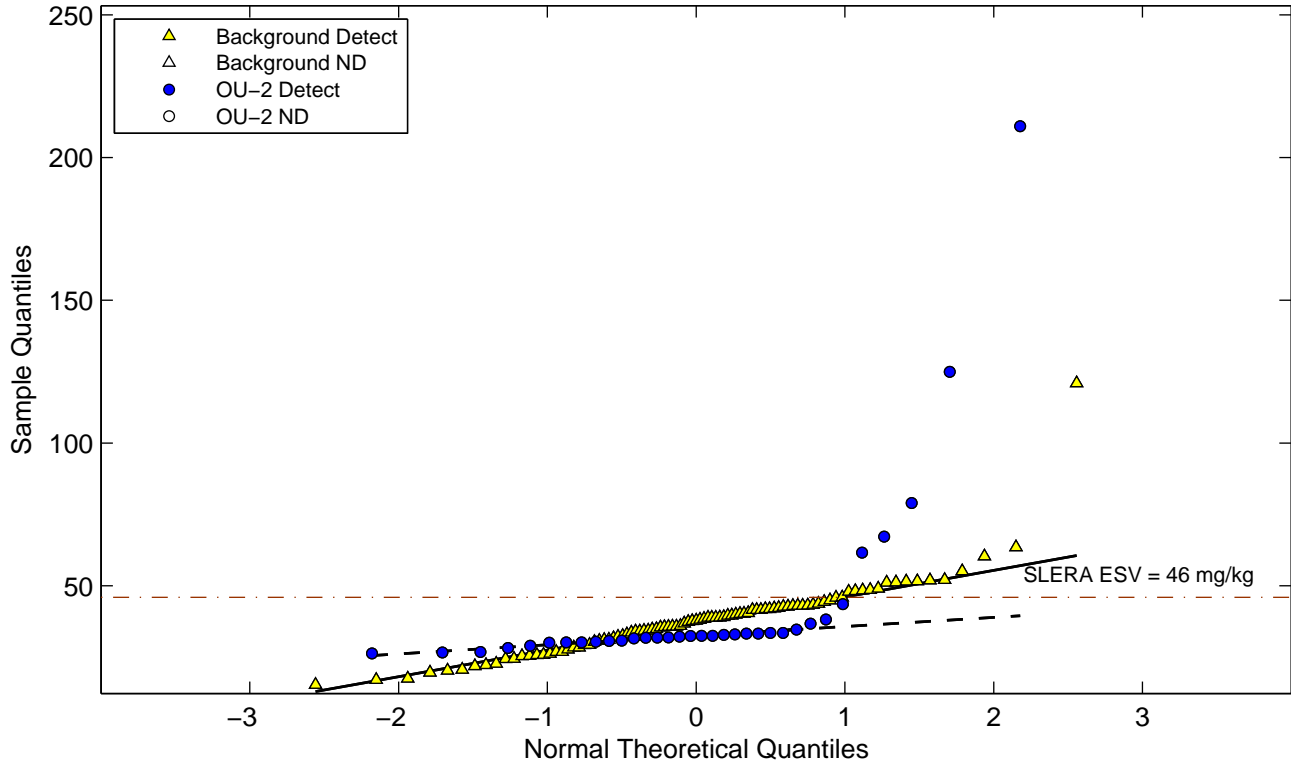


Figure D-2c. Normal and Lognormal Q-Q Plots for Metals
Zirconium

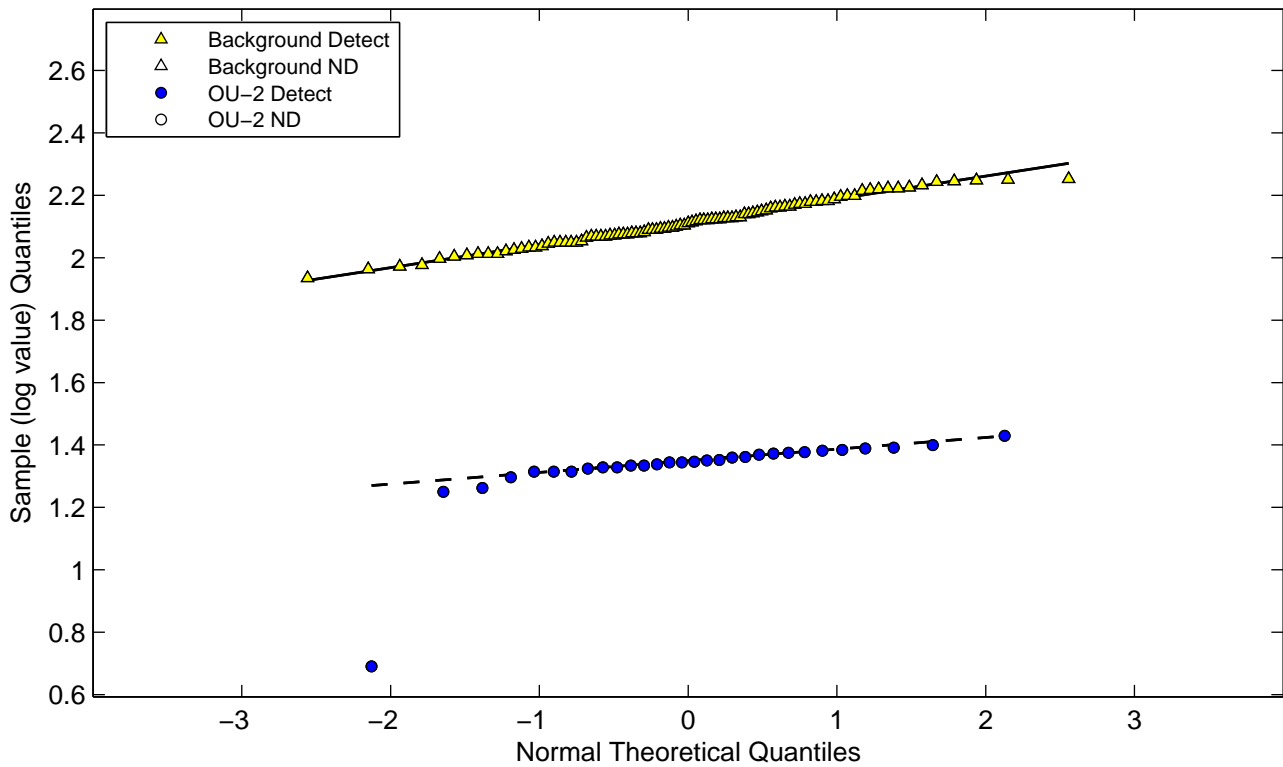
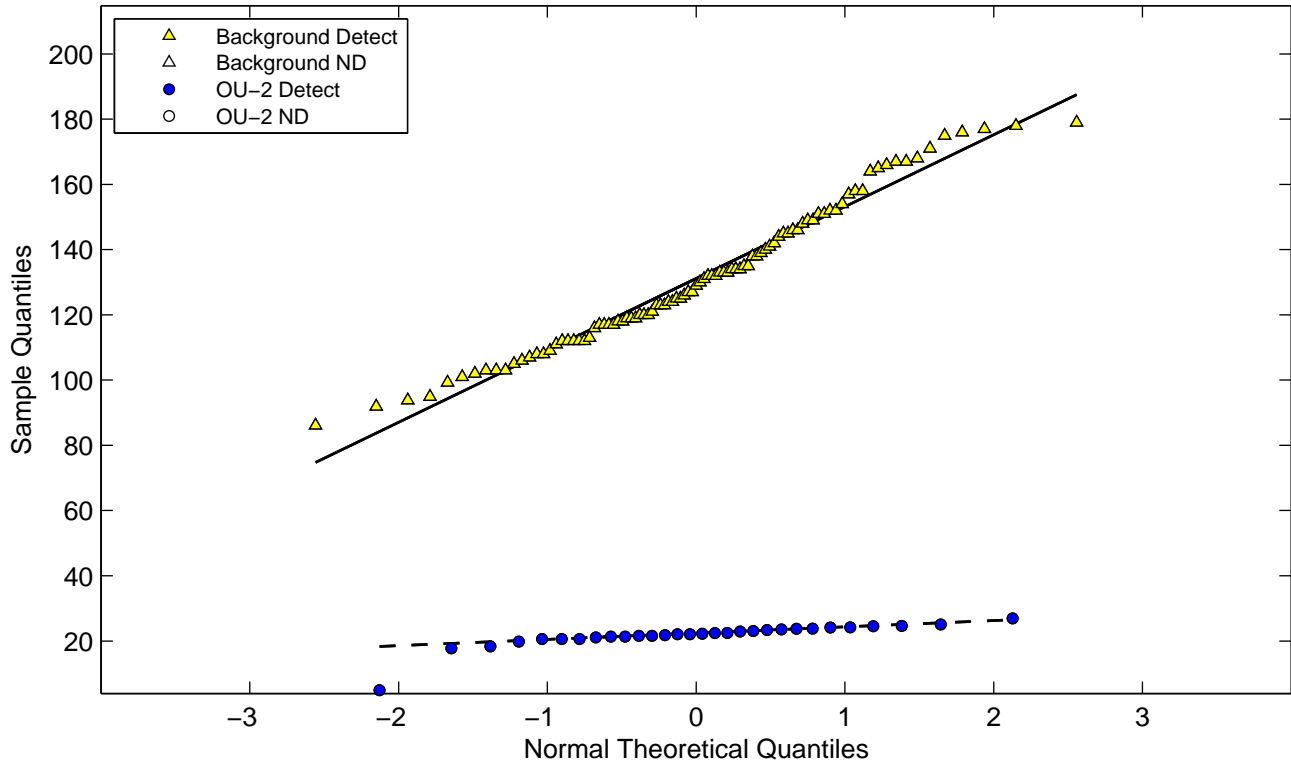


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Uranium-238

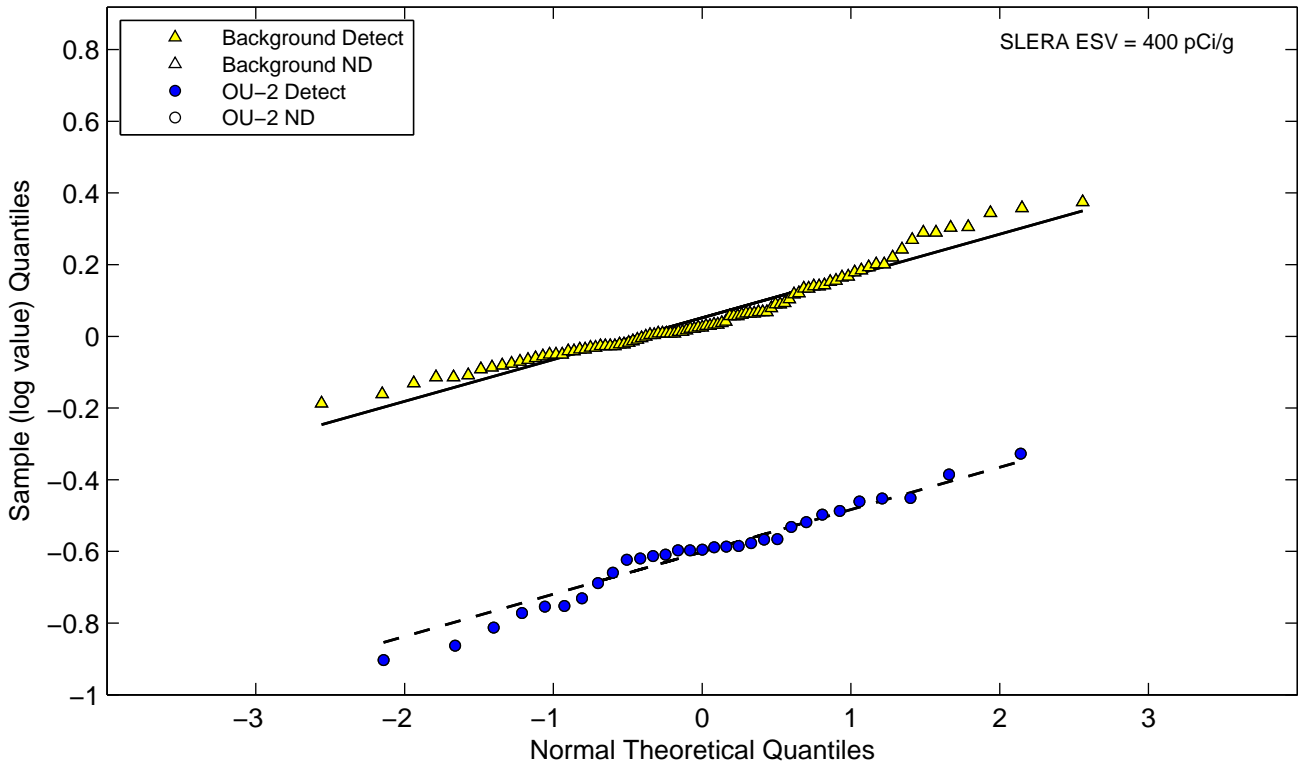
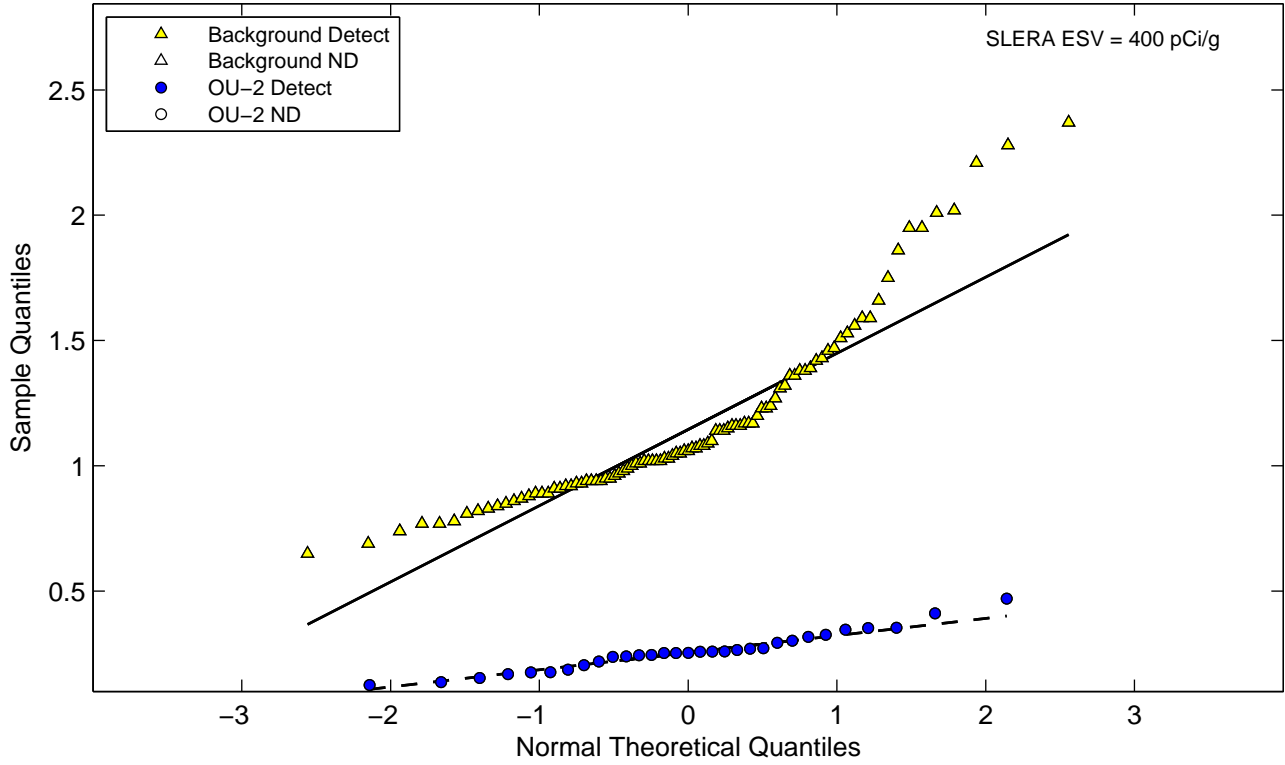


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Uranium-234

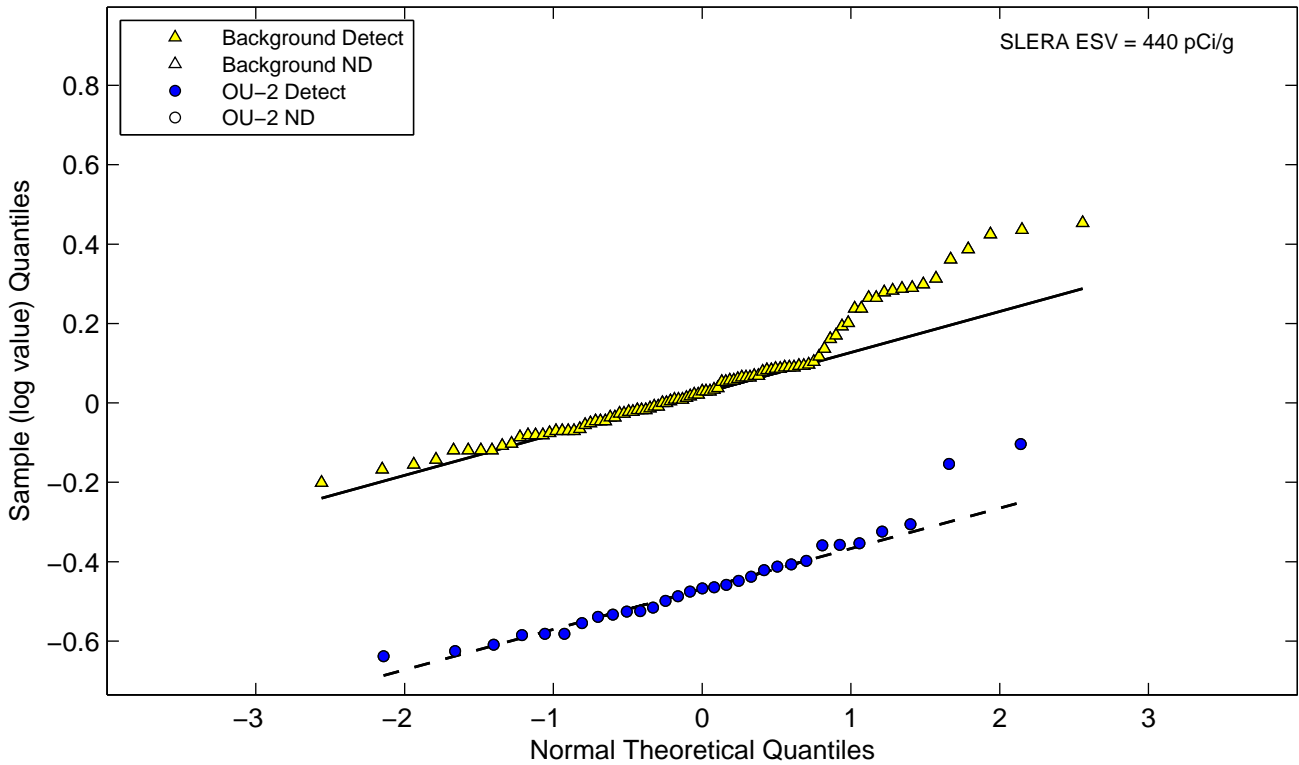
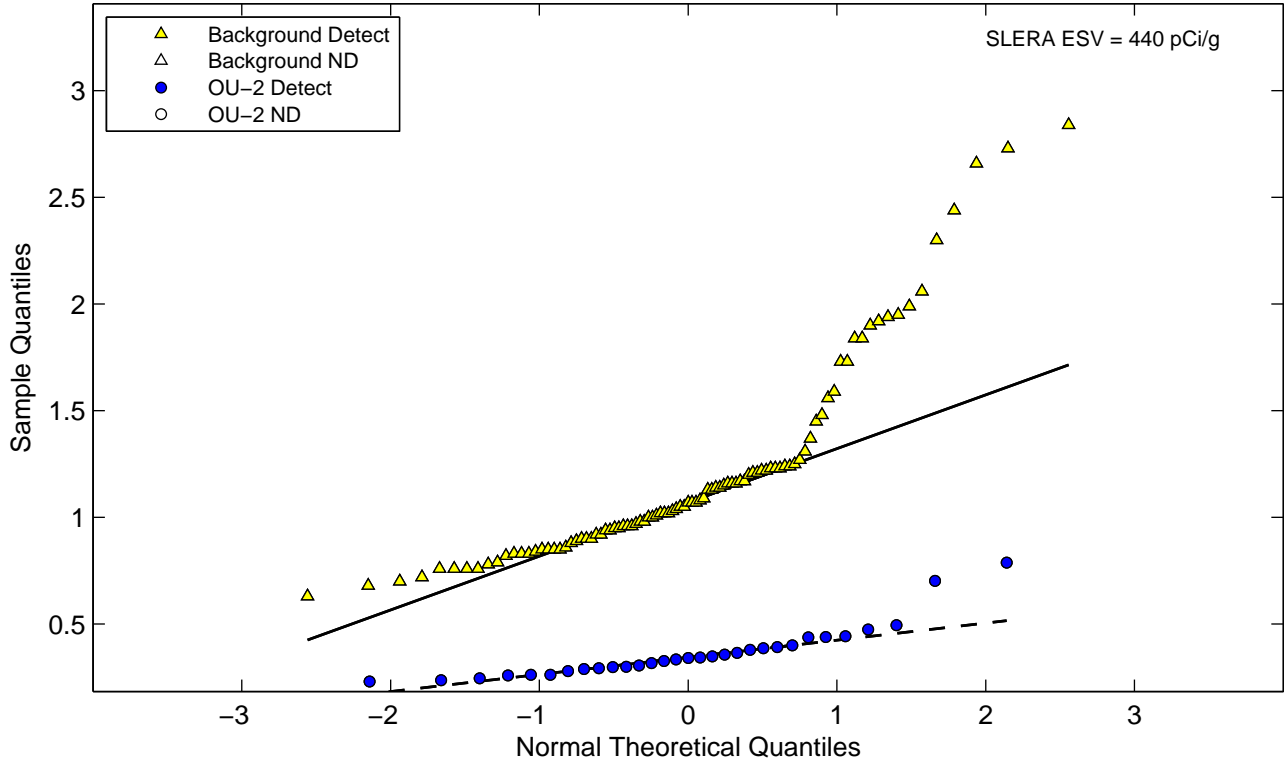


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Thorium-230

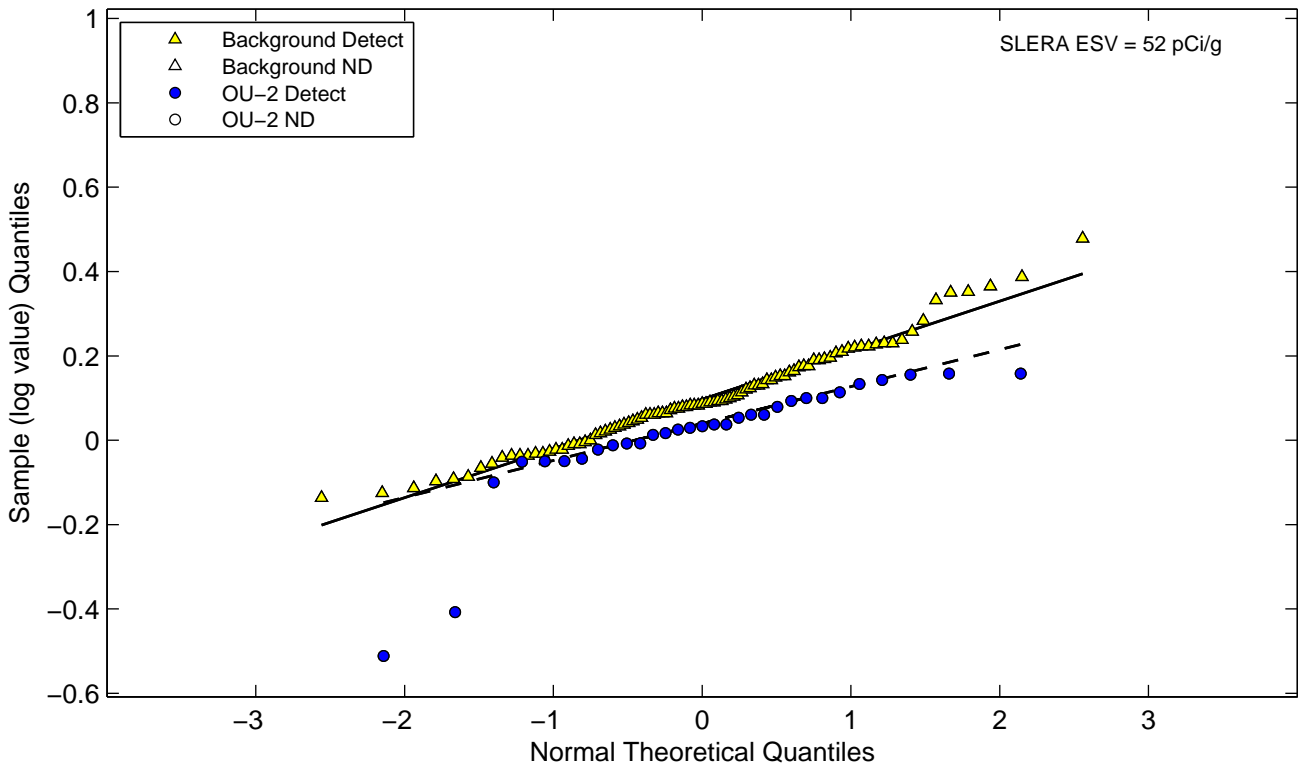
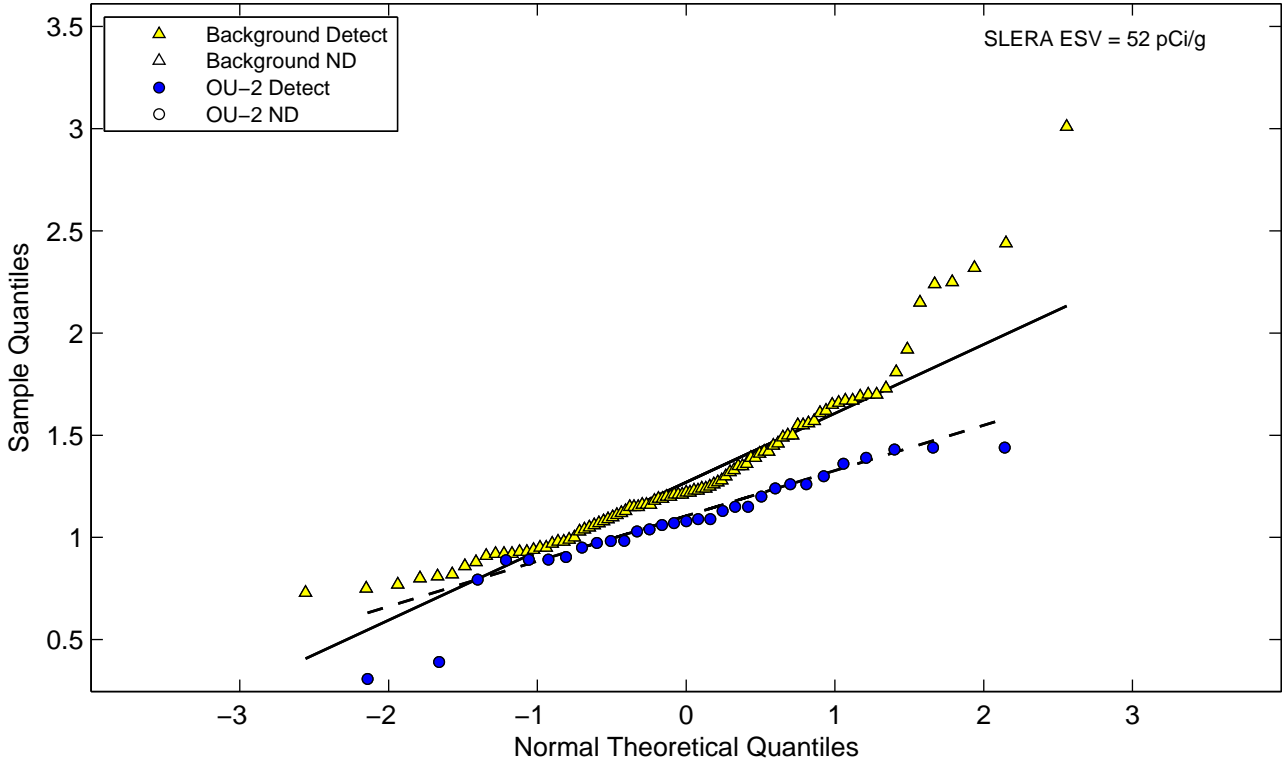


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Radium-226

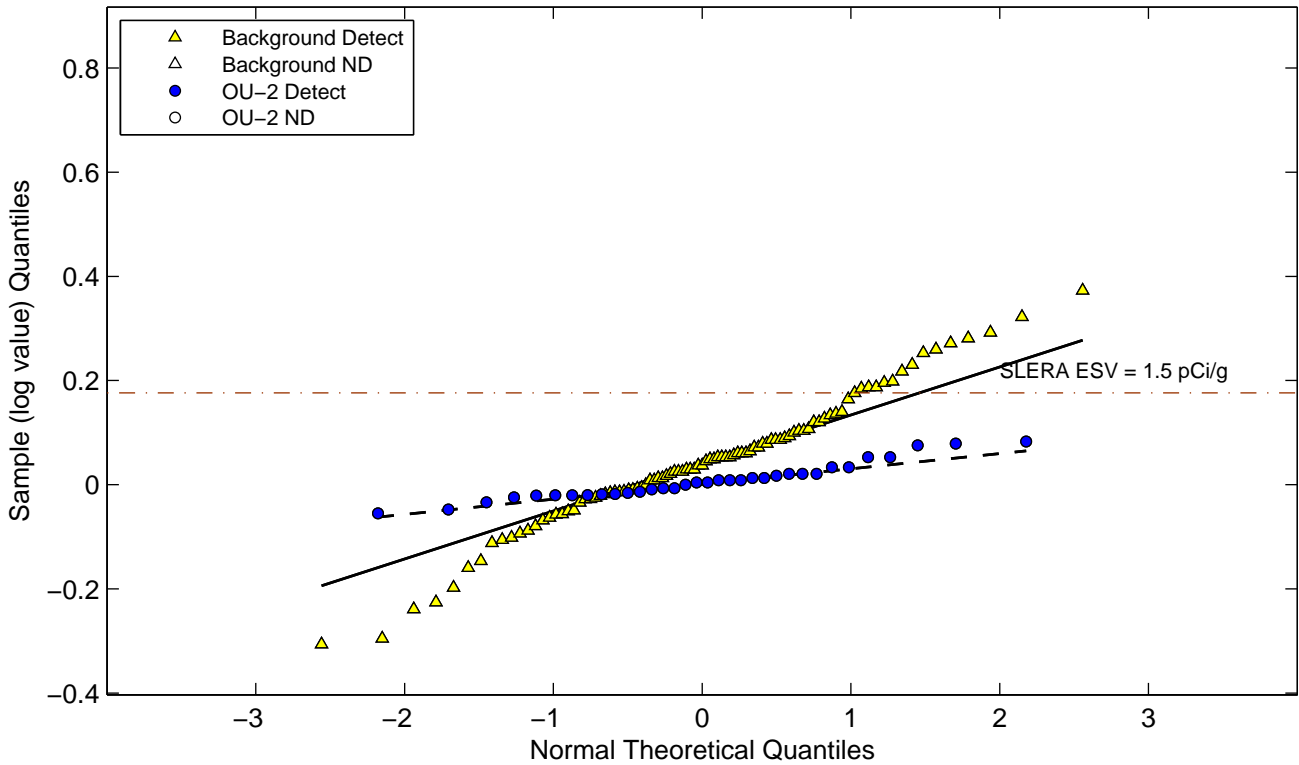
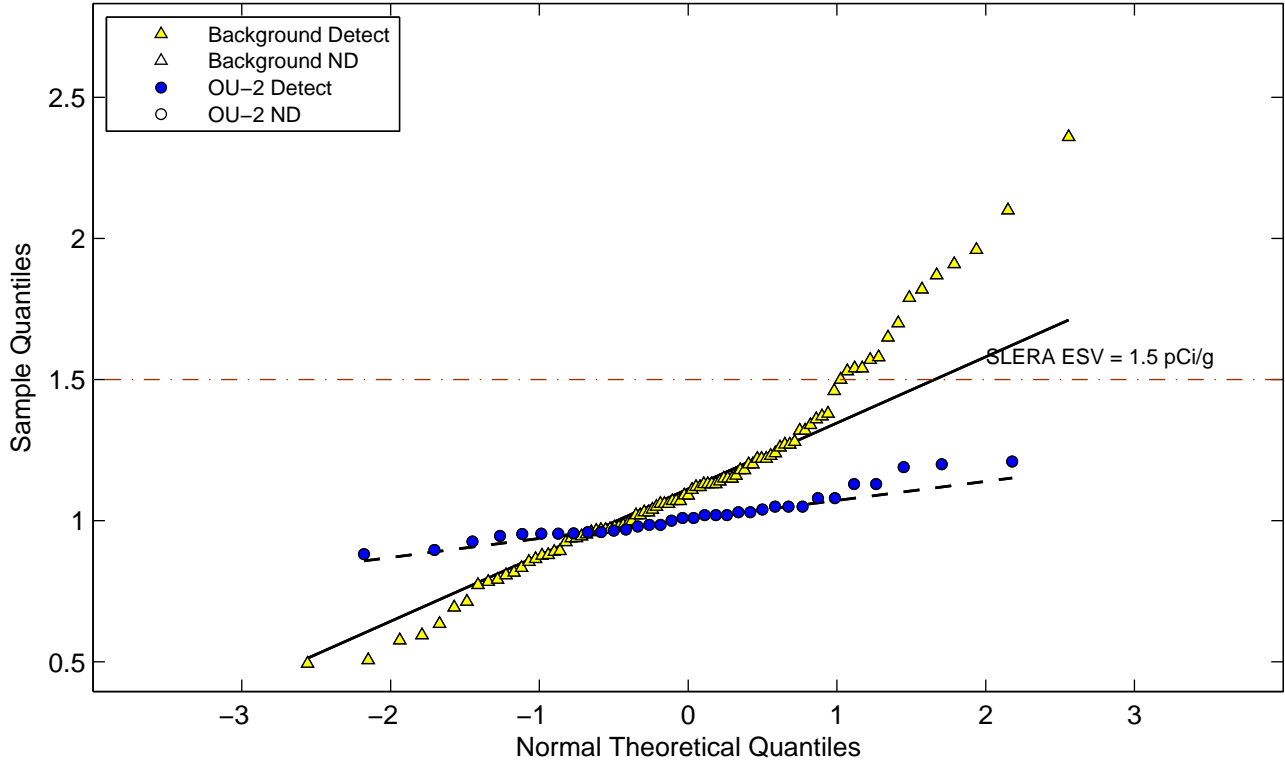


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Thorium-232

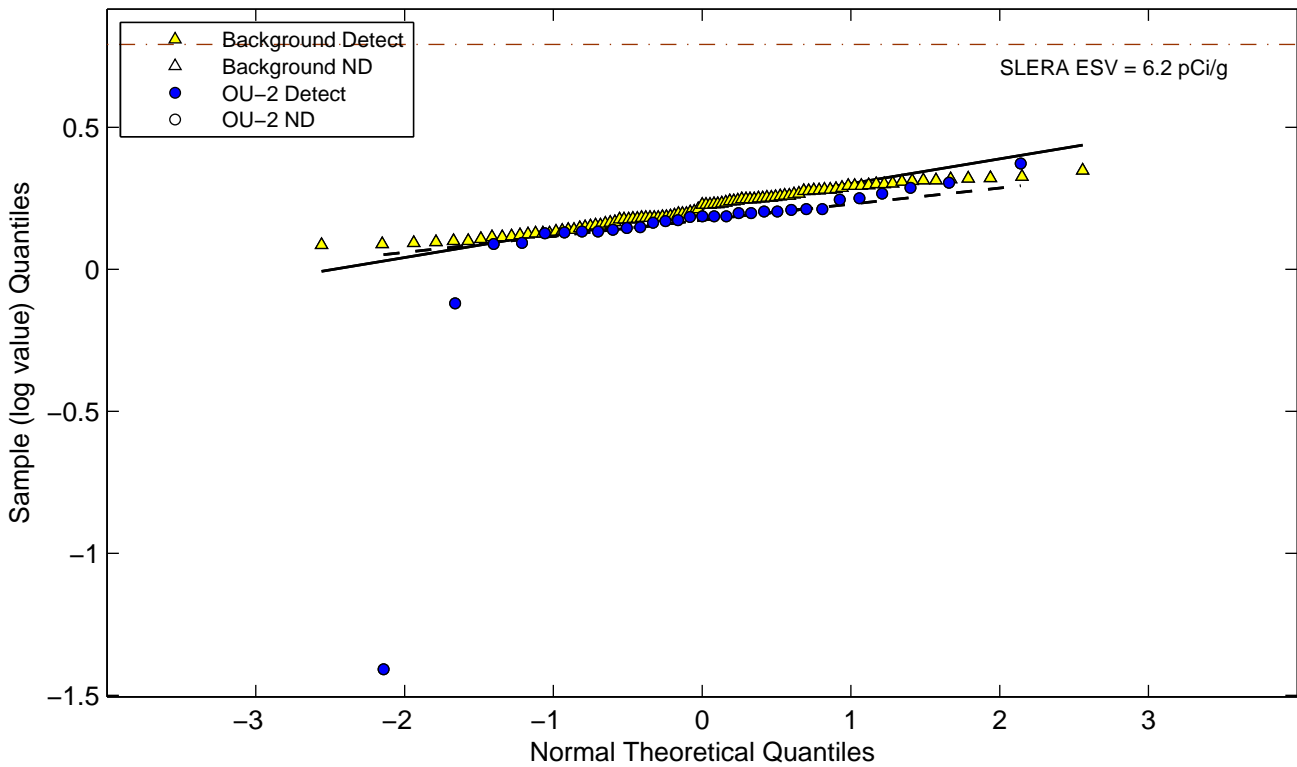
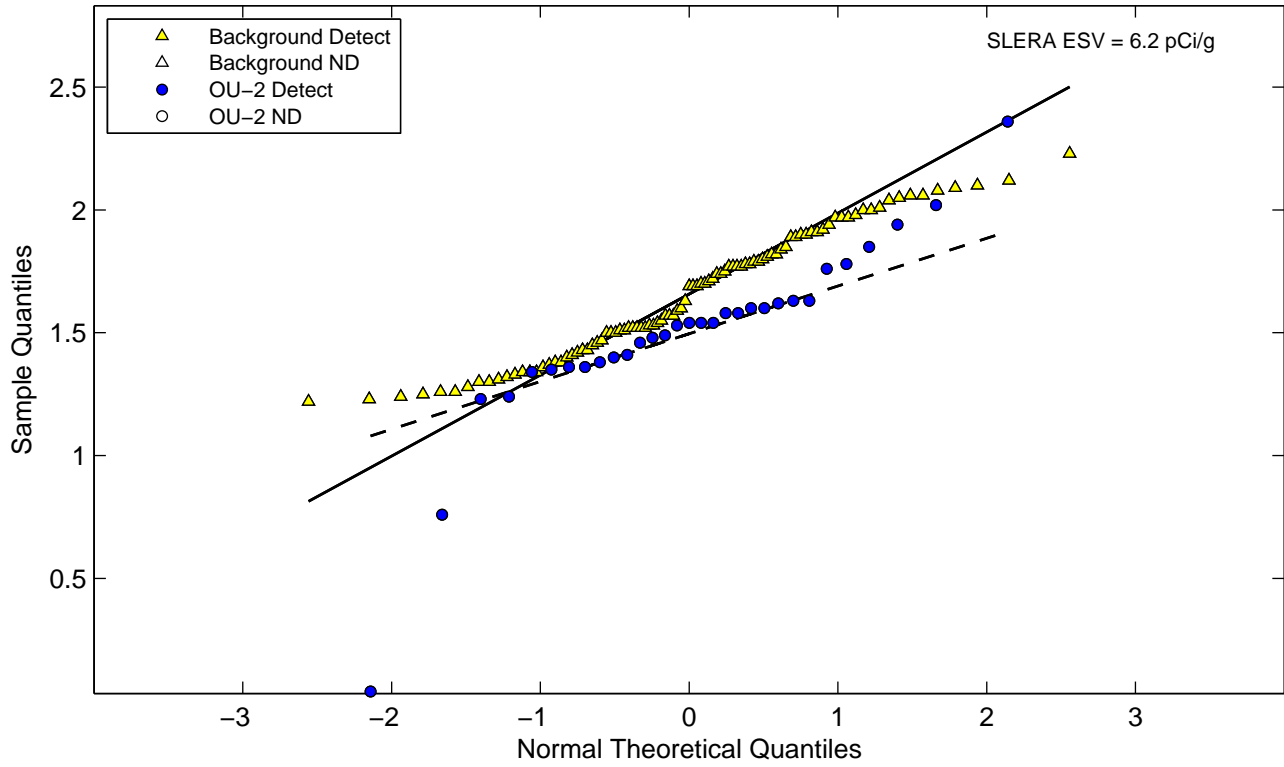


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Radium-228

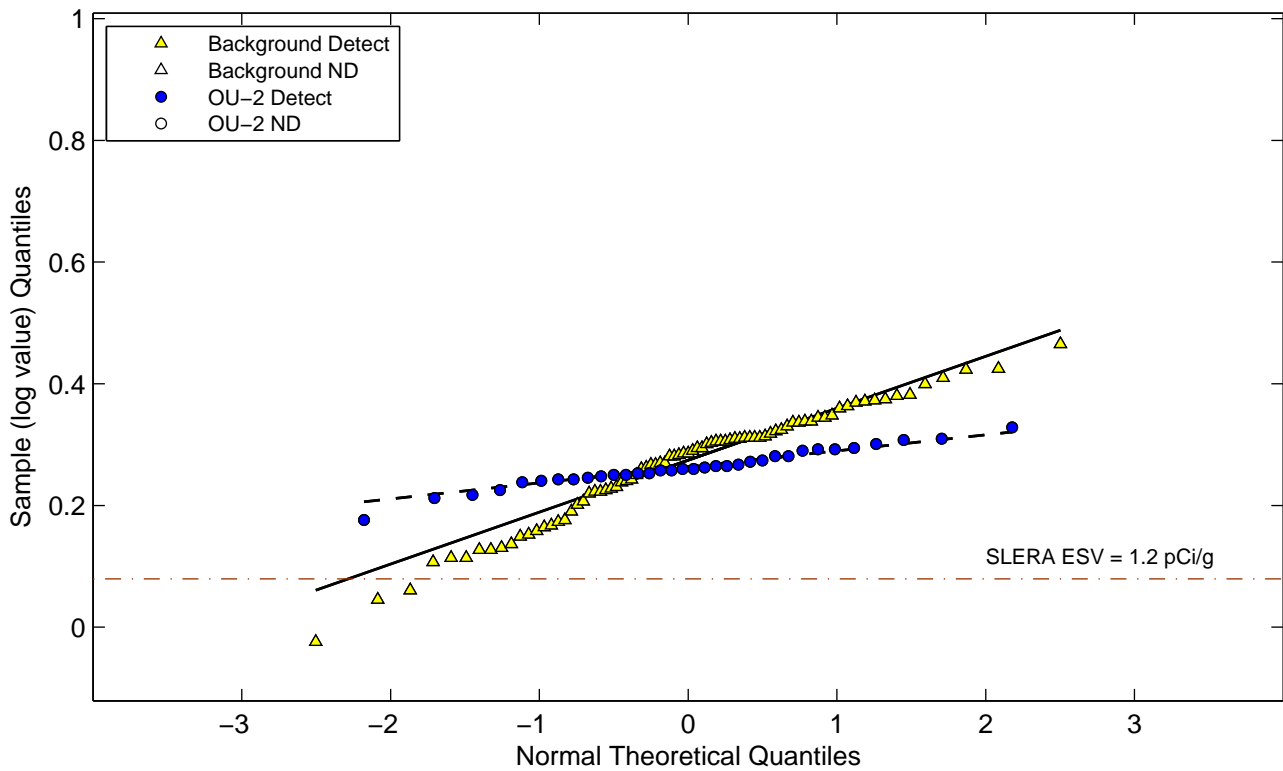
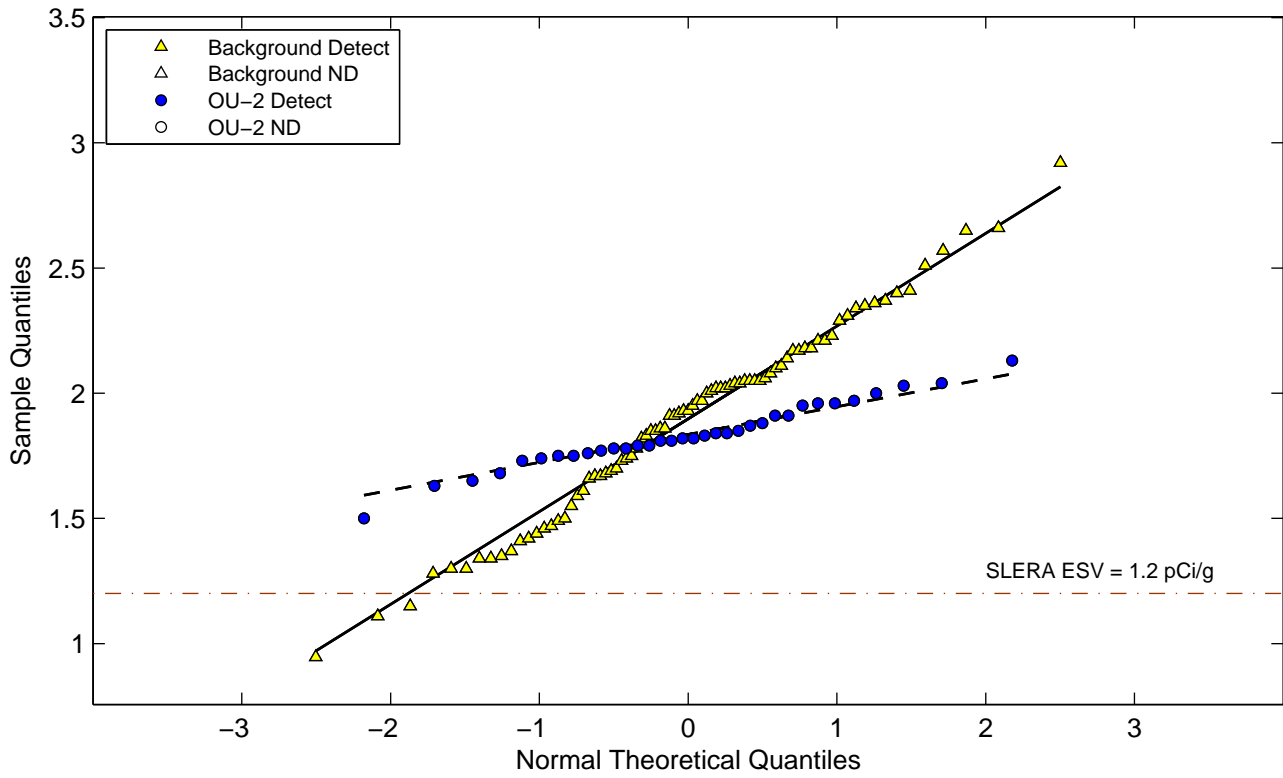


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Thorium-228

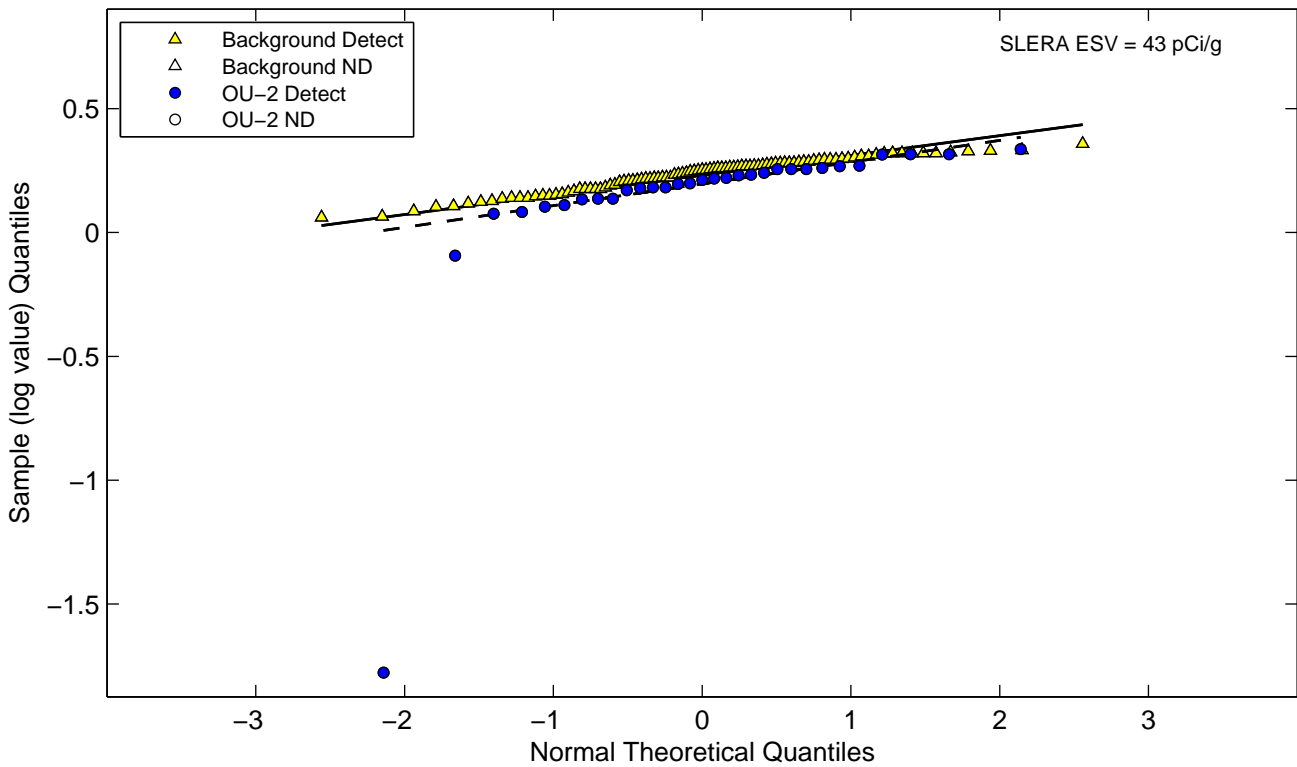
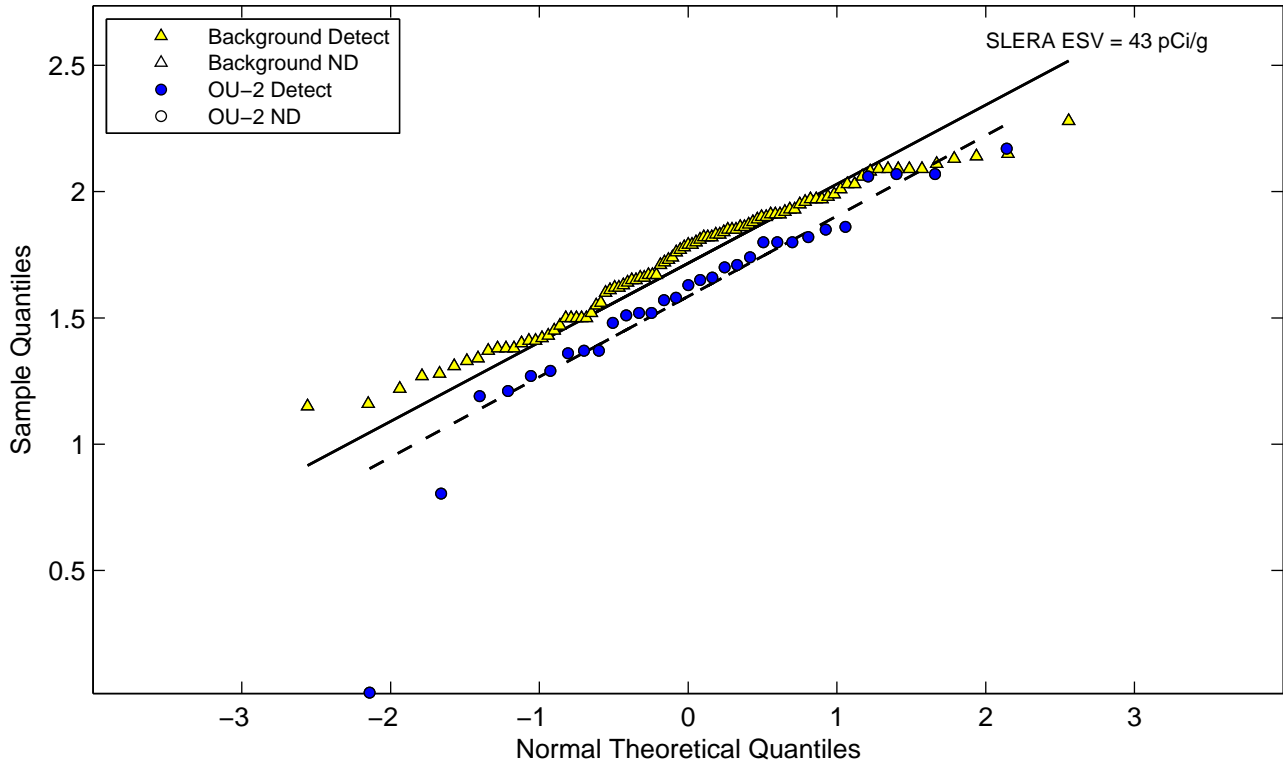


Figure D-2d. Normal and Lognormal Q-Q Plots for Radionuclides Uranium-235

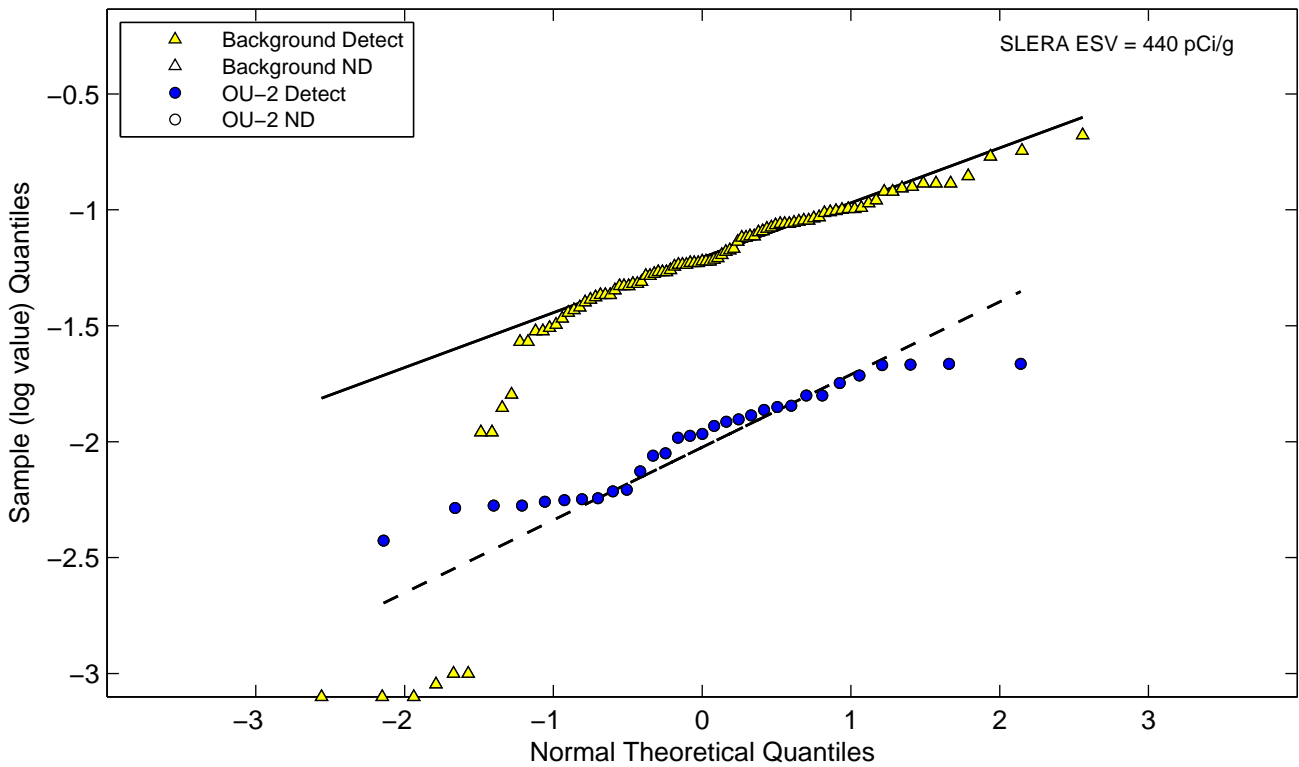
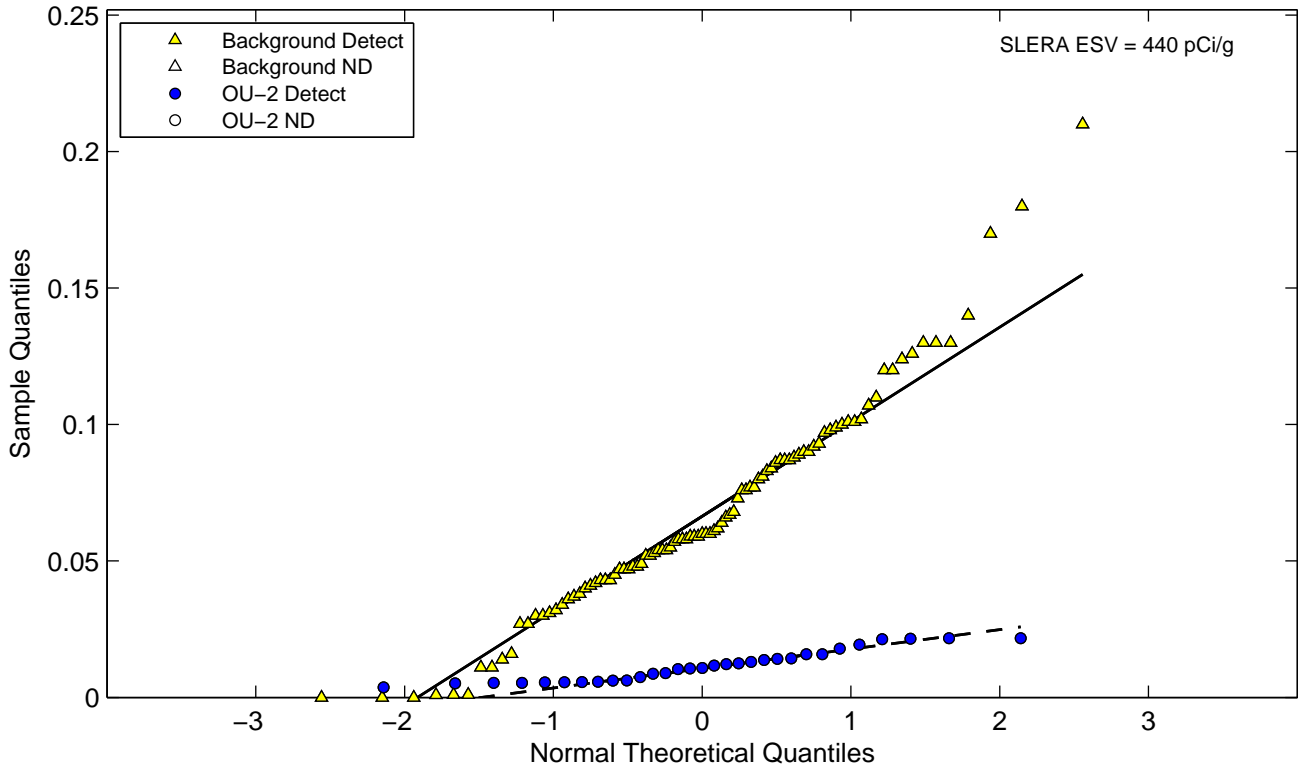


Figure D-2e. Background vs. OU-2 Boxplots for Inorganics
Nitrate (as N)

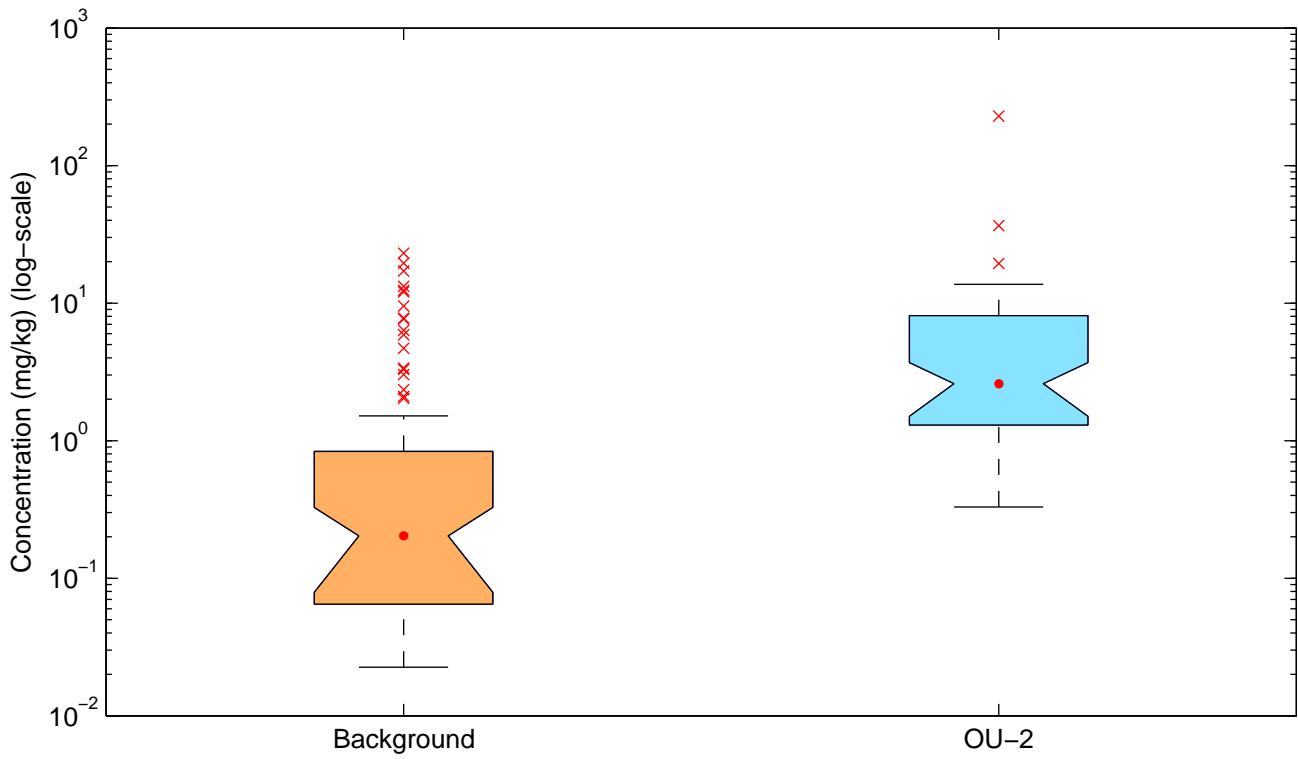
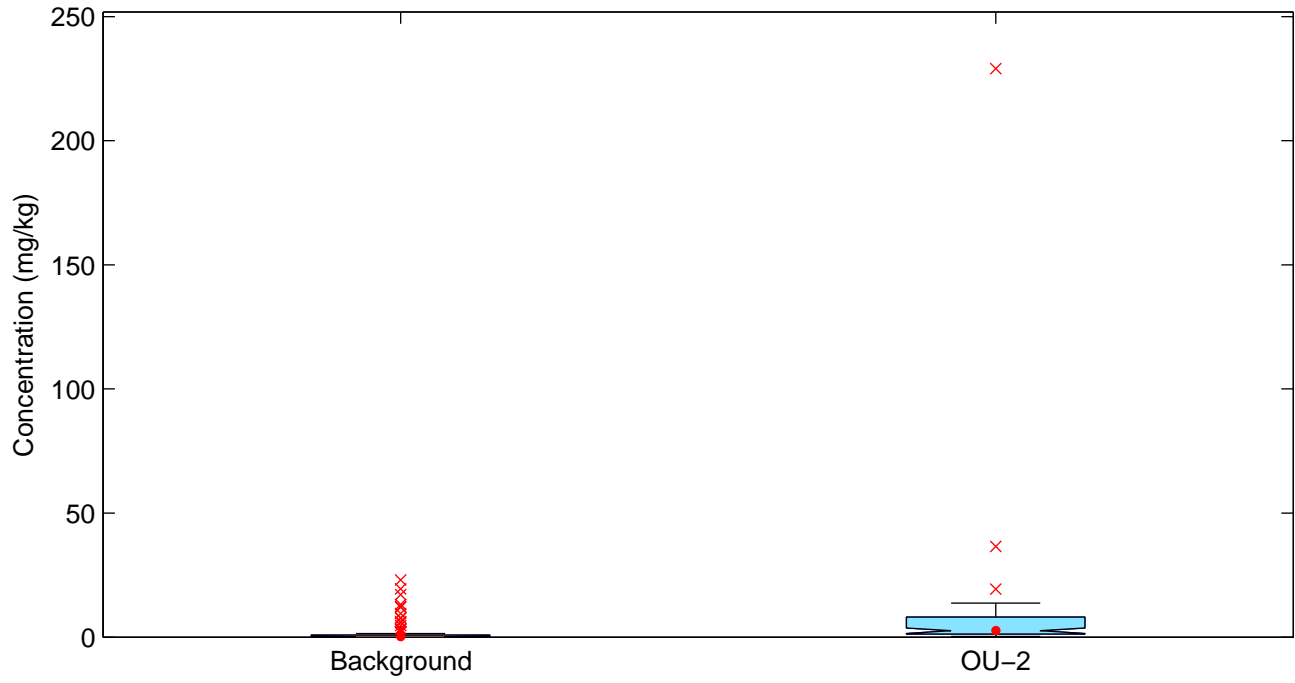


Figure D-2e. Background vs. OU-2 Boxplots for Inorganics
Nitrite (as N)

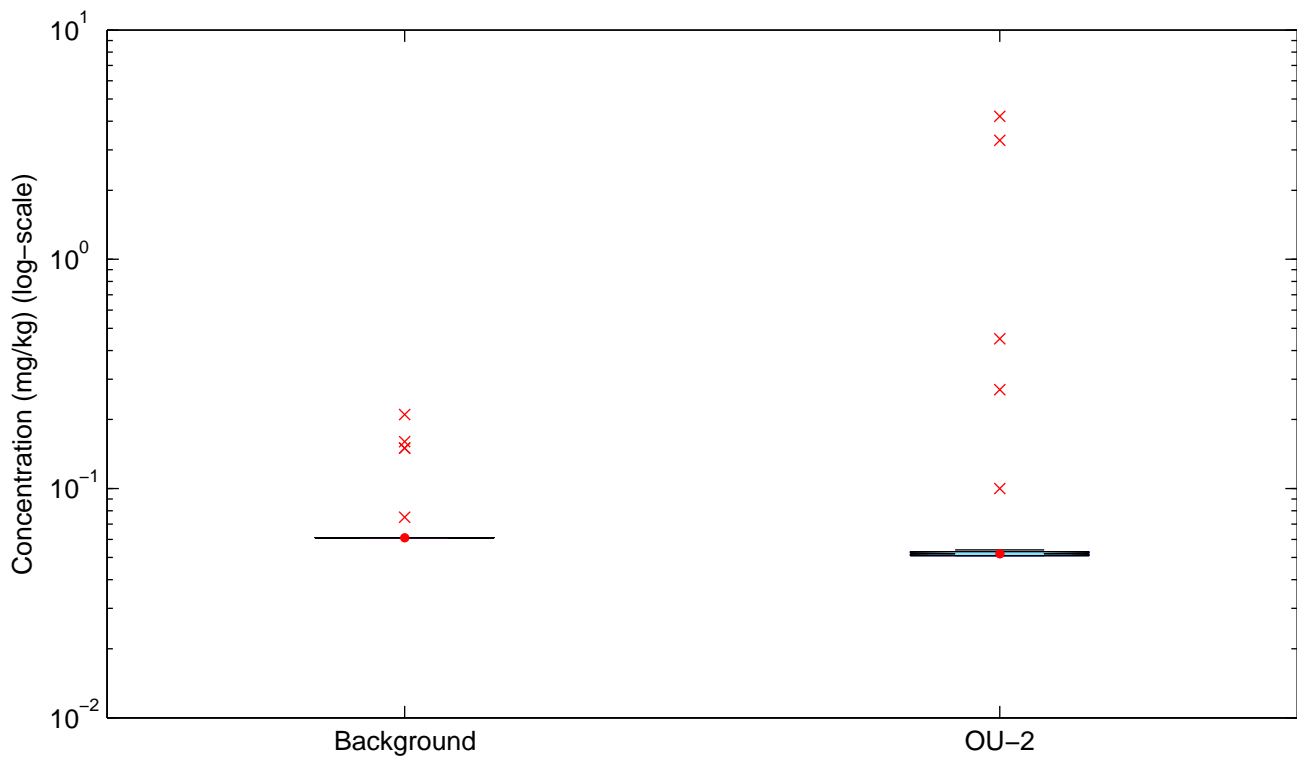
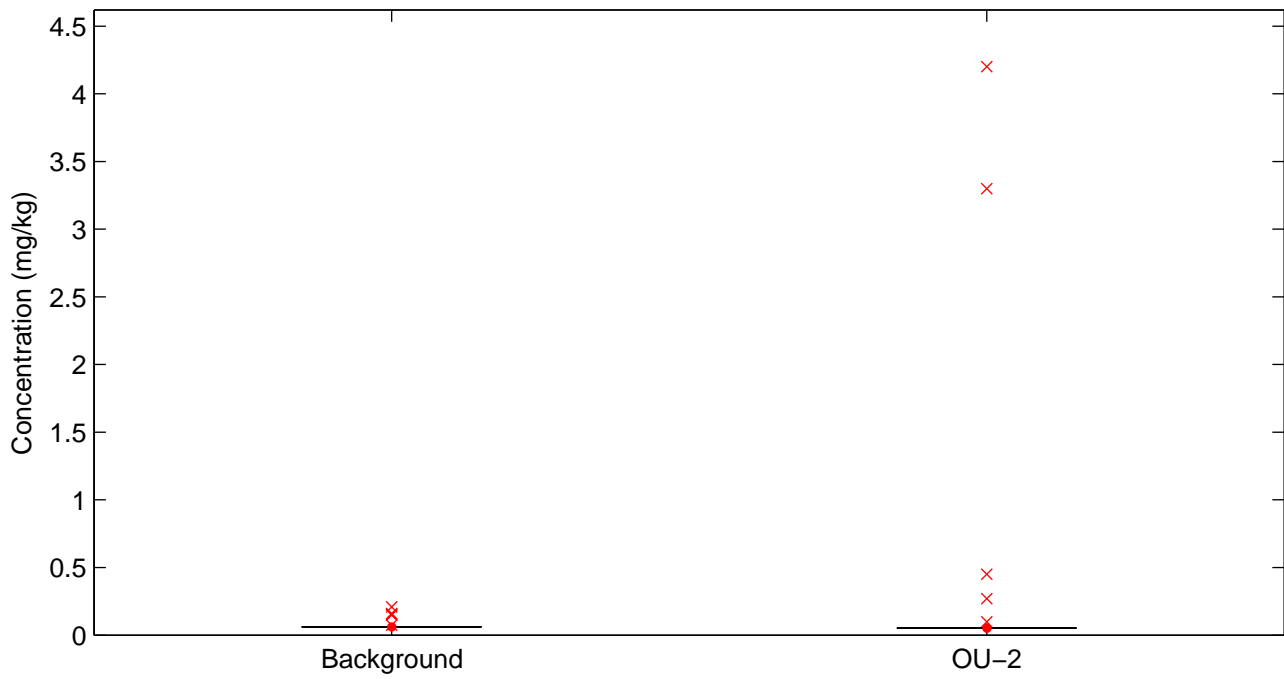


Figure D-2e. Background vs. OU-2 Boxplots for Inorganics Sulfate

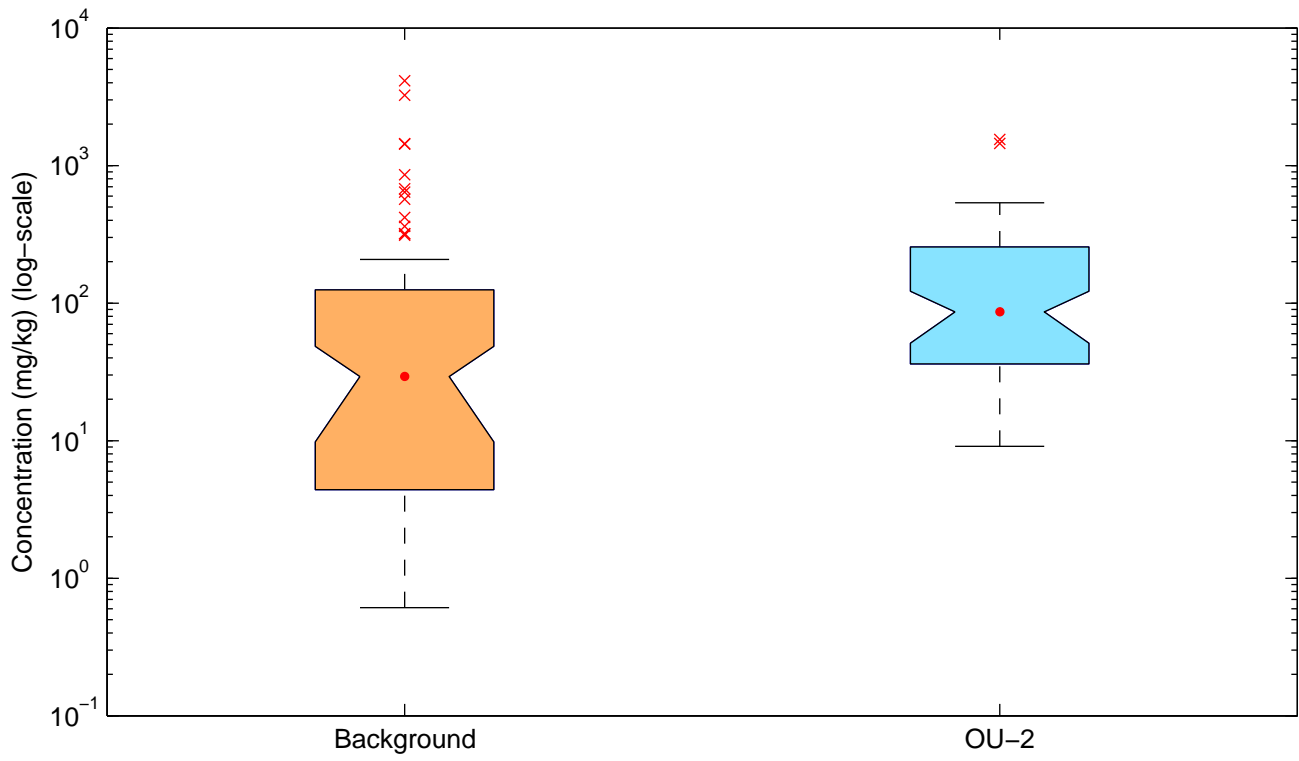
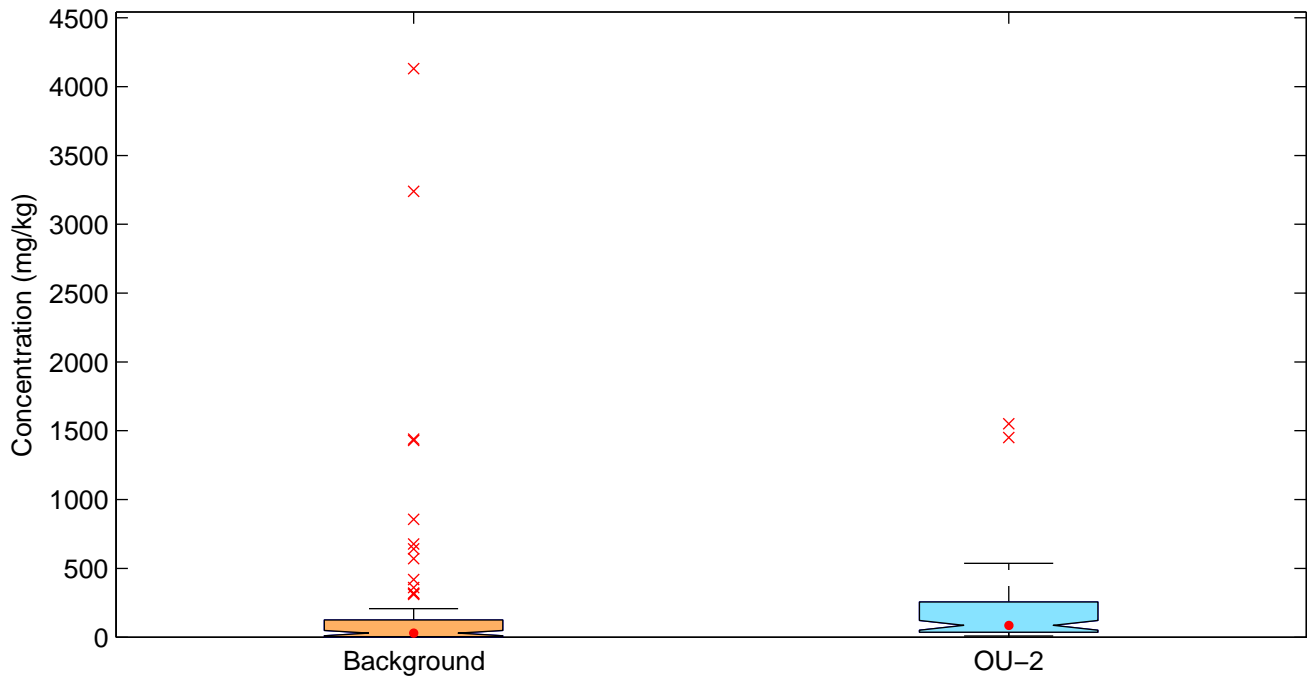


Figure D-2f. Normal and Lognormal Q-Q Plots for Inorganics Nitrate (as N)

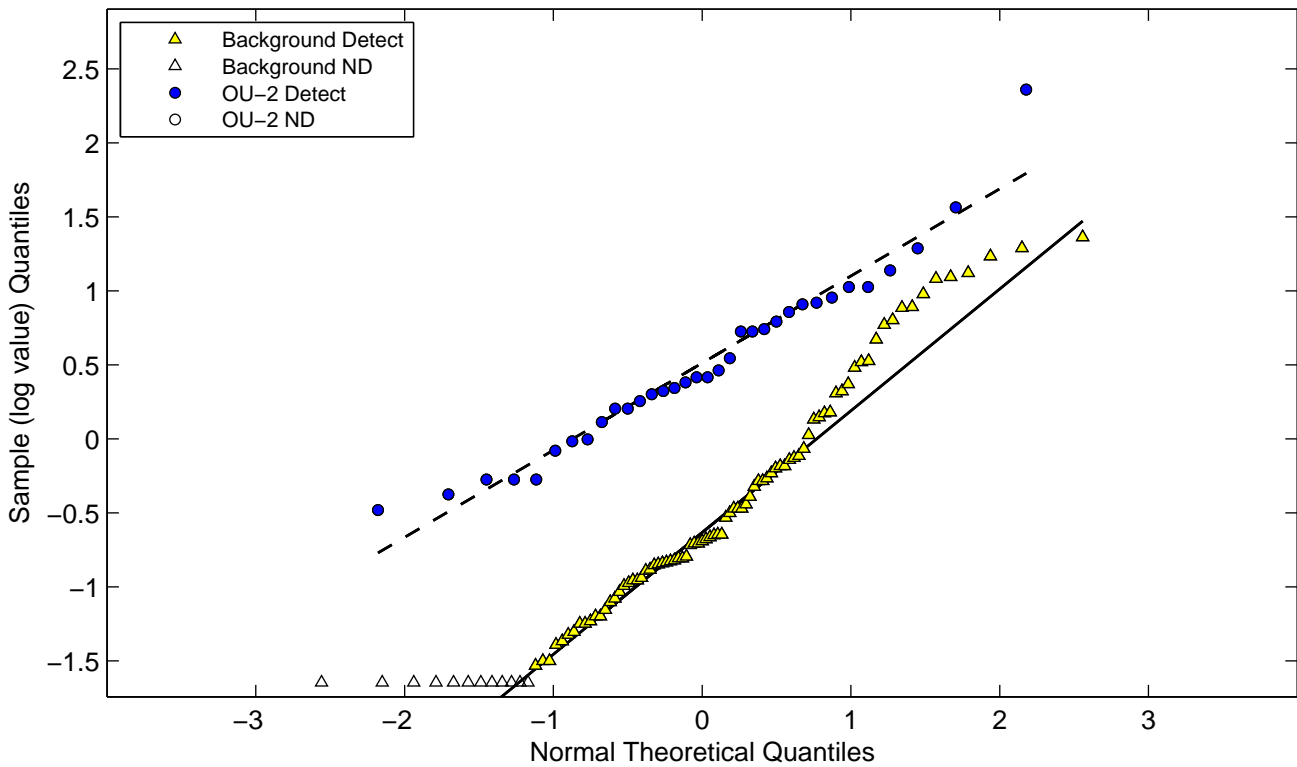
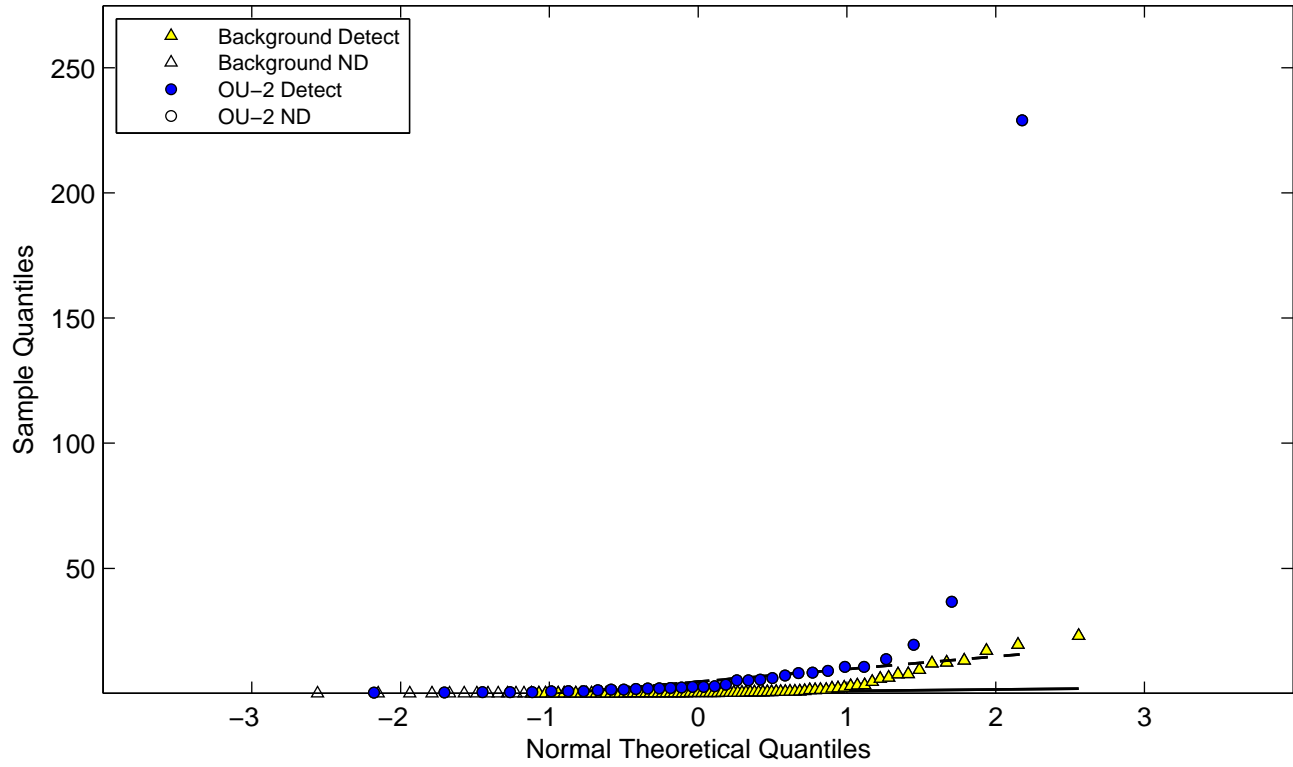


Figure D-2f. Normal and Lognormal Q-Q Plots for Inorganics Nitrite (as N)

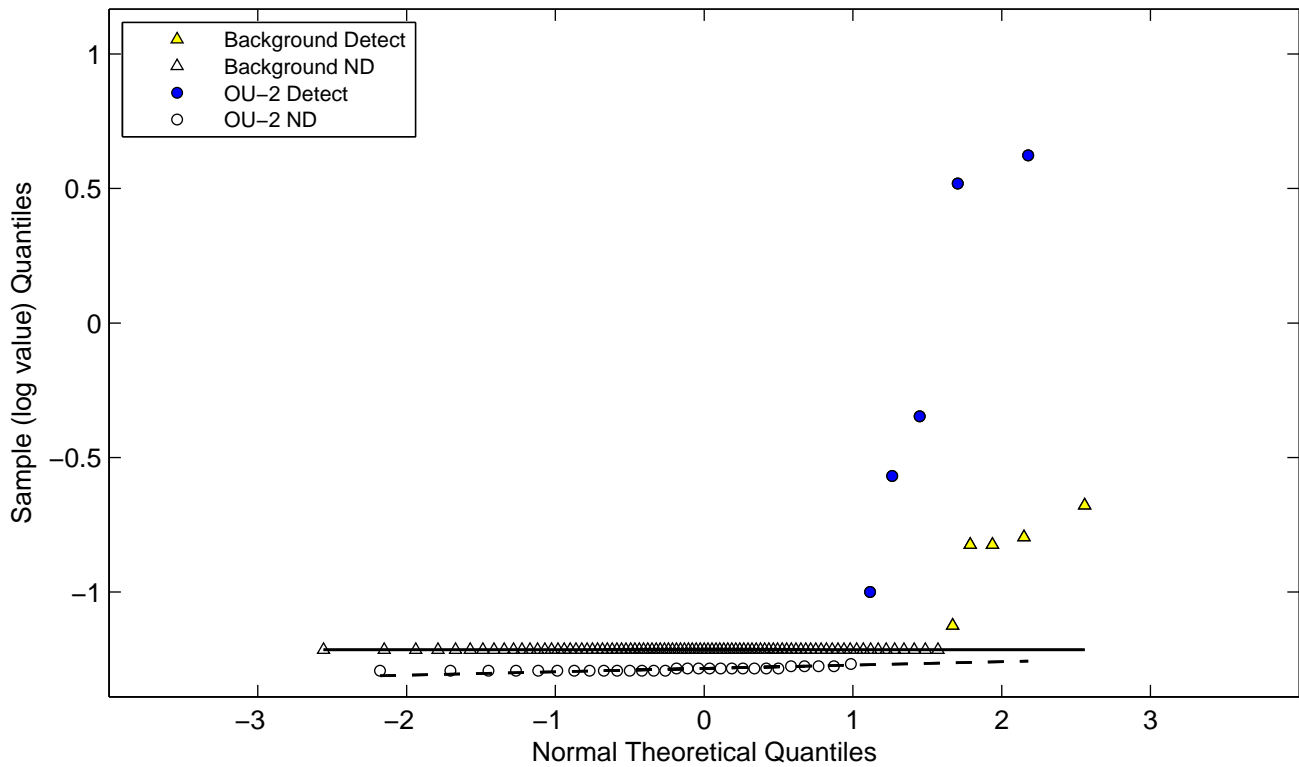
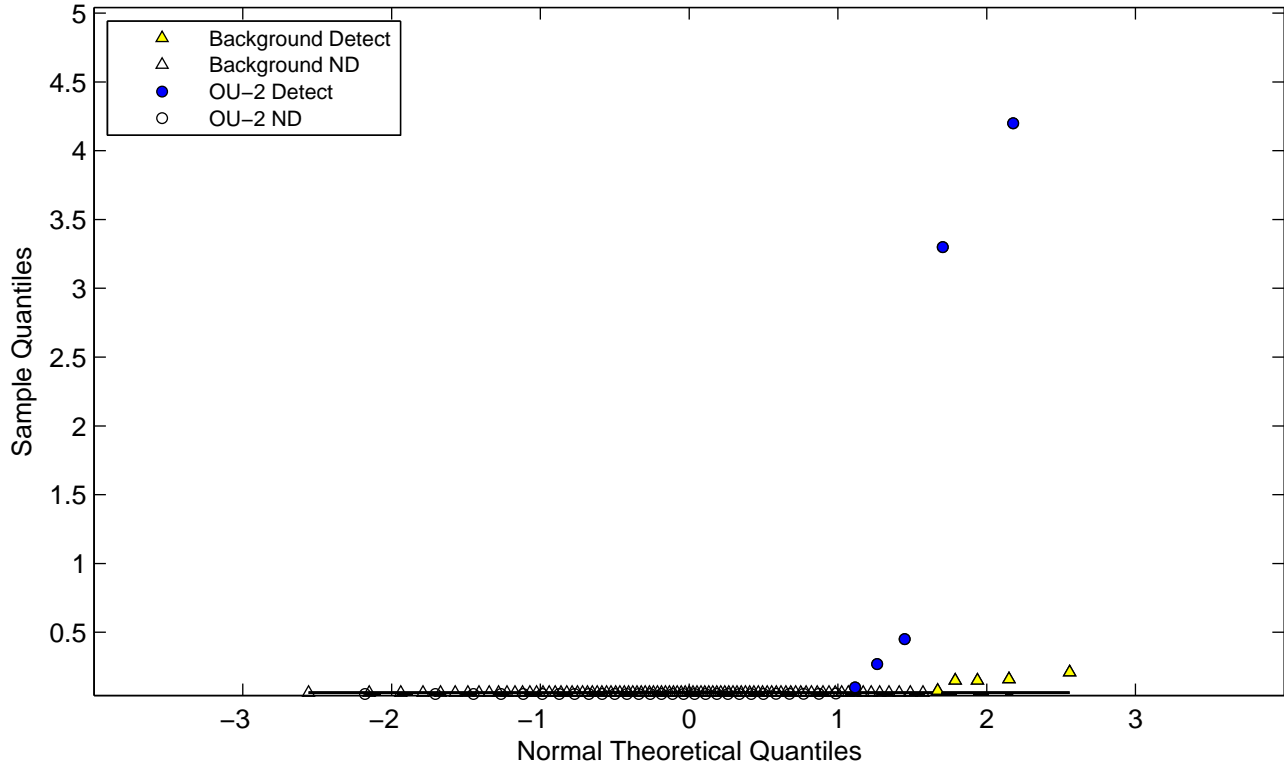


Figure D-2f. Normal and Lognormal Q-Q Plots for Inorganics Sulfate

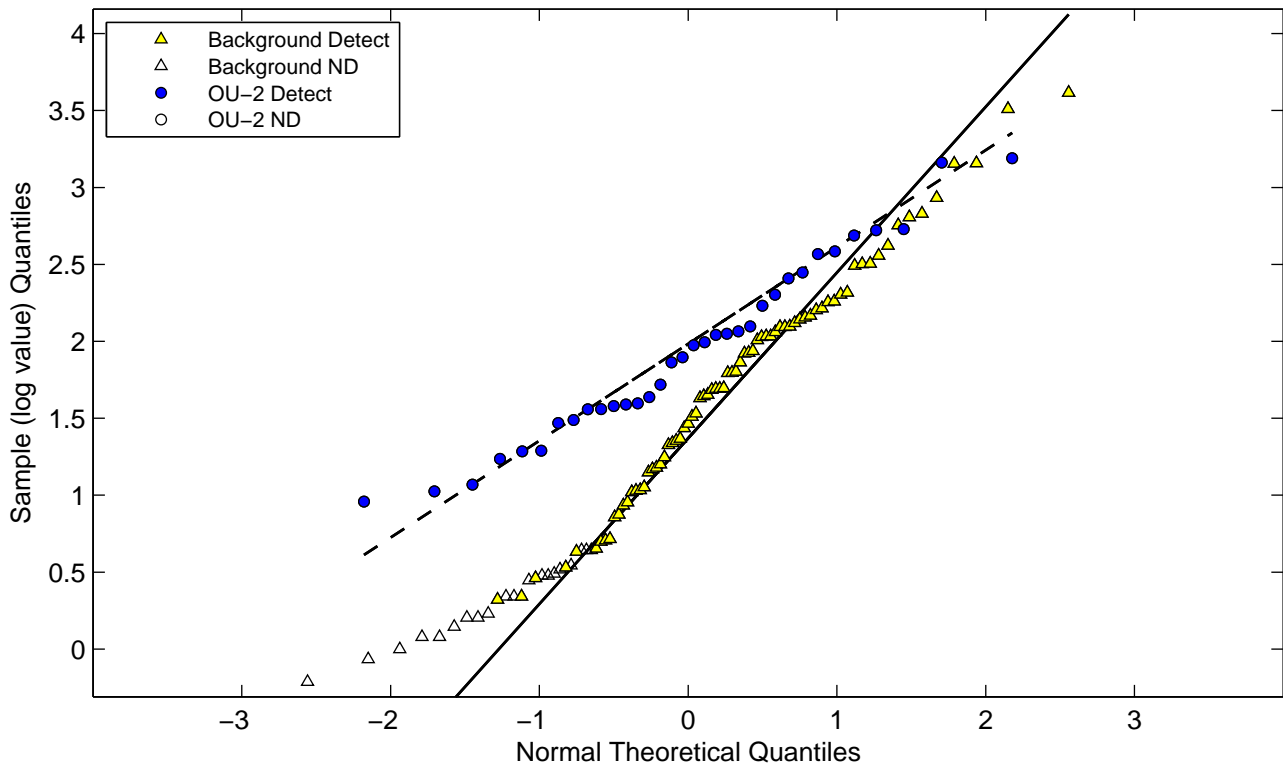
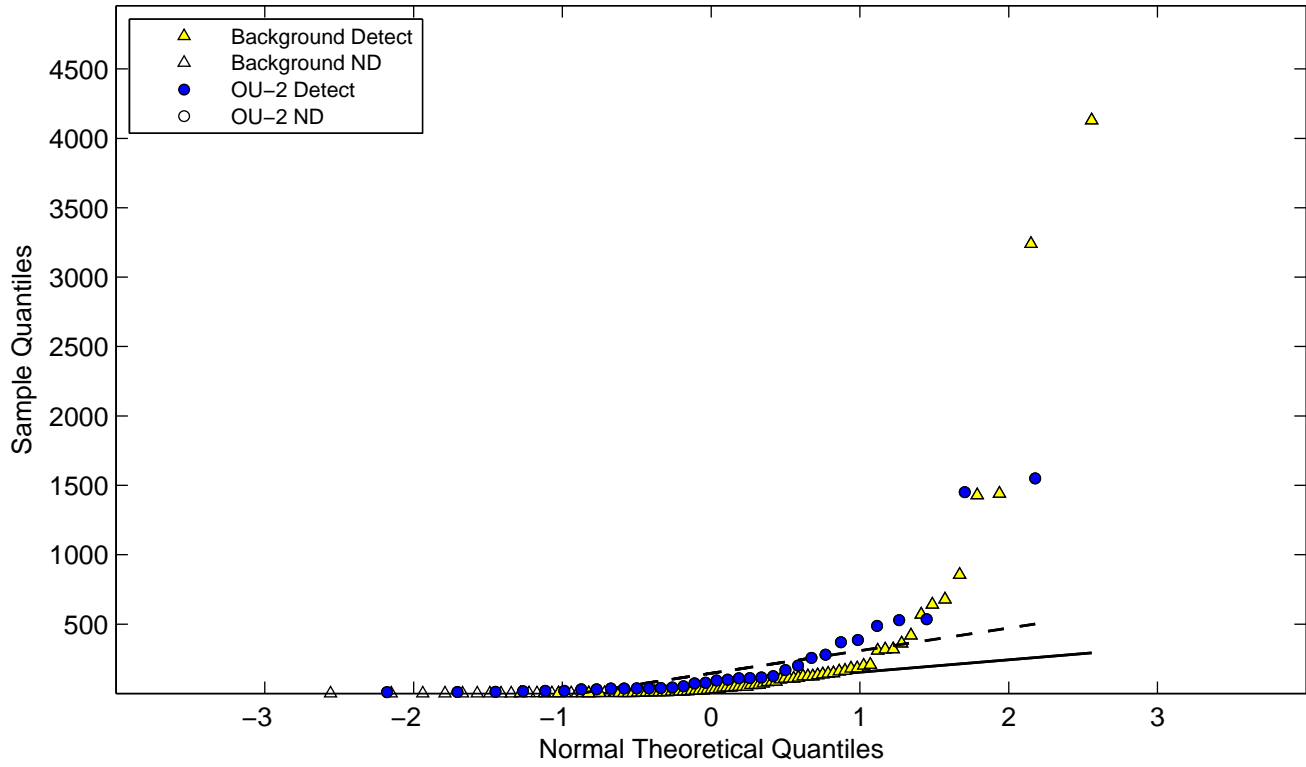


Table D-2a. Summary Statistics for Metals in Background (BRC/TIMET Regional) Soils and OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada

Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-Detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Aluminum	Background	95	95	100%	NA	NA	3,740	8,400	9,000	15,300	2,680	0.004	0.02
	OU-2	34	34	100%	NA	NA	5,770	8,420	8,240	9,750	818	0.05	0.004
Antimony	Background	95	43	45%	0.33	0.33	0.12	0.22	0.24	0.50	0.099	<0.001	<0.001
	OU-2	34	31	91%	0.10	0.10	0.11	0.16	0.18	0.42	0.078	<0.001	0.01
Arsenic	Background	95	95	100%	NA	NA	2.5	4.0	4.2	7.2	1.1	<0.001	0.1
	OU-2	34	34	100%	NA	NA	2.1	2.6	2.7	3.7	0.33	0.03	0.2
Barium	Background	95	95	100%	NA	NA	73	171	177	445	59.1	<0.001	0.6
	OU-2	34	34	100%	NA	NA	146	185	192	243	25.9	0.4	0.5
Beryllium	Background	95	95	100%	NA	NA	0.16	0.57	0.59	0.89	0.16	0.04	<0.001
	OU-2	34	34	100%	NA	NA	0.40	0.50	0.49	0.57	0.035	0.4	0.1
Boron	Background	95	34	36%	3.2	5.1	5.2	6.8	7.1	11.6	1.6	<0.001	<0.001
	OU-2	34	4	12%	2.8	2.8	4.0	5.7	6.6	11.1	3.4	<0.001	<0.001
Cadmium	Background	95	0	0%	0.13	0.13	NA	NA	NA	NA	NA	NA	NA
	OU-2	34	31	91%	0.01	0.01	0.086	0.13	0.18	0.59	0.14	<0.001	<0.001
Calcium	Background	95	95	100%	NA	NA	9,440	24,500	29,000	82,800	15,000	<0.001	0.1
	OU-2	34	34	100%	NA	NA	8,460	22,200	24,200	50,700	7,380	<0.001	<0.001
Chromium (total)	Background	95	95	100%	NA	NA	2.6	9.0	9.1	16.7	3.1	0.7	0.005
	OU-2	34	34	100%	NA	NA	5.7	10.8	10.7	15.9	2.2	1	0.2
Chromium VI	Background	95	0	0%	0.25	0.25	NA	NA	NA	NA	NA	NA	NA
	OU-2	34	17	50%	0.10	0.17	0.15	0.25	0.28	0.54	0.10	<0.001	0.001
Cobalt	Background	95	95	100%	NA	NA	3.7	9.0	8.8	16.3	2.3	0.1	0.009
	OU-2	34	34	100%	NA	NA	5.0	6.0	6.1	7.5	0.65	0.3	0.5
Copper	Background	95	95	100%	NA	NA	10.2	18.2	17.8	25.9	3.4	0.5	0.2
	OU-2	34	34	100%	NA	NA	10.1	13.1	14.4	31	3.9	<0.001	<0.001
Iron	Background	95	95	100%	NA	NA	5,410	13,200	13,100	19,700	3,410	0.2	<0.001
	OU-2	34	34	100%	NA	NA	7,850	13,500	13,100	17,200	1,780	0.3	0.01
Lead	Background	95	95	100%	NA	NA	3.0	7.2	8.2	35.1	4.2	<0.001	<0.001
	OU-2	34	34	100%	NA	NA	7.8	10.5	17.6	136	25.8	<0.001	<0.001
Lithium	Background	95	95	100%	NA	NA	7.5	12.9	14	26.5	4.4	<0.001	0.03
	OU-2	30	28	93%	1.5	3.7	10.9	13.7	13.7	16.9	1.7	<0.001	<0.001

**Table D-2a. Summary Statistics for Metals in Background (BRC/TIMET Regional) Soils and OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-Detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Magnesium	Background	95	95	100%	NA	NA	4,690	10,300	10,300	17,500	2,830	0.3	0.003
	OU-2	34	34	100%	NA	NA	5,050	8,020	7,970	9,790	920	0.1	0.008
Manganese	Background	95	95	100%	NA	NA	151	407	415	863	130	0.2	0.03
	OU-2	34	34	100%	NA	NA	256	374	383	668	87.6	0.004	0.3
Mercury	Background	95	73	77%	0.0072	0.0072	0.0084	0.018	0.023	0.11	0.017	<0.001	<0.001
	OU-2	34	24	71%	0.0067	0.0077	0.0073	0.012	0.012	0.016	0.0028	0.001	<0.001
Molybdenum	Background	95	95	100%	NA	NA	0.30	0.49	0.55	2.0	0.25	<0.001	<0.001
	OU-2	34	19	56%	0.10	0.10	0.43	0.59	0.62	1.1	0.15	<0.001	<0.001
Nickel	Background	95	95	100%	NA	NA	7.9	16.4	16.2	30	4.0	0.04	0.04
	OU-2	34	34	100%	NA	NA	10.1	14	14.4	23.7	2.7	<0.001	0.01
Niobium	Background	95	0	0%	1.0	2.8	NA	NA	NA	NA	NA	<0.001	<0.001
	OU-2	30	2	7%	1.5	1.5	1.6	1.8	1.8	2.0	0.28	<0.001	<0.001
Palladium	Background	95	95	100%	NA	NA	0.16	0.42	0.48	1.5	0.24	<0.001	0.3
	OU-2	30	30	100%	NA	NA	0.30	0.35	0.37	0.52	0.046	0.006	0.06
Phosphorus (total)	Background	95	95	100%	NA	NA	862	1,490	1,470	2,010	278	0.1	0.02
	OU-2	30	30	100%	NA	NA	527	904	929	1,510	206	0.3	0.5
Platinum	Background	95	5	5%	0.044	0.044	0.045	0.064	0.071	0.099	0.02	<0.001	<0.001
	OU-2	34	2	6%	0.011	0.02	0.012	0.014	0.014	0.016	0.0028	<0.001	<0.001
Potassium	Background	95	95	100%	NA	NA	625	1,580	1,750	3,890	759	<0.001	0.5
	OU-2	34	34	100%	NA	NA	2,390	3,070	3,190	4,800	619	<0.001	0.02
Selenium	Background	95	33	35%	0.16	0.16	0.23	0.31	0.33	0.60	0.076	<0.001	<0.001
	OU-2	34	1	3%	0.11	0.33	0.12	0.12	0.12	0.12	NA	<0.001	<0.001
Silicon	Background	95	95	100%	NA	NA	335	721	1,010	4,150	811	<0.001	<0.001
	OU-2	30	30	100%	NA	NA	131	637	595	1,320	260	0.2	0.007
Silver	Background	95	0	0%	0.26	0.26	NA	NA	NA	NA	NA	NA	NA
	OU-2	34	34	100%	NA	NA	0.086	0.12	0.13	0.82	0.12	<0.001	<0.001
Sodium	Background	95	95	100%	NA	NA	128	487	498	1,320	285	<0.001	<0.001
	OU-2	34	34	100%	NA	NA	202	431	542	1,720	330	<0.001	0.08
Strontium	Background	95	95	100%	NA	NA	75.5	192	232	808	133	<0.001	0.07
	OU-2	34	34	100%	NA	NA	118	144	152	204	20.9	0.08	0.3
Thallium	Background	95	21	22%	0.20	1.1	1.1	1.4	1.4	1.8	0.25	<0.001	<0.001
	OU-2	34	4	12%	0.20	0.20	0.084	0.17	0.16	0.20	0.056	<0.001	<0.001
Tin	Background	95	95	100%	NA	NA	0.24	0.51	0.50	0.80	0.11	0.5	0.1
	OU-2	34	31	91%	0.053	0.053	0.45	0.53	0.63	1.5	0.25	<0.001	<0.001

**Table D-2a. Summary Statistics for Metals in Background (BRC/TIMET Regional) Soils and OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-Detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Titanium	Background	95	95	100%	NA	NA	262	539	561	1,010	151	0.03	0.9
	OU-2	34	34	100%	NA	NA	342	656	644	982	134	0.1	<i>0.006</i>
Tungsten	Background	95	0	0%	0.49	2.5	NA	NA	NA	NA	NA	<0.001	0.3
	OU-2	34	4	12%	0.20	0.20	0.30	0.39	0.51	0.98	0.31	<0.001	<0.001
Uranium (total)	Background	94	94	100%	NA	NA	0.62	0.97	1.0	2.7	0.31	<0.001	<0.001
	OU-2	34	34	100%	NA	NA	0.69	0.90	0.91	1.3	0.12	<i>0.01</i>	0.1
Vanadium	Background	95	95	100%	NA	NA	20.2	38.4	39.1	59.1	8.4	0.6	0.1
	OU-2	34	34	100%	NA	NA	18.3	31.8	31.7	53.4	6.6	0.03	0.05
Zinc	Background	95	95	100%	NA	NA	15.4	37.9	37.8	121	13	<0.001	<i>0.004</i>
	OU-2	34	34	100%	NA	NA	26.4	32.5	43.3	211	35.2	<0.001	<0.001
Zirconium	Background	95	95	100%	NA	NA	86.1	129	131	179	22.2	0.05	0.4
	OU-2	30	30	100%	NA	NA	4.9	22.2	21.7	26.9	3.7	<0.001	<0.001

Notes:

mg/kg = milligram per kilogram

NA = value not available

p-values < 0.01 are shown in italic.

BRC/TIMET regional background dataset is used as background.

Shapiro Wilk tests use 1/2 the detection limit (DL) for non-detects.

Table D-2b. Background Comparisons for Metals in OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada

Chemical Name	Location	Distribution	t-test	t-test (logged data)	Gehan Test	Quantile Test (0.8)	Slippage Test	Fail Statistical Testing for Background Consistency?
			(p-value)	(p-value)	(p-value)	(p-value)	(p-value)	
Aluminum	OU-2	NP	1	0.9	0.7	1	1	No
Antimony	OU-2	NP	1	1	1	0.9	1	No
Arsenic	OU-2	LN	1	1	1	1	1	No
Barium	OU-2	LN	0.03	0.001	0.01	0.6	1	Yes
Beryllium	OU-2	N	1	1	1	1	1	No
Boron	OU-2	NP	1	1	1	1	1	LDF
Cadmium	OU-2	NP	NA	NA	NA	NA	<0.001	LDF
Calcium	OU-2	NP	1	0.9	0.7	1	1	No
Chromium (total)	OU-2	N	<0.001	<0.001	0.002	0.1	1	Yes
Chromium VI	OU-2	NP	NA	NA	NA	NA	<0.001	LDF
Cobalt	OU-2	N	1	1	1	1	1	No
Copper	OU-2	NP	1	1	1	1	0.3	No
Iron	OU-2	N	0.6	0.3	0.7	1	1	No
Lead	OU-2	NP	0.02	<0.001	<0.001	<0.001	0.07	Yes
Lithium	OU-2	NP	0.9	0.9	0.4	1	1	No
Magnesium	OU-2	N	1	1	1	1	1	No
Manganese	OU-2	LN	0.9	0.8	0.9	1	1	No
Mercury	OU-2	NP	1	1	1	1	1	No
Molybdenum	OU-2	NP	1	1	1	1	1	No
Nickel	OU-2	LN	1	1	1	1	1	No
Niobium	OU-2	NP	0.03	0.001	0.01	1	1	LDF
Palladium	OU-2	LN	1	1	0.9	1	1	No
Phosphorus (total)	OU-2	N, LN	1	1	1	1	1	No
Platinum	OU-2	NP	1	1	0.9	1	1	LDF
Potassium	OU-2	LN	<0.001	<0.001	<0.001	<0.001	0.004	Yes

Table D-2b. Background Comparisons for Metals in OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada

Chemical Name	Location	Distribution	t-test	t-test (logged data)	Gehan Test	Quantile Test (0.8)	Slippage Test	Fail Statistical Testing for Background Consistency?
			(p-value)	(p-value)	(p-value)	(p-value)	(p-value)	
Selenium	OU-2	NP	0.9	0.08	1	1	1	LDF
Silicon	OU-2	NP	1	1	1	1	1	No
Silver	OU-2	NP	NA	NA	NA	NA	0.3	LDF
Sodium	OU-2	NP	0.2	0.09	0.4	0.9	0.07	No
Strontium	OU-2	LN	1	1	1	1	1	No
Thallium	OU-2	NP	1	1	1	1	1	LDF
Tin	OU-2	NP	0.08	0.7	<i>0.02</i>	0.4	<i>0.02</i>	Yes
Titanium	OU-2	N	<i>0.002</i>	<i>0.001</i>	<i><0.001</i>	<i>0.008</i>	1	Yes
Tungsten	OU-2	NP	1	1	0.2	0.06	1	LDF
Uranium (total)	OU-2	NP	1	1	1	1	1	No
Vanadium	OU-2	N, LN	1	1	1	1	1	No
Zinc	OU-2	NP	0.2	0.3	0.9	0.9	0.07	No
Zirconium	OU-2	NP	1	1	1	1	1	No

Notes:

LDF = Low detection frequency (<25%) in either site or background datasets. Background comparison results may not be applicable.

NA = value not available

p-values in italics indicate $p < 0.025$

Background comparison tests use 1/2 the detection limit (DL) for non-detects in the parametric test (t-test) and the DL for non-parametric tests (Gehan test, quantile test, and slippage test).

BRC/TIMET regional background dataset is used as background.

For small sample size (≤ 100), final background determination is based on both parametric and non-parametric testing results.

Distribution:

N = OU-2 SLERA Area data and background data consistent with normal distribution

LN = OU-2 SLERA Area data and background data consistent with log-normal distribution

NP = OU-2 SLERA Area data or background data is not consistent with both normal distribution and log-normal distribution.

**Table D-2c. Summary Statistics for Radionuclides in Background (BRC/TIMET Regional) Soils and OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chain	Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Detects (pCi/g)					Shapiro-Wilk Test	
						Minimum	Median	Mean	Maximum	Standard Deviation	Normal (<i>p</i> -value)	Lognormal (<i>p</i> -value)
Uranium-238	Uranium-238	Background	95	95	100%	0	1.1	1.2	2.4	0.36	<i><0.001</i>	<i>0.002</i>
		OU-2	31	31	100%	0.13	0.25	0.26	0.47	0.078	0.3	0.6
	Uranium-234	Background	95	95	100%	0.63	1.1	1.2	2.8	0.47	<i><0.001</i>	<i><0.001</i>
		OU-2	31	31	100%	0.23	0.34	0.37	0.79	0.12	<i><0.001</i>	0.04
	Thorium-230	Background	95	95	100%	0.73	1.2	1.3	3.0	0.40	<i><0.001</i>	0.1
		OU-2	31	31	100%	0.31	1.1	1.1	1.4	0.26	0.01	<i><0.001</i>
	Radium-226	Background	95	95	100%	0.49	1.1	1.1	2.4	0.34	<i><0.001</i>	0.2
		OU-2	34	34	100%	0.88	1.0	1.0	1.2	0.081	0.03	0.1
Thorium-232	Thorium-232	Background	95	95	100%	1.2	1.7	1.7	2.2	0.26	<i>0.008</i>	<i>0.008</i>
		OU-2	31	31	100%	0.039	1.5	1.5	2.4	0.39	<i><0.001</i>	<i><0.001</i>
	Thorium-228	Background	95	95	100%	1.2	1.8	1.7	2.3	0.26	0.05	<i>0.003</i>
		OU-2	31	31	100%	0.017	1.6	1.6	2.2	0.41	<i>0.001</i>	<i><0.001</i>
	Radium-228	Background	81	81	100%	0.95	1.9	1.9	2.9	0.39	0.8	0.04
		OU-2	34	34	100%	1.5	1.8	1.8	2.1	0.13	0.9	0.7
Uranium-235	Uranium-235	Background	95	95	100%	NA	0.06	0.067	0.21	0.04	<i>0.003</i>	<i><0.001</i>
		OU-2	31	31	100%	0.0037	0.011	0.012	0.022	0.0057	0.01	0.05

Notes:

pCi/g = picocurie per gram

NA = value not available

p-values < 0.01 are shown in italic.

BRC/TIMET regional background dataset is used as background.

Shapiro Wilk tests use 1/2 the detection limit (DL) for non-detects.

**Table D-2d. Background Comparisons for Radionuclides in OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chain	Chemical Name	Location	Distribution	<i>t</i> -test	<i>t</i> -test (logged data)	Gehan Test	Quantile Test (0.8)	Slippage Test	Fail Statistical Testing for Background Consistency?
				(<i>p</i> -value)	(<i>p</i> -value)	(<i>p</i> -value)	(<i>p</i> -value)	(<i>p</i> -value)	
Uranium-238	Uranium-238	OU-2	NP	1	1	1	1	1	No
	Uranium-234	OU-2	NP	1	1	1	1	1	No
	Thorium-230	OU-2	NP	1	1	1	1	1	No
	Radium-226	OU-2	LN	1	1	1	1	1	No
Thorium-232	Thorium-232	OU-2	NP	1	0.9	1	1	0.2	No
	Thorium-228	OU-2	NP	1	0.9	1	0.9	1	No
	Radium-228	OU-2	N, LN	0.9	0.7	0.9	1	1	No
Uranium-235	Uranium-235	OU-2	NP	1	1	1	1	1	No

Notes:

NA = value not available

p-values in italics indicate $p < 0.025$

Background comparison tests use 1/2 the detection limit (DL) for non-detects in the parametric test (*t*-test) and the DL for non-parametric tests (Gehan test, quantile test, and slippage test).

BRC/TIMET regional background dataset is used as background.

For small sample size (≤ 100), final background determination is based on both parametric and non-parametric testing results.

Distribution:

N = OU-2 SLERA Area data and background data consistent with normal distribution

LN = OU-2 SLERA Area data and background data consistent with log-normal distribution

NP = OU-2 SLERA Area data or background data is not consistent with both normal distribution and log-normal distribution.

**Table D-2e. Summary Statistics for Inorganics in Background (BRC/TIMET Regional) Soils and OU-2 Soils
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Name	Location	No. of Samples	No. of Detects	% Detects	Non-Detects (mg/kg)		Detects (mg/kg)					Shapiro-Wilk Test	
					Minimum	Maximum	Minimum	Median	Mean	Maximum	Standard Deviation	Normal (p-value)	Lognormal (p-value)
Nitrate (as N)	Background	95	83	87%	0.023	0.023	0.029	0.29	2.1	23	4.5	<0.001	0.006
	OU-2	34	34	100%	NA	NA	0.33	2.6	12	229	39	<0.001	0.2
Nitrite (as N)	Background	95	5	5%	0.061	0.061	0.075	0.15	0.15	0.21	0.048	<0.001	<0.001
	OU-2	34	5	15%	0.051	0.054	0.10	0.45	1.7	4.2	1.9	<0.001	<0.001
Sulfate	Background	95	75	79%	0.61	4.4	2.1	62.3	247	4,130	638	<0.001	0.09
	OU-2	34	34	100%	NA	NA	9.1	86.4	219	1,550	360	<0.001	0.4

Notes:

mg/kg = milligram per kilogram

NA = value not available

p-values < 0.01 are shown in italic.

BRC/TIMET regional background dataset is used as background.

Shapiro Wilk tests use 1/2 the detection limit (DL) for non-detects.

**Table D-2f. Background Comparisons for Inorganics in OU-2
Soils Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Name	Location	Distribution	t-test	t-test (logged data)	Gehan Test	Quantile Test (0.8)	Slippage Test	Fail Statistical Testing for Background Consistency?
			(p-value)	(p-value)	(p-value)	(p-value)	(p-value)	
Nitrate (as N)	OU-2	NP	0.07	<0.001	<0.001	0.7	0.07	Yes
Nitrite (as N)	OU-2	NP	0.07	0.2	0.03	0.6	0.004	LDF
Sulfate	OU-2	LN	0.4	<0.001	0.001	0.9	1	Yes

Notes:

LDF = Low detection frequency (<25%) in either site or background datasets. Background comparison results may not be applicable.

NA = value not available

p-values in italics indicate $p < 0.025$

Background comparison tests use 1/2 the detection limit (DL) for non-detects in the parametric test (t-test) and the DL for non-parametric tests (Gehan test, quantile test, and slippage test).

BRC/TIMET regional background dataset is used as background.

For small sample size (≤ 100), final background determination is based on both parametric and non-parametric testing results.

Distribution:

N = Study area data and background data consistent with normal distribution

LN = Study area data and background data consistent with log-normal distribution

NP = Study area data or background data is not consistent with both normal distribution and log-normal distribution.

Table D-2g. Equivalence Test for Secular Equilibrium of Uranium Decay Series (U-238 Chain)¹

Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Location	p-value	Conclusion ²	Delta	Sample Size ³	Number Missing ⁴	Analyte	Mean Proportions of Radioactivity	95% Confid. Intervals		Shifts ⁵
								Lower	Upper	
BRC/TIMET regional background	<0.0001	in Secular Equilibrium	0.1	95	0	Ra-226	0.2396	0.2260	0.2531	0
						Th-230	0.2714	0.2595	0.2834	0
						U-234	0.2451	0.2339	0.2563	0
						U-238	0.2439	0.2341	0.2537	0
OU-2	0.5000	Not in Secular Equilibrium	0.1	31	3	Ra-226	0.3818	0.3418	0.4218	0
						Th-230	0.3902	0.3474	0.4330	0
						U-234	0.1334	0.1140	0.1528	0
						U-238	0.0946	0.0822	0.1070	0

Note:

1. Analyzed using the R code used in EnviroGISdT software tool from Neptune & Company, Inc.
2. Tool states "in Secular Equilibrium" if the computed *p*-value is less than a standard significance level of 0.05.
3. Sample dataset includes field duplicates.
4. Count of sampling locations for which one or more results are unavailable. These sampling locations are not counted in the sample size and are not included in the secular equilibrium calculation.
5. Data Shift - Lists the values of the data shift utilized by the tool in case of negative radioactivity measurements. All measurements values for that radioisotope are shifted upwards by the shift value so that all values are non-negative. A zero shift value indicates lack of negative measurements.

Table D-2h. Equivalence Test for Secular Equilibrium of Thorium Decay Series (Th-232 Chain)¹

Nevada Environmental Response Trust Remediation Project Site, Henderson, Nevada

Location	p-value	Conclusion ²	Delta	Sample Size ³	Number Missing ⁴	Analyte	Mean Proportions of Radioactivity	95% Confid. Intervals		Shifts ⁵
								Lower	Upper	
BRC/TIMET regional background	<0.0001	in Secular Equilibrium	0.1	81	14	Ra-228	0.3564	0.3417	0.3710	0
						Th-228	0.3294	0.3203	0.3385	0
						Th-232	0.3143	0.3052	0.3234	0
OU-2	<0.0001	in Secular Equilibrium	0.1	31	3	Ra-228	0.3890	0.3270	0.4510	0
						Th-228	0.3117	0.2765	0.3469	0
						Th-232	0.2993	0.2552	0.3325	0

Note:

1. Analyzed using the R code used in EnviroGISdT software tool from Neptune & Company, Inc.
2. Tool states "in Secular Equilibrium" if the computed *p*-value is less than a standard significance level of 0.05.
3. Sample dataset includes field duplicates.
4. Count of sampling locations for which one or more results are unavailable. These sampling locations are not counted in the sample size and are not included in the secular equilibrium calculation.
5. Data Shift - Lists the values of the data shift utilized by the tool in case of negative radioactivity measurements. All measurements values for that radioisotope are shifted upwards by the shift value so that all values are non-negative. A zero shift value indicates lack of negative measurements.

Table D-2i. Correlation Matrices for the Uranium Decay Series and the Thorium Decay Series
 Nevada Environmental Response Trust Site, Henderson, Nevada

i) BRC/TIMET Regional Background Soils

Uranium Decay Chain				
Correl.	Ra-226	Th-230	U-234	U-238
Ra-226	1	0.626	0.668	0.671
Th-230	0.626	1	0.765	0.754
U-234	0.668	0.765	1	0.870
U-238	0.671	0.754	0.870	1

Thorium Decay Chain			
Correl.	Ra-228	Th-228	Th-232
Ra-228	1	0.383	0.363
Th-228	0.383	1	0.751
Th-232	0.363	0.751	1

iii) OU-2 Soils

Uranium Decay Chain				
Correl.	Ra-226	Th-230	U-234	U-238
Ra-226	1	-0.197	0.023	0.097
Th-230	-0.197	1	0.338	0.338
U-234	0.023	0.338	1	0.857
U-238	0.097	0.338	0.857	1

Thorium Decay Chain			
Correl.	Ra-228	Th-228	Th-232
Ra-228	1	0.026	-0.132
Th-228	0.026	1	0.761
Th-232	-0.132	0.761	1

APPENDIX E
SUMMARY OF 95% UCLs FOR CONSTITUENTS
RETAINED FOR REFINED SCREENING

E-1 Summary of 95% UCLs for Constituents Retained for Refined Screening

**TABLE E-1. Summary of 95% UCLs for Constituents Retained for Refined Screening
Nevada Environmental Response Trust Site
Henderson, Nevada**

All concentrations in mg/kg.

Chemical Group	Chemical Name	OU-2			Background		
		Maximum Detect	Students-t 95% UCL	BCa Bootstrap 95% UCL	Maximum Detect	Students-t 95% UCL	BCa Bootstrap 95% UCL
General Chemistry	Bromide	7.60E+00	1.60E+00	1.78E+00	--	--	--
General Chemistry	Bromine	1.52E+01	5.04E+00	5.16E+00	--	--	--
General Chemistry	Chlorate	6.30E+00	6.67E+00	4.56E+00	--	--	--
General Chemistry	Chloric acid	4.60E+00	1.26E+00	1.32E+00	--	--	--
General Chemistry	Chlorine	4.41E+03	7.90E+02	9.14E+02	--	--	--
General Chemistry	Nitrate (as N)	2.29E+02	2.33E+01	3.21E+01	1.02E+02	1.15E+01	1.23E+01
General Chemistry	Nitrite (as N)	4.20E+00	5.26E-01	6.28E-01	2.10E-01	4.16E-02	4.29E-02
General Chemistry	Perchlorate	2.18E+01	3.94E+00	4.35E+00	--	--	--
General Chemistry	ortho-Phosphate	2.00E+00	1.00E+00	1.02E+00	--	--	--
General Chemistry	Sulfate	1.45E+03	2.32E+02	2.73E+02	4.13E+03	2.93E+02	3.44E+02
Metals	Cadmium	5.90E-01	2.06E-01	2.12E-01	ND	6.46E-02	ND
Metals	Lead	1.36E+02	2.51E+01	2.89E+01	3.51E+01	8.94E+00	9.24E+00
Metals	Sulfur	1.21E+03	3.69E+02	4.07E+02	--	--	--
Dioxins/Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	5.16E-05	5.95E-05	--	--	--
Dioxins/Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	1.15E-04	1.22E-04	--	--	--
OCPs	beta-BHC	5.90E-02	9.78E-03	1.12E-02	--	--	--
OCPs	2,4-DB	6.00E-02	NA	NA	--	--	--
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	6.72E-03	7.20E-03	--	--	--
OCPs	Dicamba	2.00E-03	NA	NA	--	--	--
OCPs	Endrin aldehyde	3.60E-03	4.46E-04	5.56E-04	--	--	--
OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	1.20E+03	NA	NA	--	--	--
SVOCs	bis(2-Ethylhexyl)phthalate	1.00E+00	1.16E-01	1.50E-01	--	--	--
SVOCs	Di-n-butylphthalate	5.00E-02	5.27E-02	5.65E-02	--	--	--
VOCs	Acetone	5.60E-01	4.68E-02	8.31E-02	--	--	--
TPH	Oil Range Organics	1.50E+02	9.36E+01	9.22E+01	--	--	--
Organic Halides	Organic Halides (total)	1.80E+02	NA	NA	--	--	--

Notes:

- (a) Neptune provided Ramboll with a copy of the R codes used for the UCL calculation on May 18, 2020.
 (b) The higher UCL value generated between the bias-corrected accelerated bootstrap method (BCa UCL) and the t-test method was selected, and is shaded.

2,4-DB = 4-(2,4-dichlorophenoxy)butyric acid
 95% UCL = 95% upper confidence level of the mean
 BCa = bias-corrected accelerated
 BHC = Hexachlorocyclohexane
 CASRN = Chemical Abstract Service Registration Number
 DDT = Dichlorodiphenyltrichloroethane
 DDx = Sum of all DDT metabolites
 DL = Detection limit
 mg/kg = milligram(s) per kilogram
 NA = Not applicable, sample count doesn't allow for UCL calculation

ND = Not detected
 OCPs = Organochlorine pesticides
 OU-2 = Operable Unit 2
 SVOCs = Semivolatile organic compounds
 TEQ = Toxic equivalency quotient
 TPH = Total petroleum hydrocarbons
 UCL = Upper confidence limit
 -- = Data not available

APPENDIX F

EXPOSURE PARAMETER DOCUMENTATION FOR RECEPTORS

- F-1 Food Web Uptake Approaches for Plants, Invertebrates, and Prey Mammals
- F-2 Exposure Parameters for Birds and Mammals Included in the OU-2 Refined SLERA

APPENDIX F-1
FOOD WEB UPTAKE APPROACHES FOR PLANTS, INVERTEBRATES,
AND PREY MAMMALS

Table F-1a	Food Web Uptake Approach for Soil to Terrestrial Plants
Table F-1b	Food Web Uptake Approach for Soil to Terrestrial Invertebrates
Table F-1c	Food Web Uptake Approach for Soil to Prey Mammals

**TABLE F-1a. Food Web Uptake Approach for Soil to Terrestrial Plants
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	CASRN	Kow	Log (Kow)	Log (Koc)	Soil to Terrestrial Plant		
						BCF	Basis	
General Chemistry	Perchlorate	14797-73-0	NA	NA	NA	$\ln(Cp)=0.5891 * \ln(Cs) + 2.410$	a	DW
Metals	Lead	7439-92-1	NA	NA	NA	$\ln(Cp)= 0.561 * \ln(Cs) - 1.328$	b	DW
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	TEQ-M(0.5L)	NA	NA	NA	5.60E-03	c1	DW
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	TEQ-A(0.5L)	NA	NA	NA	5.60E-03	c1	DW
OCPs	beta-BHC	319-85-7	6.46E+03	3.81E+00	3.33E+00	2.43E-01	c2	DW
OCPs	Calculated DDx (ND=0.5DL)	REH DDx	NA	NA	NA	$\ln(Cp)= 0.7524 * \ln(Cs) - 2.5119$	b	DW

Notes:

BCF = Bioconcentration factor

BHC = Hexachlorocyclohexane

Cp = Concentration in plant tissue (mg/kg dry weight)

Cs = Concentration in soil (mg/kg)

D/F = Dioxins and furans

DDD = Dichlorodiphenyldichloroethane

DDE = Dichlorodiphenyldichloroethylene

DDT = Dichlorodiphenyltrichloroethane

DDx = DDx includes DDT, DDD, and DDE isomers for the evaluation of potential risks related to the chemical mixture

DL = Detection limit

DW = Dry weight

Koc = Soil adsorption coefficient

Kow = Partition coefficient

log = Logarithm base 10

ln = Natural log

mg/kg = Milligram per kilogram

NA = Not applicable

ND = Non-detected concentrations

OCPs = Organophosphate pesticides

TEQ = Toxic equivalent quotient

- (a) Tsao A and Sample B. 2005. Literature-derived Bioaccumulation Models for Energetic Compounds in Plants and Soil Invertebrates. CH2M Hill Technical Memo prepared for Mark S. Johnson, US Army Center for Health Promotion and Preventive Medicine. Table 3.1-1. As a conservative measure, the average foliage uptake value from soil was used.
- (b) USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (OSWER Directive 9285.7-55) EcoSSL Guidance. Washington, D.C.: USEPA, Office of Solid Waste and Emergency Response. April.
- (c) USEPA Region 6. 1999. Screening level ecological risk assessment protocol for hazardous waste combustion facilities. Volume One. EPA530-D-99-001A. August.
- (d) USEPA. 1996. Soil Screening Guidance: Technical Background Document (EPA/540/R-95/128). Part 5: Chemical-Specific Parameters. July. Table 36 for Kows and Table 39 for Kocs. Geomean values used.
 - 1 Value for 2,3,7,8-TCDD used as a surrogate.
 - 2 The BCF was calculated as: $\log BCF = 1.588 - 0.578 \times \log Kow$ (Travis and Arms 1988 as cited in USEPA Region 6 USEPA Region 6 [1999], Table C-2).

**TABLE F-1b. Food Web Uptake Approach for Soil to Terrestrial Invertebrates
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Kow	Log (Kow)	Log (Koc)	Surface Soil to Terrestrial Invertebrate		
					BCF		Basis
General Chemistry	Perchlorate	NA	NA	NA	2.26	a	DW
Metals	Lead	NA	NA	NA	$\ln(Ci) = 0.807 * \ln(Cs) - 0.218$	b	DW
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	NA	NA	NA	0.195	c1, 2	WW
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	NA	NA	NA	0.195	c1, 2	WW
OCPs	beta-BHC	6.46E+03	3.81E+00	3.33E+00	1.83	b3	WW
OCPs	Calculated DDx (ND=0.5DL)	NA	NA	NA	11.2	b	DW

Notes:

BCF = Bioconcentration factor

BHC = Hexachlorocyclohexane

Ci = Concentration in invertebrate tissue (mg/kg dry weight)

Cs = Concentration in soil (mg/kg)

D/F = Dioxins and furans

DDD = Dichlorodiphenyldichloroethane

DDE = Dichlorodiphenyldichloroethylene

DDT = Dichlorodiphenyltrichloroethane

DDx = DDx includes DDT, DDD, and DDE isomers for the evaluation of potential risks related to the chemical mixture

DL = Detection limit

DW = Dry weight

Koc = Soil adsorption coefficient

Kow = Partition coefficient

log = Logarithm base 10

ln = Natural log

NA = Not applicable

ND = Non-detected concentrations

OCPs = Organophosphate pesticides

TEQ = Toxic equivalent quotient

WW = Wet weight

- (a) Tsao A and Sample B. 2005. Literature-derived Bioaccumulation Models for Energetic Compounds in Plants and Soil Invertebrates. CH2M Hill Technical Memo prepared for Mark S. Johnson, US Army Center for Health Promotion and Preventive Medicine. Table 3.2-1. Average earthworm uptake value from soil.
- (b) USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (OSWER Directive 9285.7-55) EcoSSL Guidance. Washington, D.C.: USEPA, Office of Solid Waste and Emergency Response. April.
- (c) Ramboll calculated uptake factor based on USEPA 2007. See text for more details regarding the calculation.
- (d) USEPA. 1996. Soil Screening Guidance: Technical Background Document (EPA/540/R-95/128). Part 5: Chemical-Specific Parameters. July. Table 36 for Kows and Table 39 for Kocs. Median values used.
- 1 Value for 2,3,7,8-TCDD used as a surrogate.
- 2 The site-specific uptake factor for dioxin and furan TEQs (as 2,3,7,8-TCDD) is 0.39 times the concentration in soil, for wet weight earthworms. Because earthworms would be expected to accumulate dioxins and furans from soil at a rate more readily than other invertebrates, such as crickets, grasshoppers, moths, and other invertebrates that are also in the food web, this value is reduced to 0.19 in calculating the total daily intake for a receptor to reflect that half of the uptake from earthworms is the equivalent of the overall diet which includes other lesser exposed soil invertebrates.
- 3 For organic compounds with no available BCFs, the BCFs were determined using the following equation: Concentration in worm = Concentration in soil x $(10^{(0.87 * \log Kow - 2)}) / (fOC \times Koc)$. The latter part of the equation is the BCF. This is from the USEPA 2007 EcoSSL guidance document, Section 3.2.2 and Table 5 of Attachment 4-1.

Approximate average fOC (based on OU-2 data): 0.005287 or 0.53%

**TABLE F-1c. Food Web Uptake Approach for Soil to Prey Mammals
Nevada Environmental Response Trust Site
Henderson, Nevada**

Group	Chemical	Surface Soil to Prey Mammal		
		BCF		Basis
General Chemistry	Perchlorate	4.7E-01	a	DW
Metals	Lead	$\ln(C_m) = 0.4422 * \ln(C_s) + 0.0761$	b	DW
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	7.41E-04	c1	WW
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	7.41E-04	c1	WW
OCPs	beta-BHC	$\ln(C_m) = 0.7254 * \ln(C_d) + 1.1788$	b2, 3	DW
OCPs	Calculated DDx (ND=0.5DL)	$4.83 * C_d$	b3	DW

Notes:

- BCF Bioconcentration factor
 BHC Hexachlorocyclohexane
 Cd Concentration in diet (assumed to be 100% earthworms and in mg/kg wet weight)
 Cm Concentration in small mammal tissue (mg/kg dry weight)
 Cs Concentration in soil (mg/kg)
 D/F Dioxins and furans
 DDE Dichlorodiphenyldichloroethylene
 DDD Dichlorodiphenyldichloroethane
 DDT Dichlorodiphenyltrichloroethane
- DDx DDx includes DDT, DDD, and DDE isomers for the evaluation of potential risks related to the chemical mixture
- DL Detection limit
 DW Dry weight
 Koc Soil adsorption coefficient
 Kow Partition coefficient
 ln Natural log
 log Logarithm
 NA Not applicable
 ND Non-detected concentrations
 OCPs Organophosphate pesticides
 TEQ Toxic equivalent quotient
 WW Wet weight
- (a) Smith, P. N., L. Yu, S.T. McMurry, and T.A. Anderson. 2004. Perchlorate in Water, Soil, Vegetation, and Rodents Collected from the Las Vegas Wash, Nevada, USA. Environmental Pollution, 132(1): 121–127.
- (b) USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (OSWER Directive 9285.7-55) EcoSSL Guidance. Washington, D.C.: USEPA, Office of Solid Waste and Emergency Response. April.
- (c) USEPA Region 6. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Volume One (EPA530-D-99-001A). August.
- 1 Value for 2,3,7,8-TCDD and least shrew used as a surrogate.
- 2 No value available. Value for DDT from used as a surrogate.
- 3 The site-specific uptake factor for organochlorine pesticides is based on the concentration of the pesticide in dry weight earthworms. Because earthworms would be expected to accumulate pesticides from soil at a rate more readily than other invertebrates, such as crickets, grasshoppers, moths, and other invertebrates that are also in the food web and more likely to be encountered at the site, the uptake into small mammals value is reduced by half in calculating the total daily intake for a receptor to reflect that half of the uptake from earthworms is the equivalent of the overall diet which includes other lesser exposed soil invertebrates.

APPENDIX F-2
EXPOSURE PARAMETERS FOR BIRDS AND MAMMALS INCLUDED IN
THE OU-2 REFINED SLERA

Table F-2a	Coopers Hawk Exposure Parameters
Table F-2b	Kit Fox Exposure Parameters
Table F-2c	Western Burrowing Owl Exposure Parameters
Table F-2d	American Robin Exposure Parameters
Table F-2e	Desert Shrew Exposure Parameters
Table F-2f	Fringed Myotis Exposure Parameters
Table F-2g	Raccoon Exposure Parameters
Table F-2h	Mourning Dove Exposure Parameters
Table F-2i	Great Basin Pocket Mouse Exposure Parameters

TABLE F-2a. Coopers Hawk Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Cooper's Hawk	Order: Accipitriformes Family: Accipitridae Species: <i>Accipiter cooperii</i>	
Body Weight (BW) (kg)	Weight of male birds can range from 220-410 grams and weight of females birds can range from 330-680 grams (Cornell University 2017).	Average of 0.315 kg (male) Average of 0.505 kg (female) Average of 0.410 kg (both)
Dietary Makeup	Cooper's hawk are reported to forage primarily on medium-sized birds (approximately 60-80%), with small mammals making up the remainder. However, Bielefeldt et al. (1992) suggest that the methods used in most dietary studies overestimate the proportion of birds in the diet and that small mammals may constitute the primary food. (ORNL 1997).	60-80% Birds 20-40% Small Mammals
Ingestion Rate for Food (IRf) (kg ww/d)	Craighead and Craighead (1969, as cited in ORNL 1997) estimated the average consumption of two females and a male during spring and summer to be 0.165 grams of wet weight food per gram of body weight per day. This converts to 0.0677 kg ww food per day using an average body weight of 410 grams.	0.0677
Ingestion Rate for Water (IRw) (L/day)	Based on the allometric equation for water intake for all birds: Water Intake (L/day) = 0.059 Wt ^{0.67} , where Wt is in kg (USEPA 1993).	0.03247
Ingestion Rate for Soil (IRs) (as % of diet)	Assume that soil consumption does not occur with predation of birds and mammals.	0%
Home Range (ha)	Reported home range size range from 400 to 1,800 ha during breeding season with a mean non-breeding range of 203 ha (18-531ha) (ORNL 1997)	203
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. Hawks are assumed to forage exclusively on the site.	AUF=1
Exposure Frequency (EF) (unitless)	Birds from the northern portion of the range are migratory, although some stay resident year-round even in Canada. Southern birds may be locally migratory or more or less resident, leaving high elevations for more protected low elevations during winter. Northern populations migratory (ORNL 1997). Cooper's hawks at the site are presumed to be year-round residents.	1

Notes:

AUF = Area use factor
 BW = Body weight
 EF = Exposure frequency
 g = Gram
 ha = Hectare
 IRf = Ingestion rate for food
 IRs = Ingestion rate for soil
 IRw = Ingestion rate for water
 kg = Kilogram
 L = Liter
 Wt = Weight

References:

Cornell University 2017: Cornell University. 2017. "Cooper's Hawk Identification." The Cornell Lab of Ornithology All About Birds. https://www.allaboutbirds.org/guide/coopers_hawk/id (Last Updated: 2017; Accessed: 09/04/2019).

ORNL 1997: Sample, B.E., M.S. Aplin, R.A. Efroymsen, G.W. Suter II, and C.J.E. Welsch. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife to Contaminants (ORNL/TM-13391). Oak Ridge National Laboratory, Oak Ridge, Tennessee. 155 pg.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2b. Kit Fox Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Kit Fox	Order: Carnivora Family: Canidae Species: <i>Vulpes macrotis</i>	
Body Weight (BW) (g)	The mean adult body weight for both males and females is 1.78 kg for kit foxes in Arizona (range 1.67 - 1.87 kg) (ORNL 1997).	1780 g
Dietary Makeup	Kit foxes are almost exclusively carnivorous, with primary prey being small mammals and rabbits (McGrew 1979, as cited in ORNL 1997).	100% Small Mammals
Ingestion Rate for Food (IRf) (kg ww/day)	Egoscue (1962, as cited in ORNL 1997) determined that captive kit foxes ate an average of 175 grams of fresh meat per day or 0.175 kg of wet food per day.	0.175
Ingestion Rate for Water (IRw) (L/day)	Kit foxes appear to obtain adequate moisture from their prey species (ORNL 1997).	0%
Ingestion Rate for Soil (IRs) (as % of diet)	Literature data on soil consumption for kit foxes could not be found; therefore, the value for red fox was used as a surrogate (ORNL 1997).	2.80%
Home Range (ha)	The overall average home range for kit foxes in Arizona was 1120 ± 94 ha (ORNL 1997).	1120
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. The home range of the kit fox is larger than the size of OU2; therefore, the species-specific AUF for the realistic scenario considered in the food web model was calculated to be 0.24 (rounded value) using the following equation: AUF (unitless) = OU-2 Site Size (268 hectares)/Species Home Range (1,120 hectares).	AUF = 1 (conservative scenario) AUF = 0.24 (realistic scenario)
Exposure Frequency	Kit foxes are non-migratory and are presumed to be year-round residents.	EF = 1

Notes:

AUF = Area use factor
 BW = Body weight
 EF = Exposure frequency
 g = Gram
 ha = Hectare
 IRf = Ingestion rate for food
 IRs = Ingestion rate for soil
 IRw = Ingestion rate for water
 kg = Kilogram
 L = Liter
 Wt = Weight

References:

ORNL 1997: Sample, B.E., M.S. Aplin, R.A. Efrogmson, G.W. Suter II, and C.J.E. Welsch. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife to Contaminants (ORNL/TM-13391). Oak Ridge National Laboratory, Oak Ridge, Tennessee. 155 pg.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2c. Western Burrowing Owl Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Burrowing Owl	Order: Strigiformes Family: Strigidae Species: <i>Athene cunicularia</i>	
Body Weight (BW) (kg)	The average body weight of burrowing owls in Colorado is 146.3 grams (males) and 156.1 grams (females) (ORNL 1997).	0.146 kg (male) 0.156 kg (female) 0.151 kg (both)
Dietary Makeup	Burrowing owls are opportunistic feeders, foraging on arthropods, small mammals, and small birds. Diets vary by season, according to availability of prey.	25% Small Mammals 75% Invertebrates
Ingestion Rate for Food (IRf) (kg ww/day)	Based on the allometric equation for non-passerine birds: food Intake (g/day) = 0.301 Wt ^{0.751} , where Wt is in grams (USEPA 1993), and converted to wet weight using 70% moisture content (USEPA 1993).	0.043
Ingestion Rate for Water (IRw) (L/day)	Based on the allometric equation for water intake for all birds. Water Intake (L/day) = 0.059 Wt ^{0.67} , where Wt is in kg. (USEPA 1993)	0.01663
Ingestion Rate for Soil (IRs) (as % of diet)	Sand, dirt, and rocks accounted for 0.12 to 15% of the volume of pellets of burrowing owls from California (ORNL 1997).	5% of diet
Home Range (ha)	Although the mean home range size of owls in Saskatchewan was 241 ha (range = 14-481 ha; Haug and Oliphant 1990 as cited in ORNL 1997), 95% of all movement occurred within 600 m of nest burrows.. Assumes circular home range with radius of 600m.	113
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. Owls are assumed to forage exclusively on the site.	AUF=1
Exposure Frequency	Generally year-round residents.	EF = 1

Notes:

AUF = Area use factor
 BW = Body weight
 EF = Exposure frequency
 g = Gram
 ha = Hectare
 IRf = Ingestion rate for food
 IRs = Ingestion rate for soil
 IRw = Ingestion rate for water
 kg = Kilogram
 L = Liter
 Wt = Weight

References:

ORNL 1997: Sample, B.E., M.S. Aplin, R.A. Efroymson, G.W. Suter II, and C.J.E. Welsch. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife to Contaminants (ORNL/TM-13391). Oak Ridge National Laboratory, Oak Ridge, Tennessee. 155 pg.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

TABLE F-2d. American Robin Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
American Robin	Order: Passeriformes Family: Turdidae Species: <i>Turdus migratorius</i>	
Body Weight (BW) (kg)	Mean adult body weights range from 77 to 86 grams. The average mean adult body weight is approximately 81 grams (USEPA 1993).	0.081
Dietary Makeup	Robins forage by hopping along the ground in search of ground-dwelling invertebrates and by searching for fruit and foliage-dwelling insects in shrubs and low tree branches. In the months preceding and during the breeding season, robins feed mainly on invertebrates and on some fruits; during the remainder of the year, their diet consists primarily of fruits (USEPA 1993).	40 to 90% Invertebrates 10 to 60% Plants
Ingestion Rate for Food (IRf) (kg ww/day)	The average of two food ingestion rates (0.89 g/g-day and 1.52 g/g-day) for adults and juvenile robins was used (USEPA 1993). This was converted to 0.098 kg ww food/day using an average body weight of 0.081 kilograms.	0.098
Ingestion Rate for Water (IRw) (L/day)	Based on the allometric equation for water intake for all birds. Water Intake (L/day) = 0.059 Wt ^{0.67} , where Wt is in kilograms (USEPA 1993).	0.011
Ingestion Rate for Soil (IRs) (as % of diet)	Information on soil ingestion in American robins could not be found. According to US Army (2004), both robins and woodcocks consume earthworms; however, earthworms comprise >60 percent and up to 99 percent of the American woodcock diet compared to <20 percent of the American robin diet (Howell, 1942). Therefore, the soil ingestion rate of 10.4% of the diet reported for American woodcocks is likely to be an extreme upperbound for the robin. If the soil ingestion rate is proportioned to the percent of earthworms in the diet, then soil would only make up 2.1 percent of the robin diet (USACHPPM 2004).	2%
Home Range (ha)	Mean home range sizes range for male and female adult robins are 0.15 to 0.81 ha. The average is approximately 0.30 ha (USEPA 1993).	0.48
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. Robins are assumed to forage exclusively on the site.	AUF=1
Exposure Frequency (EF) (unitless)	Most robins nesting in the northern United States and Canada winter in the Gulf Coast States and the Carolinas. Most northern robins leave their breeding grounds from September to November and return between February and April. Robins at the site are presumed to be year-round residents.	EF = 1

Notes:

AUF = Area use factor
 BW = Body weight
 EF = Exposure frequency
 g = Gram
 ha = Hectare
 IRf = Ingestion rate for food
 IRs = Ingestion rate for soil
 IRw = Ingestion rate for water
 kg = Kilogram
 L = Liter
 Wt = Weight

References:

USACHPPM 2004: USACHPPM. 2004. Development of Terrestrial Exposure and Bioaccumulation Information for the Army Risk Assessment Modeling System (ARAMS). U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) Contract Number DAAD050-00-P-8365, Aberdeen Proving Ground, Maryland, 2004.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2e. Desert Shrew Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Desert Shrew	Order: Insectivora Family: Soricidae Species: <i>Nitiosorex crawfordi</i>	
Body Weight (BW) (kg)	The average weight is 4 g with a range from 3.5 to 4.5 g for adults (USACHPPM 2004).	0.0040
Dietary Makeup	Desert shrews are carnivorous, primarily insectivorous, but are nonselective in their diets. Common prey items include ground dwelling invertebrates such as crickets, cockroaches, grasshoppers, earwigs, and beetles as well as meal worms and cut worms. Occasionally they will eat centipedes and carrion such as dead birds, mammals, and reptiles, but will not eat live rodents (Armstrong and Jones, 1972; as cited in USACHPPM 2004).	95% Invertebrates 5% Small Mammals
Ingestion Rate for Food (IRf) (kg ww/day)	Dixon (1924; as cited in USACHPPM 2004) reported that a captive desert shrew consumed 2.3 g of food per day or 0.0023 kg of wet food per day. Desert shrews generally consume 75 percent or more of their body weight each day, and may consume food exceeding their own weight in a 24-hour period (USACHPPM 2004).	0.0023
Ingestion Rate for Water (IRw) (L/day)	Desert Shrews have extremely efficient kidneys relative to other shrews and a permanent source of water does not appear to be required. Where water is not available, the desert shrew appears to be able to obtain sufficient water for survival from its' food sources . If water is available, however, desert shrews will readily drink and are often found in the vicinity of a water source (USACHPPM 2004). Based on the allometric equation for all mammals (USEPA 1993): Water Intake L/day = 0.099 Wt ^{0.90} , weight is in kilograms	0.0007
Ingestion Rate for Soil (IRs) (as % of diet)	Talmage and Walton (1993; as cited in USACHPPM 2004) reported a soil ingestion rate of 13 percent of the diet for short-tailed shrews and it is likely that desert shrews have a similar rate.	13%
Home Range (ha)	No information readily available regarding the home range of desert shrews in the wild. The home range of desert shrew is estimated to be between 0.08-0.72 hectares using the following equations (USACHPPM 2004), an average body weight of 4 grams, and converted to hectares (if needed): HR = 6.76 Wt ^{0.63} , weight in kilograms (general equation) HR = 12.6 Wt ^{0.71} , weight in kilograms (equation for hunters, which includes granivores, frugivores, insectivores, and carnivores) HR = 0.11 Wt ^{1.36} , weight in grams (equation for carnivores) The average of the three calculated home ranges was used.	0.30
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. Shrews are assumed to forage exclusively on the site.	AUF=1
Exposure Frequency	Shrews do not migrate; therefore, a value of 1 is used to represent the annual presence of indigenous populations (USEPA 1993).	EF=1

Notes:

AUF = Area use factor IRs = Ingestion rate for soil
 BW = Body weight IRw = Ingestion rate for water
 EF = Exposure frequency kg = Kilogram
 g = Gram L = Liter
 ha = Hectare Wt = Weight
 IRf = Ingestion rate for food

References:

USACHPPM 2004: USACHPPM. 2004. Development of Terrestrial Exposure and Bioaccumulation Informaion for the Army Risk Assessment Modeling System (ARAMS). U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) Contract Number DAAD050-00-P-8365, Aberdeen Proving Ground, Maryland, 2004.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2f. Fringed Myotis Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Fringed Myotis (Mouse eared bat)	Order: Chiroptera Family: Vespertilionidae Species: <i>Myotis thysanodes</i>	
Body Weight (BW) (kg)	<i>Myotis thysanodes</i> is one of the larger <i>Myotis</i> species, with an adult weight of 5 to 9 grams (ADW 2002).	0.007
Dietary Makeup	Fringed myotis feed primarily on beetles and other insects such as moths, harvestman, crickets, flies, and spiders (CWHR 2016; ADW 2002).	100% Invertebrates
Ingestion Rate for Food (IRf) (kg ww/day)	Food ingestion rate for fringed myotis was calculated based on the allometric equation for all mammals (USEPA 1993): Food Intake (kg/day) = $0.235 Wt^{0.822}$, weight in grams It was converted to kg ww food/day using an approximate average of 75% moisture content in prey items (USEPA 1993).	0.0047
Ingestion Rate for Water (IRw) (L/day)	The ingestion rate for water is based on the allometric equation for all mammals (USEPA 1993): Water Intake (L/day) = $0.099 Wt^{0.90}$, weight in kilograms	0.0011
Ingestion Rate for Soil (IRs) (as % of diet)	No published data were found concerning soil ingestion by fringed myotis; however, as an aerial insectivore, soil ingestion is assumed to be negligible.	0%
Home Range (hectares)	There is no information readily available on the home range of the fringed myotis; therefore, the home range of the spotted bat was used as a surrogate. In a study by Chamber et al. (2011) in Arizona, spotted bats had a home range of 297 km ² , or 29,700 hectares.	29,700
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. The home range of the fringed myotis is larger than the size of OU-2; therefore, the species-specific AUF for the realistic scenario considered in the food web model was calculated to be 0.009 (rounded value) using the following equation: AUF (unitless) = OU-2 Site Size (268 hectares) / Species Home Range (29,700 hectares).	AUF = 1 (conservative scenario) AUF = 0.009 (realistic scenario)
Exposure Frequency	The species is migratory, making relatively short, local movements to suitable habitat (CWHR 2016).	EF=1

Notes:

AUF = Area use factor IRs = Ingestion rate for soil
 BW = Body weight IRw = Ingestion rate for water
 EF = Exposure frequency kg = Kilogram
 g = Gram L = Liter
 ha = Hectare Wt = Weight
 IRf = Ingestion rate for food

References:

ADW 2002: Vingiello, S. 2002. "Myotis thysanodes" (On-line), Animal Diversity Web. Accessed September 06, 2019 at https://animaldiversity.org/accounts/Myotis_thysanodes/

Chambers et al. (2011): Chambers, C.L., M.J. Herder, K. Yasuda, D.G. Mikesic, S.M. Dewhurst, W.M. Masters, and D. Vleck. 2011. Roosts and home ranges of spotted bats (*Euderma maculatum*) in northern Arizona. *Canadian Journal of Zoology* 89(12): 1256-1267.

CWHR 2016: Harris J. 2016. California Wildlife Habitat Relationship System, California Department of Fish and Wildlife, California Interagency Wildlife Task Group. <https://www.wildlife.ca.gov/Data/CWHR/Life-History-and-Range> (Last updated 2016; Accessed 9/6/2019).

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2g. Raccoon Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Raccoon	Order: Carnivora Family: Procyonidae Species: <i>Procyon lotor</i>	
Body Weight (BW) (kg)	Mean adult body weight ranges from 3.67 to 7.6 kilograms (kg) (USEPA 1993). The average mean body weights is 5.6 kg.	5.6
Dietary Makeup	Raccoons are omnivores and opportunistic eaters. They feed primarily on fleshy fruits, nuts, acorns, and corn but also eat grains, insects, frogs crayfish, eggs, and virtually any animal and vegetable matter. The proportion of different foods in their diet depends on location and season, although plants are usually a more important component of the diet (USEPA 1993).	40% Invertebrates 60% Plants
Ingestion Rate for Food (IRf) (kg ww/day)	Food ingestion rate was calculated using the allometric equation for all mammals (USEPA 1993): Food Intake (g/day) = 0.235 Wt ^{0.822} , weight in grams.	1.14
Ingestion Rate for Water (IRw) (L/day)	Water ingestion rate was calculated using the allometric equation for all mammals (USEPA 1993): Water Intake L/day = 0.099 Wt ^{0.90} , weight in kilograms.	0.47
Ingestion Rate for Soil (IRs) (as % of diet)	The estimated percent soil in diet (in dry weight) for raccoons is 9.4%.	9.40%
Home Range (ha)	Mean home range sizes range from 39 to 2,560 ha (USEPA 1993). Average of mean home range sizes is 630 ha.	630
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. The home range of the raccoon (640 ha) is larger than the size of OU-2 (268 ha); therefore, the species-specific AUF considered in the FWM is calculated to be 0.43 (rounded).	AUF = 1 (conservative scenario) AUF = 0.43 (realistic scenario)
Exposure Frequency	Raccoons are year-round residents at the site.	EF=1

Notes:

AUF = Area use factor

BW = Body weight

EF = Exposure frequency

g = Gram

ha = Hectare

IRf = Ingestion rate for food

IRs = Ingestion rate for soil

IRw = Ingestion rate for water

kg = Kilogram

L = Liter

Wt = Weight

References:

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2h. Mourning Dove Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Mourning Dove	Order: Columbiformes Family: Columbidae Species: <i>Zenaida macroura</i>	
Body Weight (BW) (kg)	The average mean range of mourning doves ranged from 99.3-114.6 grams for those in New Mexico (USACHPPM 2004). The average of 0.107 kilograms was used.	0.107
Dietary Makeup	Diet consists mostly of seeds although incidental ingestion of animal matter, mainly snails, and green forage may occur (USACHPPM 2004).	100% Plants
Ingestion Rate for Food (IRf) (kg ww/day)	A range for the food consumption rate of 7 to 17 grams wet food per day (or 0.007 to 0.017 kilogram wet food per day) was estimated for the mourning dove. In general, daily food intake equals about 16 percent of the body mass though it fluctuates during different seasons (USACHPPM 2004). The average (0.012 kg ww/day) of the two food ingestion values was used.	0.012
Ingestion Rate for Water (IRw) (L/day)	Water ingestion rates were calculated using the allometric equation for water intake for all birds (USEPA 1993): Water Intake (L/day) = 0.059 Wt ^{0.67} , where Wt is in kilograms.	0.013
Ingestion Rate for Soil (IRs) (as % of diet)	No information on soil ingestion was found in the literature. Beyer et al. (1994, as cited in USACHPPM 2004) reported soil ingestion of 9.3 percent of diet for wild turkeys. Because mourning doves also forage on the ground, it is assumed that mourning doves would have a comparable soil ingestion to that of wild turkeys. However, it should be noted that 9.3 percent is likely an upperbound value and therefore, its use would be very conservative (USACHPPM 2004).	9.3%
Home Range (ha)	In Missouri, adult mourning doves had feeding and resting areas located considerable distances from nest sites, with males ranging 1 - 8 km from the nest daily. Females sometimes seen as far as 5 km from nest. In Idaho, maximum distances traveled from feeding and loafing sites to nests averaged 4 km (USACHPPM 2004). Home range in hectares was calculated using a radius of 4.467 km (average kilometer of home ranges), assuming a circular home range, and converted to hectares.	6,265
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. The home range of the mourning dove is larger than the size of OU-2; therefore, the species-specific AUF for the realistic scenario considered in the food web model was calculated to be 0.043 (rounded value) using the following equation: AUF (unitless) = OU-2 Site Size (268 hectares) / Species Home Range (6,265 hectares).	AUF = 1 (conservative scenario) AUF = 0.043 (realistic scenario)
Exposure Frequency	Specific habitats used during migration not well studied but do not appear to differ markedly from those used at other times of year. Habitat quality is determined primarily by food availability and roosting and loafing cover. Assumed to be non-migratory.	EF=1

Notes:

AUF = Area use factor
BW = Body weight
EF = Exposure frequency
g = Gram
ha = Hectare
IRf = Ingestion rate for food
IRs = Ingestion rate for soil
IRw = Ingestion rate for water
kg = Kilogram
L = Liter
Wt = Weight

References:

USACHPPM 2004: USACHPPM. 2004. Development of Terrestrial Exposure and Bioaccumulation Information for the Army Risk Assessment Modeling System (ARAMS). U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) Contract Number DAAD050-00-P-8365, Aberdeen Proving Ground, Maryland, 2004.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

**TABLE F-2i. Great Basin Pocket Mouse Exposure Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Exposure Parameter	Description	Values Selected for Exposure and Risk Calculations
Great Basin Pocket Mouse	Order: Rodentia Family: Heteromyidae Species: <i>Perognathus parvus</i>	
Body Weight (BW) (kg)	The mean adult body weight in Nevada range is 25.4 g (males) and 20.5 g (females) (ORNL 1997). The mean of 22.95 grams was used.	0.02295
Dietary Makeup	The diet of pocket mice consist primarily of seeds, although insects may be consumed in spring before seeds become available (ORNL 1997).	10% Invertebrates 90% Plant Material
Ingestion Rate for Food (IRf) (kg ww/day)	Food ingestion rates were calculated using the allometric equation for rodents (USEPA 1993): Food Intake g/day = $0.621 Wt^{0.564}$, with weight in grams.	0.004
Ingestion Rate for Water (IRw) (L/day)	Pocket mice generally do not require water other than that contained in their food (ORNL 1997).	0
Ingestion Rate for Soil (IRs) (as % of diet)	Specific soil ingestion data was not readily available for the Great Basin pocket mouse. Soil ingestion by burrowing rodents is typically < 2% to 7.7% (ORNL 1997). The average value of this was used for the pocket mouse.	4.85%
Home Range (ha)	Home range size in New Mexico ranged from 0.44 to 2.24 ha (ORNL 1997). The average home range for the pocket mouse was used.	1.09
Area Use Factor (AUF) (unitless)	The AUF is the ratio of the site area to the home range, not to exceed a maximum value of 1. The mice are assumed to forage exclusively on the site.	AUF=1
Exposure Frequency	Pocket mice are year-round residents at the site.	EF=1

Notes:

AUF = Area use factor
 BW = Body weight
 EF = Exposure frequency
 g = Gram
 ha = Hectare
 IRf = Ingestion rate for food
 IRs = Ingestion rate for soil
 IRw = Ingestion rate for water
 kg = Kilogram
 L = Liter
 Wt = Weight

References:

ORNL 1997: Sample, B.E., M.S. Aplin, R.A. Efroymson, G.W. Suter II, and C.J.E. Welsch. 1997. Methods and Tools for Estimation of the Exposure of Terrestrial Wildlife to Contaminants (ORNL/TM-13391). Oak Ridge National Laboratory, Oak Ridge, Tennessee. 155 pg.

USEPA 1993: USEPA. 1993. Wildlife Exposure Factors Handbook - Volume 1 of II (EPA/600/R-93/187). Washington, D.C.: Office of Research and Development, USEPA. December.

APPENDIX G

**TOTAL DAILY DOSE DOCUMENTATION FOR THE OU-2 REFINED
SLERA FOOD WEB MODEL**

Table G-1 Potential Daily Dose and Hazard Quotients for Coopers Hawk

Table G-2 Potential Daily Dose and Hazard Quotients for Kit Fox

Table G-3 Potential Daily Dose and Hazard Quotients for Western Burrowing Owl

Table G-4 Potential Daily Dose and Hazard Quotients for American Robin

Table G-5 Potential Daily Dose and Hazard Quotients for Desert Shrew

Table G-6 Potential Daily Dose and Hazard Quotients for Fringed Myotis

Table G-7 Potential Daily Dose and Hazard Quotients for Raccoon

Table G-8 Potential Daily Dose and Hazard Quotients for Mourning Dove

Table G-9 Potential Daily Dose and Hazard Quotients for Great Basin Pocket Mouse

TABLE G-1. Potential Daily Dose and Hazard Quotients for Coopers Hawk: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

MAXIMUM CONCENTRATIONS																			
Group	Chemical	Media Concentrations				Potential Daily Dose										TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.41E-01	100	5.41E-01	1.30E+01	2.60E+01	0.04	0.02	
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.00E-01	100	5.00E-01	1.63E+00	3.26E+00	0.3	0.2	
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.66E-08	100	2.66E-08	NA	NA	NA	NA	
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	0.00E+00	0	0.00E+00	0	0.00E+00	0	5.59E-08	100	5.59E-08	1.40E-05	1.40E-04	0.004	0.0004	
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.79E-02	100	7.79E-02	5.60E-01	2.25E+00	0.1	0.03	
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	0.00E+00	0	0.00E+00	0	0.00E+00	0	4.06E-02	100	4.06E-02	2.27E-01	2.27E+00	0.2	0.02	

95% UCL CONCENTRATIONS																			
Group	Chemical	Media Concentrations				Potential Daily Dose										TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.08E-01	100	1.08E-01	1.30E+01	2.60E+01	0.008	0.004	
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.52E-01	100	2.52E-01	1.63E+00	3.26E+00	0.2	0.08	
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	0.00E+00	0	0.00E+00	0	0.00E+00	0	7.28E-09	100	7.28E-09	NA	NA	NA	NA	
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.49E-08	100	1.49E-08	1.40E-05	1.40E-04	0.001	0.0001	
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	0.00E+00	0	0.00E+00	0	0.00E+00	0	2.34E-02	100	2.34E-02	5.60E-01	2.25E+00	0.04	0.01	
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.03E-02	100	1.03E-02	2.27E-01	2.27E+00	0.05	0.005	

95% UCL BACKGROUND CONCENTRATIONS																			
Group	Chemical	Media Concentrations				Potential Daily Dose										TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.30E+01	2.60E+01	No BKG	No BKG	
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	0.00E+00	0	0.00E+00	0	0.00E+00	0	1.52E-01	100	1.52E-01	1.63E+00	3.26E+00	0.09	0.05	
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG	
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.40E-05	1.40E-04	No BKG	No BKG	
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	5.60E-01	2.25E+00	No BKG	No BKG	
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	2.27E-01	2.27E+00	No BKG	No BKG	

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDx = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

**TABLE G-2. Potential Daily Dose and Hazard Quotients for Kit Fox: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

MAXIMUM CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose						TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.24)				
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	1.80E-02	5.294687	0.00E+00	0	0.00E+00	0	3.22E-01	94.71	3.40E-01	6.40E+00	3.20E+01	0.05	0.01	0.01	0.003
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	1.12E-01	27.39029	0.00E+00	0	0.00E+00	0	2.98E-01	72.61	4.10E-01	4.70E+00	8.90E+00	0.09	0.05	0.02	0.01
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	1.80E-07	91.90112	0.00E+00	0	0.00E+00	0	1.58E-08	8.10	1.95E-07	8.40E-06	3.10E-05	0.02	0.006	0.006	0.002
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	3.78E-07	91.90112	0.00E+00	0	0.00E+00	0	3.33E-08	8.10	4.11E-07	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	4.88E-05	0.104951	0.00E+00	0	0.00E+00	0	4.64E-02	99.90	4.65E-02	4.00E-01	2.00E+00	0.1	0.02	0.03	0.006
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	2.35E-05	0.097053	0.00E+00	0	0.00E+00	0	2.42E-02	99.90	2.42E-02	1.47E-01	7.35E-01	0.2	0.03	0.04	0.008

95% UCL CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose						TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.24)				
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	3.59E-03	5.294687	0.00E+00	0	0.00E+00	0	6.42E-02	94.71	6.78E-02	6.40E+00	3.20E+01	0.01	0.002	0.003	0.0005
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	2.39E-02	13.72801	0.00E+00	0	0.00E+00	0	1.50E-01	86.27	1.74E-01	4.70E+00	8.90E+00	0.04	0.02	0.009	0.005
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	4.92E-08	91.90112	0.00E+00	0	0.00E+00	0	4.34E-09	8.10	5.36E-08	8.40E-06	3.10E-05	0.006	0.002	0.002	0.0004
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	1.01E-07	91.90112	0.00E+00	0	0.00E+00	0	8.90E-09	8.10	1.10E-07	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	9.29E-06	0.066592	0.00E+00	0	0.00E+00	0	1.39E-02	99.93	1.40E-02	4.00E-01	2.00E+00	0.03	0.007	0.008	0.002
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	5.95E-06	0.097053	0.00E+00	0	0.00E+00	0	6.12E-03	99.90	6.13E-03	1.47E-01	7.35E-01	0.04	0.008	0.01	0.002

95% UCL BACKGROUND CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose						TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.24)				
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	6.40E+00	3.20E+01	No BKG	No BKG	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	7.64E-03	7.8	0.00E+00	0	0.00E+00	0	9.07E-02	92.24	9.84E-02	4.70E+00	8.90E+00	0.02	0.01	0.005	0.003
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	8.40E-06	3.10E-05	No BKG	No BKG	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	4.00E-01	2.00E+00	No BKG	No BKG	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.47E-01	7.35E-01	No BKG	No BKG	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean

% = Percent

AUF = Area use factor

BHC = Hexachlorocyclohexane

BKG = Background

DL = Detection limit

DDx = Sum of all DDT metabolites

HQ = Hazard quotient

Inverts = Invertebrates

LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram

mg/kg ww = Milligram per kilogram of wet weight

mg/kg-bw d = Milligrams per kilogram bodyweight per day

NC = No criterion

ND = Nondetects

NOAEL = No observed adverse effects level

OCPs = Organophosphate pesticides

TEQ = Toxicity equivalent quotient

TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

TABLE G-3. Potential Daily Dose and Hazard Quotients for Western Borrowing Owl: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

MAXIMUM CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	9.41E-02	4.64	0.00E+00	0	1.70E+00	83.75	2.36E-01	11.61	2.03E+00	1.30E+01	2.60E+01	0.2	0.08
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	5.87E-01	25.90	0.00E+00	0	1.46E+00	64.49	2.18E-01	9.61	2.27E+00	1.63E+00	3.26E+00	1	0.7
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	9.38E-07	9.30	0.00E+00	0	9.13E-06	90.59	1.16E-08	0.11	1.01E-05	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	1.97E-06	9.30	0.00E+00	0	1.92E-05	90.59	2.43E-08	0.11	2.12E-05	1.40E-05	1.40E-04	2	0.2
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	2.55E-04	0.44	0.00E+00	0	2.32E-02	40.45	3.39E-02	59.10	5.74E-02	5.60E-01	2.25E+00	0.1	0.03
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	1.23E-04	0.43	0.00E+00	0	1.10E-02	38.15	1.77E-02	61.42	2.88E-02	2.27E-01	2.27E+00	0.1	0.01

95% UCL CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	1.87E-02	4.64	0.00E+00	0	3.39E-01	83.75	4.69E-02	11.61	4.04E-01	1.30E+01	2.60E+01	0.03	0.02
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	1.25E-01	19.10	0.00E+00	0	4.19E-01	64.10	1.10E-01	16.80	6.54E-01	1.63E+00	3.26E+00	0.4	0.2
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	2.57E-07	9.30	0.00E+00	0	2.50E-06	90.59	3.17E-09	0.11	2.76E-06	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	5.27E-07	9.30	0.00E+00	0	5.14E-06	90.59	6.51E-09	0.11	5.67E-06	1.40E-05	1.40E-04	0.4	0.04
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	4.85E-05	0.33	0.00E+00	0	4.42E-03	30.17	1.02E-02	69.50	1.47E-02	5.60E-01	2.25E+00	0.03	0.007
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	3.11E-05	0.43	0.00E+00	0	2.78E-03	38.15	4.47E-03	61.42	7.29E-03	2.27E-01	2.27E+00	0.03	0.003

95% UCL BACKGROUND CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.30E+01	2.60E+01	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	3.99E-02	14.60	0.00E+00	0	1.67E-01	61.10	6.63E-02	24.29	2.73E-01	1.63E+00	3.26E+00	0.2	0.08
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.40E-05	1.40E-04	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	5.60E-01	2.25E+00	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	2.27E-01	2.27E+00	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDx = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

**TABLE G-4. Potential Daily Dose and Hazard Quotients for American Robin: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

MAXIMUM CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose									TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	1.31E-01	1.19	6.18E+00	55.88	4.75E+00	42.93	0.00E+00	0	1.11E+01	1.30E+01	2.60E+01	0.9	0.4
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	8.19E-01	15.51	3.77E-01	7.14	4.08E+00	77.35	0.00E+00	0	5.28E+00	1.63E+00	3.26E+00	3	2
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	1.31E-06	4.86	1.10E-07	0.41	2.55E-05	94.74	0.00E+00	0	2.69E-05	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	2.75E-06	4.86	2.31E-07	0.41	5.37E-05	94.74	0.00E+00	0	5.67E-05	1.40E-05	1.40E-04	4	0.4
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	3.55E-04	0.53	1.30E-03	1.95	6.49E-02	97.52	0.00E+00	0	6.66E-02	5.60E-01	2.25E+00	0.1	0.03
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	1.71E-04	0.55	5.03E-04	1.60	3.07E-02	97.85	0.00E+00	0	3.14E-02	2.27E-01	2.27E+00	0.1	0.01

95% UCL CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose									TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	2.62E-02	0.78	2.39E+00	71.08	9.47E-01	28.14	0.00E+00	0	3.36E+00	1.30E+01	2.60E+01	0.3	0.1
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	1.74E-01	11.59	1.58E-01	10.52	1.17E+00	77.90	0.00E+00	0	1.50E+00	1.63E+00	3.26E+00	0.9	0.5
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	3.59E-07	4.86	3.01E-08	0.41	7.00E-06	94.74	0.00E+00	0	7.38E-06	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	7.36E-07	4.86	6.18E-08	0.41	1.44E-05	94.74	0.00E+00	0	1.52E-05	1.40E-05	1.40E-04	1	0.1
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	6.77E-05	0.53	2.47E-04	1.95	1.24E-02	97.52	0.00E+00	0	1.27E-02	5.60E-01	2.25E+00	0.02	0.006
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	4.33E-05	0.54	1.79E-04	2.24	7.77E-03	97.22	0.00E+00	0	7.99E-03	2.27E-01	2.27E+00	0.04	0.004

95% UCL BACKGROUND CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose									TRV		HQ (AUF = 1) (d)	
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.30E+01	2.60E+01	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	5.56E-02	9.19	8.34E-02	13.77	4.66E-01	77.03	0.00E+00	0	6.05E-01	1.63E+00	3.26E+00	0.4	0.2
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.40E-05	1.40E-04	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	5.60E-01	2.25E+00	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	2.27E-01	2.27E+00	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDx = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

**TABLE G-5. Potential Daily Dose and Hazard Quotients for Desert Shrew: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

MAXIMUM CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	4.89E-01	9.60	8.85E-01	17.372	3.63E+00	71.17	9.43E-02	1.85	5.09E+00	6.40E+00	3.20E+01	0.8	0.2
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	3.05E+00	48.36	5.40E-02	0.8547	3.12E+00	49.40	8.72E-02	1.38	6.31E+00	4.70E+00	8.90E+00	1	0.7
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	4.88E-06	20.00	1.57E-08	0.0645	1.95E-05	79.92	4.63E-09	0.02	2.44E-05	8.40E-06	3.10E-05	3	0.8
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	1.03E-05	20.00	3.31E-08	0.0645	4.10E-05	79.92	9.74E-09	0.02	5.13E-05	NA	NA	NA	NA
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	1.32E-03	2.05	1.86E-04	0.2871	4.96E-02	76.66	1.36E-02	21.00	6.46E-02	4.00E-01	2.00E+00	0.2	0.03
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	6.39E-04	2.04	7.21E-05	0.2307	2.34E-02	75.06	7.08E-03	22.66	3.12E-02	1.47E-01	7.35E-01	0.2	0.04

95% UCL CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	9.75E-02	8.26	3.42E-01	28.972	7.23E-01	61.18	1.88E-02	1.59	1.18E+00	6.40E+00	3.20E+01	0.2	0.04
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	6.50E-01	40.33	2.26E-02	1.4059	8.95E-01	55.54	4.40E-02	2.73	1.61E+00	4.70E+00	8.90E+00	0.3	0.2
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	1.34E-06	20.00	4.31E-09	0.0645	5.34E-06	79.92	1.27E-09	0.02	6.68E-06	8.40E-06	3.10E-05	0.8	0.2
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	2.74E-06	20.00	8.85E-09	0.0645	1.10E-05	79.92	2.60E-09	0.02	1.37E-05	NA	NA	NA	NA
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	2.52E-04	1.83	3.54E-05	0.2561	9.44E-03	68.38	4.08E-03	29.53	1.38E-02	4.00E-01	2.00E+00	0.03	0.007
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	1.62E-04	2.04	2.56E-05	0.3239	5.93E-03	74.99	1.79E-03	22.64	7.91E-03	1.47E-01	7.35E-01	0.05	0.01

95% UCL BACKGROUND CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	6.40E+00	3.20E+01	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	2.07E-01	34.46	1.19E-02	1.9831	3.56E-01	59.15	2.65E-02	4.41	6.02E-01	4.70E+00	8.90E+00	0.1	0.07
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	8.40E-06	3.10E-05	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	4.00E-01	2.00E+00	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.47E-01	7.35E-01	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDx = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

TABLE G-6. Potential Daily Dose and Hazard Quotients for Fringed Myotis: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

MAXIMUM CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.009)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	0.00E+00	0	1.36E+00	24.554	4.19E+00	75.446	0.00E+00	0	5.56E+00	6.40E+00	3.20E+01	0.9	0.2	0.008	0.002
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	0.00E+00	0	8.32E-02	2.2547	3.61E+00	97.745	0.00E+00	0	3.69E+00	4.70E+00	8.90E+00	0.8	0.4	0.007	0.004
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	0.00E+00	0	2.43E-08	0.1076	2.25E-05	99.892	0.00E+00	0	2.26E-05	8.40E-06	3.10E-05	3	0.7	0.02	0.007
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	0.00E+00	0	5.10E-08	0.1076	4.74E-05	99.892	0.00E+00	0	4.74E-05	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	0.00E+00	0	2.86E-04	0.4968	5.73E-02	99.503	0.00E+00	0	5.76E-02	4.00E-01	2.00E+00	0.1	0.03	0.001	0.0003
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	0.00E+00	0	1.11E-04	0.4081	2.71E-02	99.592	0.00E+00	0	2.72E-02	1.47E-01	7.35E-01	0.2	0.04	0.002	0.0003

95% UCL CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.009)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	0.00E+00	0	5.28E-01	38.703	8.36E-01	61.297	0.00E+00	0	1.36E+00	6.40E+00	3.20E+01	0.2	0.04	0.002	0.0004
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	0.00E+00	0	3.49E-02	3.2651	1.03E+00	96.735	0.00E+00	0	1.07E+00	4.70E+00	8.90E+00	0.2	0.1	0.002	0.001
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	0.00E+00	0	6.65E-09	0.1076	6.17E-06	99.892	0.00E+00	0	6.18E-06	8.40E-06	3.10E-05	0.7	0.2	0.007	0.002
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	0.00E+00	0	1.36E-08	0.1076	1.27E-05	99.892	0.00E+00	0	1.27E-05	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	0.00E+00	0	5.45E-05	0.4968	1.09E-02	99.503	0.00E+00	0	1.10E-02	4.00E-01	2.00E+00	0.03	0.005	0.0002	0.00005
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	0.00E+00	0	3.95E-05	0.5726	6.86E-03	99.427	0.00E+00	0	6.90E-03	1.47E-01	7.35E-01	0.05	0.009	0.0004	0.00008

95% UCL BACKGROUND CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.009)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	6.40E+00	3.20E+01	No BKG	No BKG	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	0.00E+00	0	1.84E-02	4.2789	4.12E-01	95.721	0.00E+00	0	4.30E-01	4.70E+00	8.90E+00	0.09	0.05	0.0008	0.0004
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	8.40E-06	3.10E-05	No BKG	No BKG	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	4.00E-01	2.00E+00	No BKG	No BKG	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.47E-01	7.35E-01	No BKG	No BKG	No BKG	No BKG

Notes:
95% UCL = 95% upper confidence level of the mean
% = Percent
AUF = Area use factor
BHC = Hexachlorocyclohexane
BKG = Background
DL = Detection limit
DDx = Sum of all DDT metabolites
HQ = Hazard quotient
Inverts = Invertebrates
LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
mg/kg ww = Milligram per kilogram of wet weight
mg/kg-bw d = Milligrams per kilogram bodyweight per day
NC = No criterion
ND = Nondetects
NOAEL = No observed adverse effects level
OCPs = Organophosphate pesticides
TEQ = Toxicity equivalent quotient
TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

TABLE G-7. Potential Daily Dose and Hazard Quotients for Raccoon: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada

MAXIMUM CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.43)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	1.04E-01	5.22	1.24E+00	62.68	6.37E-01	32.10	0.00E+00	0	1.99E+00	6.40E+00	3.20E+01	0.3	0.06	0.1	0.03
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	6.46E-01	50.87	7.59E-02	5.97	5.48E-01	43.16	0.00E+00	0	1.27E+00	4.70E+00	8.90E+00	0.3	0.1	0.1	0.06
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	1.03E-06	23.04	2.21E-08	0.49	3.43E-06	76.47	0.00E+00	0	4.48E-06	8.40E-06	3.10E-05	0.5	0.1	0.2	0.06
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	2.17E-06	23.04	4.66E-08	0.49	7.21E-06	76.47	0.00E+00	0	9.42E-06	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	2.80E-04	3.03	2.61E-04	2.82	8.71E-03	94.15	0.00E+00	0	9.25E-03	4.00E-01	2.00E+00	0.02	0.005	0.01	0.002
OCPs	Calculated DDX (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	1.35E-04	3.10	1.01E-04	2.33	4.12E-03	94.57	0.00E+00	0	4.36E-03	1.47E-01	7.35E-01	0.03	0.006	0.01	0.003

95% UCL CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.43)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	2.06E-02	3.28	4.81E-01	76.52	1.27E-01	20.20	0.00E+00	0	6.29E-01	6.40E+00	3.20E+01	0.1	0.02	0.04	0.008
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	1.37E-01	42.10	3.19E-02	9.75	1.57E-01	48.15	0.00E+00	0	3.27E-01	4.70E+00	8.90E+00	0.07	0.04	0.03	0.02
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	2.83E-07	23.04	6.07E-09	0.49	9.39E-07	76.47	0.00E+00	0	1.23E-06	8.40E-06	3.10E-05	0.1	0.04	0.06	0.02
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	5.81E-07	23.04	1.25E-08	0.49	1.93E-06	76.47	0.00E+00	0	2.52E-06	NA	NA	NA	NA	NA	NA
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	5.34E-05	3.03	4.97E-05	2.82	1.66E-03	94.15	0.00E+00	0	1.76E-03	4.00E-01	2.00E+00	0.004	0.0009	0.002	0.0004
OCPs	Calculated DDX (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	3.42E-05	3.07	3.60E-05	3.24	1.04E-03	93.69	0.00E+00	0	1.11E-03	1.47E-01	7.35E-01	0.008	0.002	0.003	0.0006

95% UCL BACKGROUND CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.43)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	6.40E+00	3.20E+01	No BKG	No BKG	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	4.39E-02	35.61	1.68E-02	13.62	6.26E-02	50.77	0.00E+00	0	1.23E-01	4.70E+00	8.90E+00	0.03	0.01	0.01	0.006
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	8.40E-06	3.10E-05	No BKG	No BKG	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	4.00E-01	2.00E+00	No BKG	No BKG	No BKG	No BKG
OCPs	Calculated DDX (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.47E-01	7.35E-01	No BKG	No BKG	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDX = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

**TABLE G-8. Potential Daily Dose and Hazard Quotients for Mourning Dove: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

MAXIMUM CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.043)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	5.69E-02	4.71	1.15E+00	95.29	0.00E+00	0	0.00E+00	0	1.21E+00	1.30E+01	2.60E+01	0.09	0.05	0.004	0.002
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	3.55E-01	83.48	7.02E-02	16.52	0.00E+00	0	0.00E+00	0	4.25E-01	1.63E+00	3.26E+00	0.3	0.1	0.01	0.006
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	5.67E-07	96.51	2.05E-08	3.49	0.00E+00	0	0.00E+00	0	5.87E-07	NA	NA	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	1.19E-06	96.51	4.31E-08	3.49	0.00E+00	0	0.00E+00	0	1.24E-06	1.40E-05	1.40E-04	0.09	0.009	0.004	0.0004
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	1.54E-04	38.93	2.41E-04	61.07	0.00E+00	0	0.00E+00	0	3.95E-04	5.60E-01	2.25E+00	0.0007	0.0002	0.00003	0.000008
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	7.42E-05	44.18	9.38E-05	55.82	0.00E+00	0	0.00E+00	0	1.68E-04	2.27E-01	2.27E+00	0.0007	0.00007	0.00003	0.000003

95% UCL CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.043)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	1.13E-02	2.48	4.45E-01	97.52	0.00E+00	0	0.00E+00	0	4.57E-01	1.30E+01	2.60E+01	0.04	0.02	0.002	0.0008
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	7.55E-02	71.93	2.95E-02	28.07	0.00E+00	0	0.00E+00	0	1.05E-01	1.63E+00	3.26E+00	0.06	0.03	0.003	0.001
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	1.55E-07	96.51	5.61E-09	3.49	0.00E+00	0	0.00E+00	0	1.61E-07	NA	NA	NA	NA	NA	NA
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	3.19E-07	96.51	1.15E-08	3.49	0.00E+00	0	0.00E+00	0	3.30E-07	1.40E-05	1.40E-04	0.02	0.002	0.001	0.0001
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	2.93E-05	38.93	4.60E-05	61.07	0.00E+00	0	0.00E+00	0	7.53E-05	5.60E-01	2.25E+00	0.0001	0.00003	0.000006	0.000001
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	1.88E-05	36.03	3.33E-05	63.97	0.00E+00	0	0.00E+00	0	5.21E-05	2.27E-01	2.27E+00	0.0002	0.00002	0.00001	0.000001

95% UCL BACKGROUND CONCENTRATIONS																				
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		HQ (AUF = 0.043)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.30E+01	2.60E+01	No BKG	No BKG	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	2.41E-02	60.82	1.55E-02	39.18	0.00E+00	0	0.00E+00	0	3.96E-02	1.63E+00	3.26E+00	0.02	0.01	0.001	0.0005
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.40E-05	1.40E-04	No BKG	No BKG	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	5.60E-01	2.25E+00	No BKG	No BKG	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	2.27E-01	2.27E+00	No BKG	No BKG	No BKG	No BKG

Notes:

95% UCL = 95% upper confidence level of the mean
 % = Percent
 AUF = Area use factor
 BHC = Hexachlorocyclohexane
 BKG = Background
 DL = Detection limit
 DDx = Sum of all DDT metabolites
 HQ = Hazard quotient
 Inverts = Invertebrates
 LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
 mg/kg ww = Milligram per kilogram of wet weight
 mg/kg-bw d = Milligrams per kilogram bodyweight per day
 NC = No criterion
 ND = Nondetects
 NOAEL = No observed adverse effects level
 OCPs = Organophosphate pesticides
 TEQ = Toxicity equivalent quotient
 TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

**TABLE G-9. Potential Daily Dose and Hazard Quotients for Great Basin Pocket Mouse: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

MAXIMUM CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	2.18E+01	1.03E+01	7.88E+00	3.28E+00	1.67E-01	8.67	1.63E+00	84.15	1.39E-01	7.18	0.00E+00	0	1.93E+00	6.40E+00	3.20E+01	0.3	0.06
Metals	Lead	1.36E+02	6.26E-01	6.78E+00	3.03E+00	1.04E+00	82.71	9.91E-02	7.84	1.19E-01	9.45	0.00E+00	0	1.26E+00	4.70E+00	8.90E+00	0.3	0.1
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	2.17E-04	1.83E-07	4.24E-05	1.61E-07	1.67E-06	68.30	2.89E-08	1.18	7.46E-07	30.51	0.00E+00	0	2.44E-06	8.40E-06	3.10E-05	0.3	0.08
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	4.57E-04	3.84E-07	8.91E-05	3.39E-07	3.51E-06	68.30	6.08E-08	1.18	1.57E-06	30.51	0.00E+00	0	5.14E-06	NA	NA	NA	NA
OCPs	beta-BHC	5.90E-02	2.15E-03	1.08E-01	4.72E-01	4.53E-04	16.85	3.41E-04	12.67	1.90E-03	70.48	0.00E+00	0	2.69E-03	4.00E-01	2.00E+00	0.007	0.001
OCPs	Calculated DDx (ND=0.5DL)	2.84E-02	8.36E-04	5.10E-02	2.46E-01	2.19E-04	17.51	1.32E-04	10.61	8.97E-04	71.88	0.00E+00	0	1.25E-03	1.47E-01	7.35E-01	0.008	0.002

95% UCL CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	4.35E+00	3.97E+00	1.57E+00	6.53E-01	3.34E-02	4.84	6.29E-01	91.15	2.77E-02	4.01	0.00E+00	0	6.90E-01	6.40E+00	3.20E+01	0.1	0.02
Metals	Lead	2.89E+01	2.63E-01	1.94E+00	1.53E+00	2.22E-01	74.57	4.16E-02	13.95	3.42E-02	11.48	0.00E+00	0	2.98E-01	4.70E+00	8.90E+00	0.06	0.03
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	5.95E-05	5.00E-08	1.16E-05	4.41E-08	4.57E-07	68.30	7.92E-09	1.18	2.04E-07	30.51	0.00E+00	0	6.70E-07	8.40E-06	3.10E-05	0.08	0.02
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	1.22E-04	1.03E-07	2.38E-05	9.06E-08	9.39E-07	68.30	1.63E-08	1.18	4.19E-07	30.51	0.00E+00	0	1.37E-06	NA	NA	NA	NA
OCPs	beta-BHC	1.12E-02	4.10E-04	2.05E-02	1.42E-01	8.64E-05	16.85	6.49E-05	12.67	3.61E-04	70.48	0.00E+00	0	5.13E-04	4.00E-01	2.00E+00	0.001	0.0003
OCPs	Calculated DDx (ND=0.5DL)	7.20E-03	2.97E-04	1.29E-02	6.23E-02	5.53E-05	16.79	4.71E-05	14.29	2.27E-04	68.92	0.00E+00	0	3.29E-04	1.47E-01	7.35E-01	0.002	0.0004

95% UCL BACKGROUND CONCENTRATIONS																		
Group	Chemical	Media Concentrations				Potential Daily Dose								TRV		HQ (AUF = 1) (d)		
		Soil	Plants (a)	Inverts (b)	Small Mammals (c)	Soil		Plants		Invertebrates		Mammals		Total	NOAEL	LOAEL	NOAEL	LOAEL
		mg/kg	mg/kg ww	mg/kg ww	mg/kg ww	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	% of Diet	mg/kg bw-d	mg/kg bw-d	mg/kg bw-d	unitless	unitless
General Chemistry	Perchlorate	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	6.40E+00	3.20E+01	No BKG	No BKG
Metals	Lead	9.24E+00	1.38E-01	7.74E-01	9.23E-01	7.10E-02	66.63	2.19E-02	20.58	1.36E-02	12.79	0.00E+00	0	1.07E-01	4.70E+00	8.90E+00	0.02	0.01
Dioxins/ Furans	Ramboll calculated TEQ (mammals; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	8.40E-06	3.10E-05	No BKG	No BKG
Dioxins/ Furans	Ramboll calculated TEQ (birds; ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	NA	NA	No BKG	No BKG
OCPs	beta-BHC	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	4.00E-01	2.00E+00	No BKG	No BKG
OCPs	Calculated DDx (ND=0.5DL)	--	No BKG	No BKG	No BKG	No BKG	--	No BKG	--	No BKG	--	No BKG	--	No BKG	1.47E-01	7.35E-01	No BKG	No BKG

Notes:
95% UCL = 95% upper confidence level of the mean
% = Percent
AUF = Area use factor
BHC = Hexachlorocyclohexane
BKG = Background
DL = Detection limit
DDx = Sum of all DDT metabolites
HQ = Hazard quotient
Inverts = Invertebrates
LOAEL = Lowest observed adverse effects level

mg/kg = Milligrams per kilogram
mg/kg ww = Milligram per kilogram of wet weight
mg/kg-bw d = Milligrams per kilogram bodyweight per day
NC = No criterion
ND = Nondetects
NOAEL = No observed adverse effects level
OCPs = Organophosphate pesticides
TEQ = Toxicity equivalent quotient
TRV = Toxicity reference value

- (a) Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.
- (b) Invertebrates are assumed to be 16% solids. The dry weight is multiplied by 0.16 to convert to wet weight.
- (c) Small mammals are assumed to be 32% solids. The dry weight concentration is multiplied by 0.32 to convert to wet weight.
- (d) An AUF of 1 assumes that a receptor spends 100% of its time at the site.

APPENDIX H UNCERTAINTY ANALYSIS

- H-1 Evaluation of Chemicals Detected Lacking ESVs
- H-2 Evaluation of Sample Quantitation Limits for Chemicals Not Detected with
ESVs
- H-3 Summary of Chemicals Not Detected Lacking ESVs
- H-4 Uncertainties Associated with Dioxin and Furan Bioaccumulation Factors for
Soil Invertebrates
- H-5 Uncertainties Associated with Using ECOSAR for Soil Criteria

APPENDIX H-1 EVALUATION OF CHEMICALS DETECTED LACKING ESVS

Figure H-1a	Spatial Surface Soil Concentration Plot for Bomide
Figure H-1b	Spatial Surface Soil Concentration Plot for Chlorate
Figure H-1c	Spatial Surface Soil Concentration Plot for Chloric Acid
Figure H-1d	Spatial Surface Soil Concentration Plot for Chlorine
Figure H-1e	Spatial Surface Soil Concentration Plot for Nitrate (as N)
Figure H-1f	Spatial Surface Soil Concentration Plot for Ortho-Phosphate
Figure H-1g	Spatial Surface Soil Concentration Plot for Sulfate
Figure H-1h	Spatial Surface Soil Concentration Plot for Sulfur
Figure H-1i	Spatial Surface Soil Concentration Plot for 2,4-DB
Figure H-1j	Spatial Surface Soil Concentration Plot for Dicamba
Figure H-1l	Spatial Surface Soil Concentration Plot for Organic Halides

Table H-1	Evaluation of Chemicals Detected Lacking ESVs: OU-2
-----------	---

Refined Screening Level Ecological Risk Assessment
for Operable Unit-2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

**SPATIAL PLOT FIGURES
DETECTED CHEMICALS LACKING ESVs**

Legend

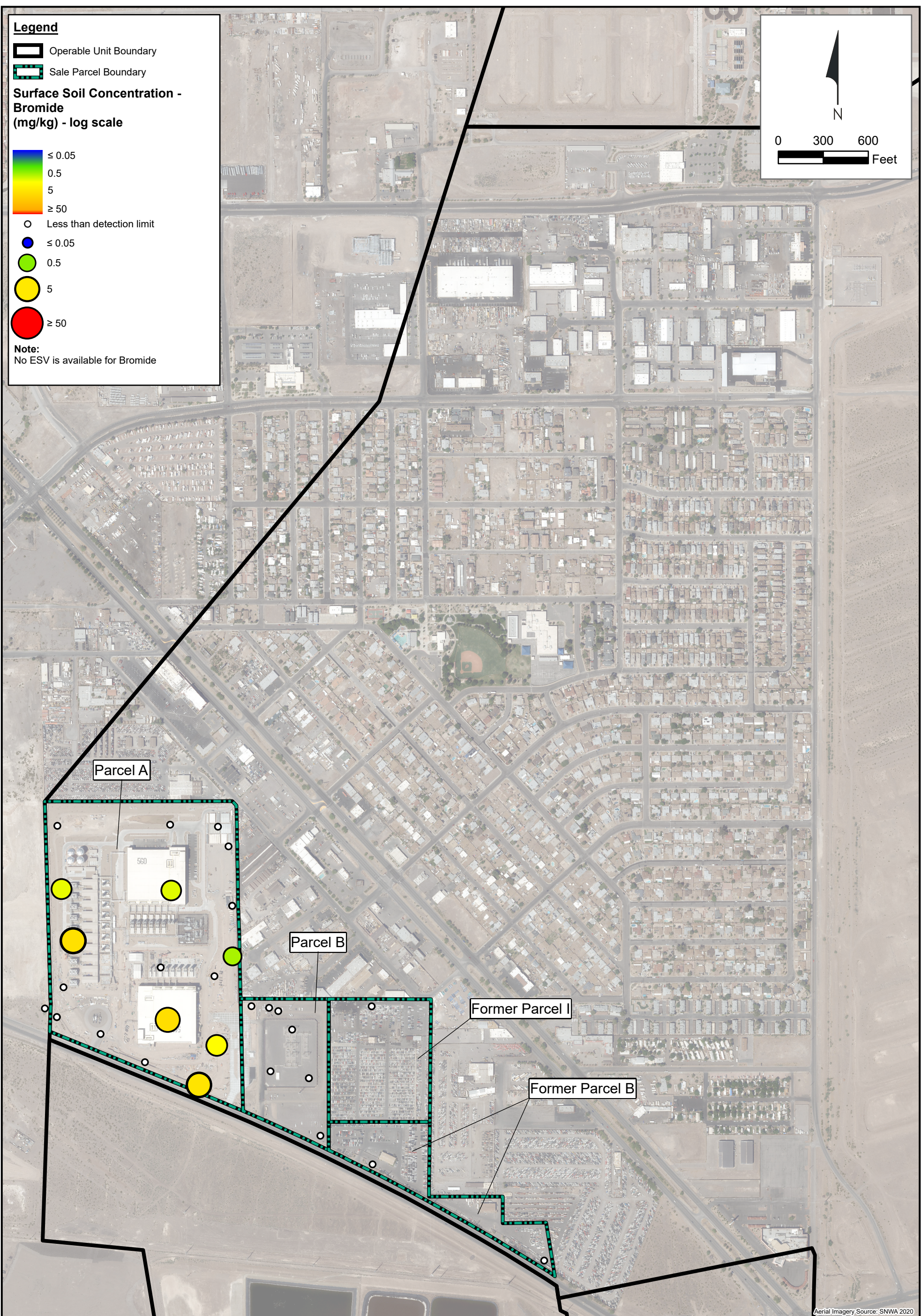
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Bromide (mg/kg) - log scale

- ≤ 0.05
- 0.5
- 5
- ≥ 50

- Less than detection limit
- ≤ 0.05
- 0.5
- 5
- ≥ 50

Note:
No ESV is available for Bromide



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1a Bromide

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Bromide
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1a

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

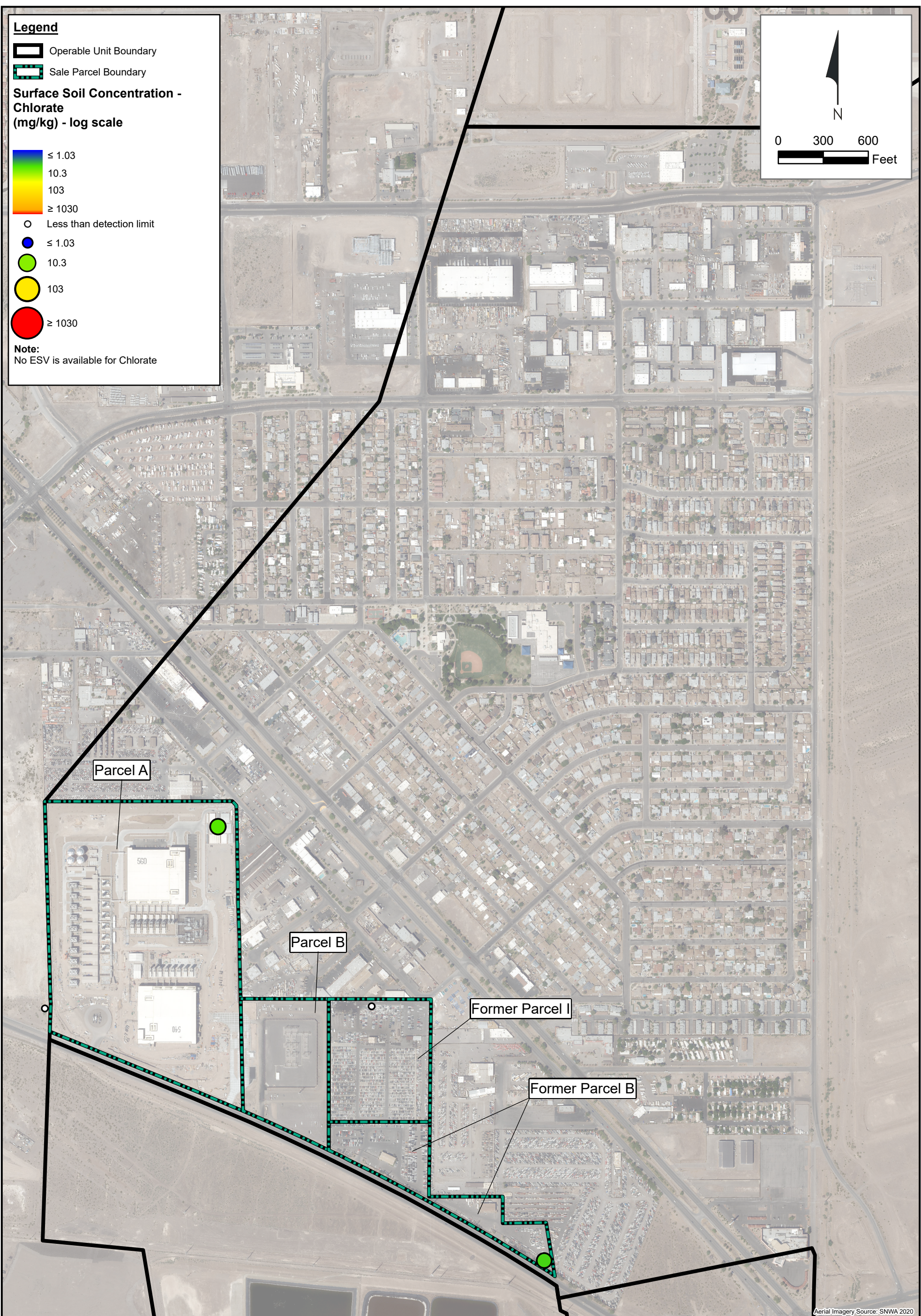
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Chlorate (mg/kg) - log scale

- ≤ 1.03
- 10.3
- 103
- ≥ 1030

- Less than detection limit
- ≤ 1.03
- 10.3
- 103
- ≥ 1030

Note:
No ESV is available for Chlorate



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_3.aprx\Figure H-1b Chlorate

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Chlorate
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1b

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

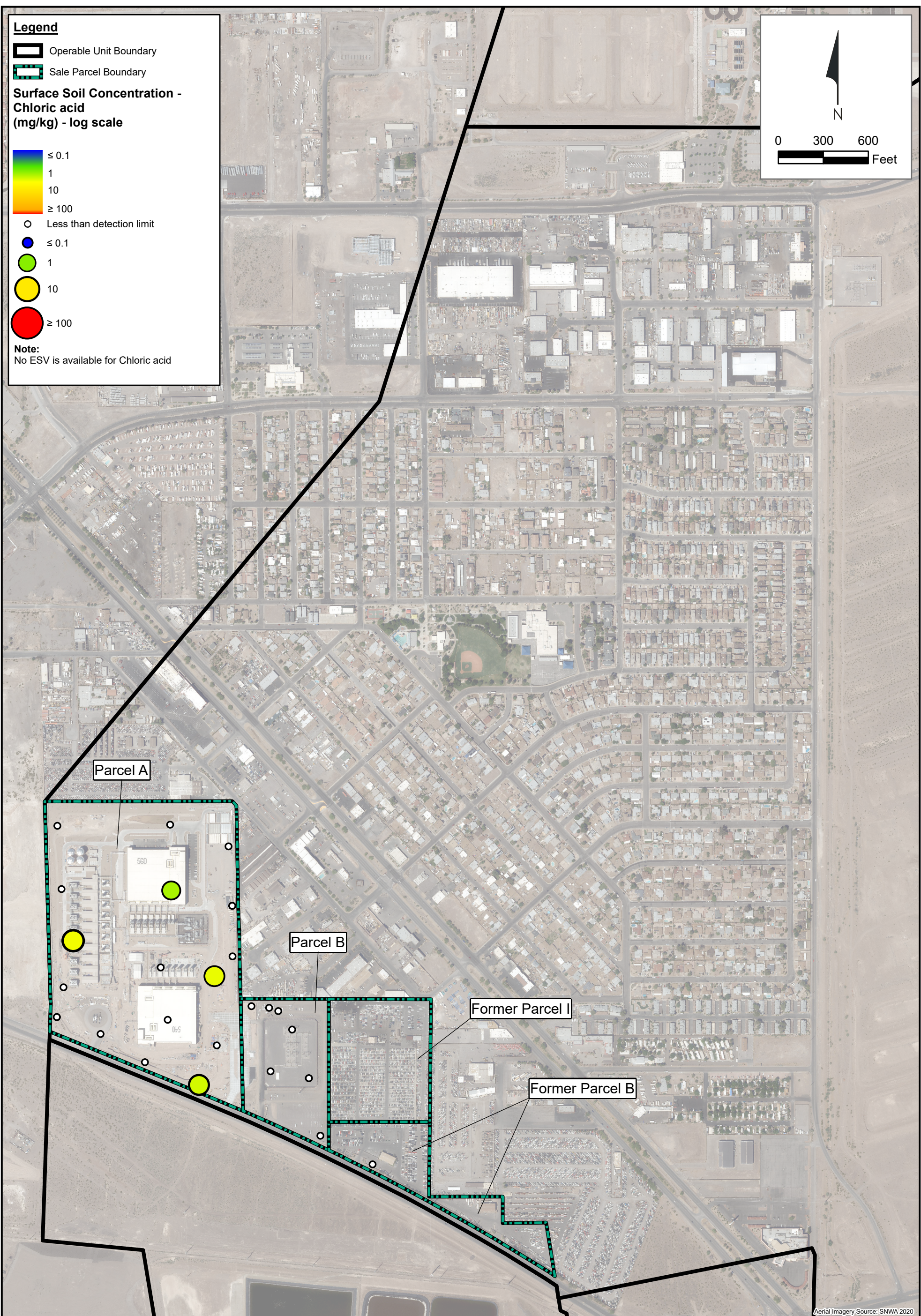
Surface Soil Concentration - Chloric acid (mg/kg) - log scale

- ≤ 0.1
- 1
- 10
- ≥ 100

○ Less than detection limit

- ≤ 0.1
- 1
- 10
- ≥ 100

Note:
No ESV is available for Chloric acid



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_3.aprx\Figure H-1c Chloric acid

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Chloric acid
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1c

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

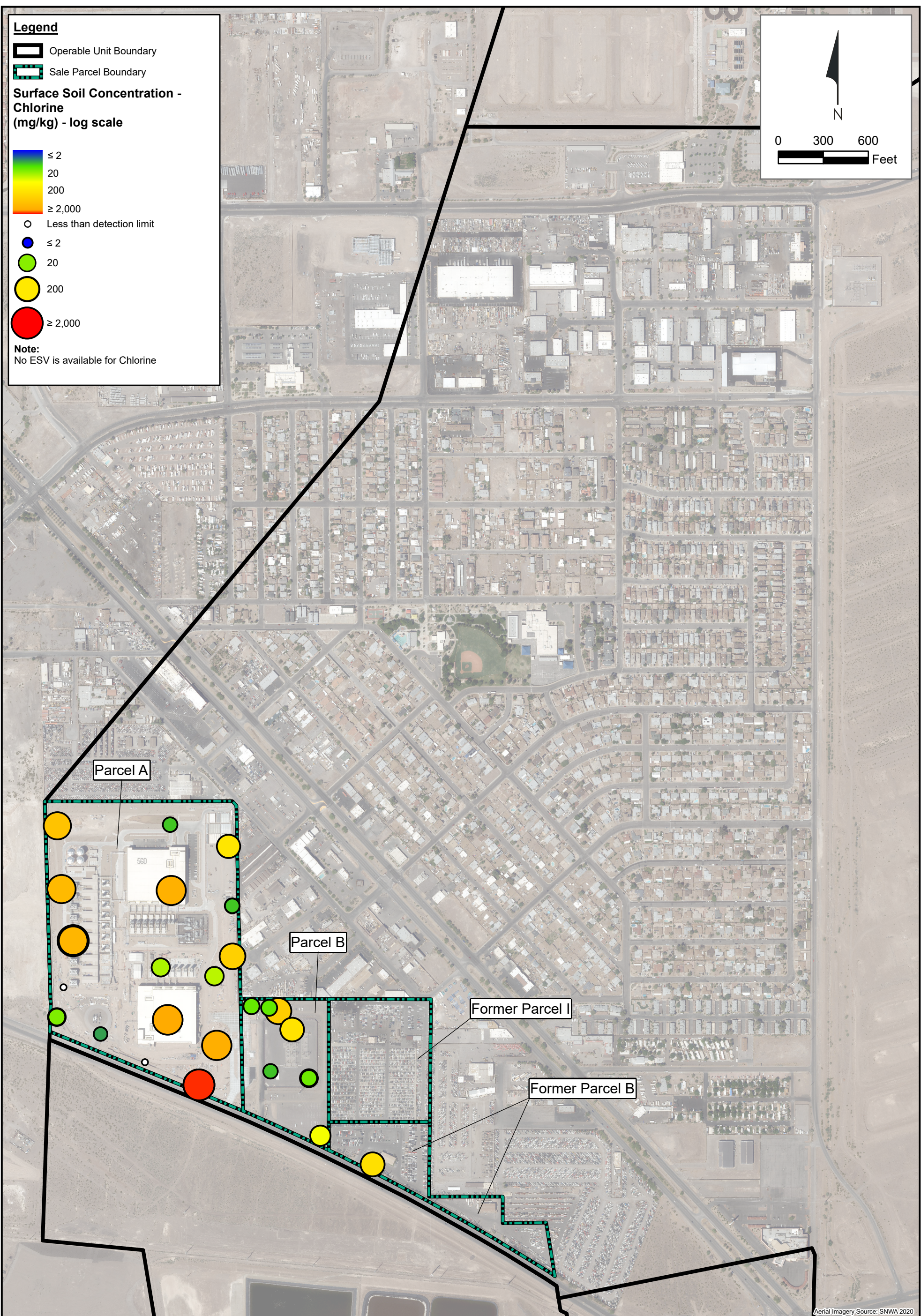
Surface Soil Concentration - Chlorine (mg/kg) - log scale

- ≤ 2
- 20
- 200
- ≥ 2,000

○ Less than detection limit

- ≤ 2
- 20
- 200
- ≥ 2,000

Note:
No ESV is available for Chlorine



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_3.aprx\Figure H-1d Chlorine

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Chlorine
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1d

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

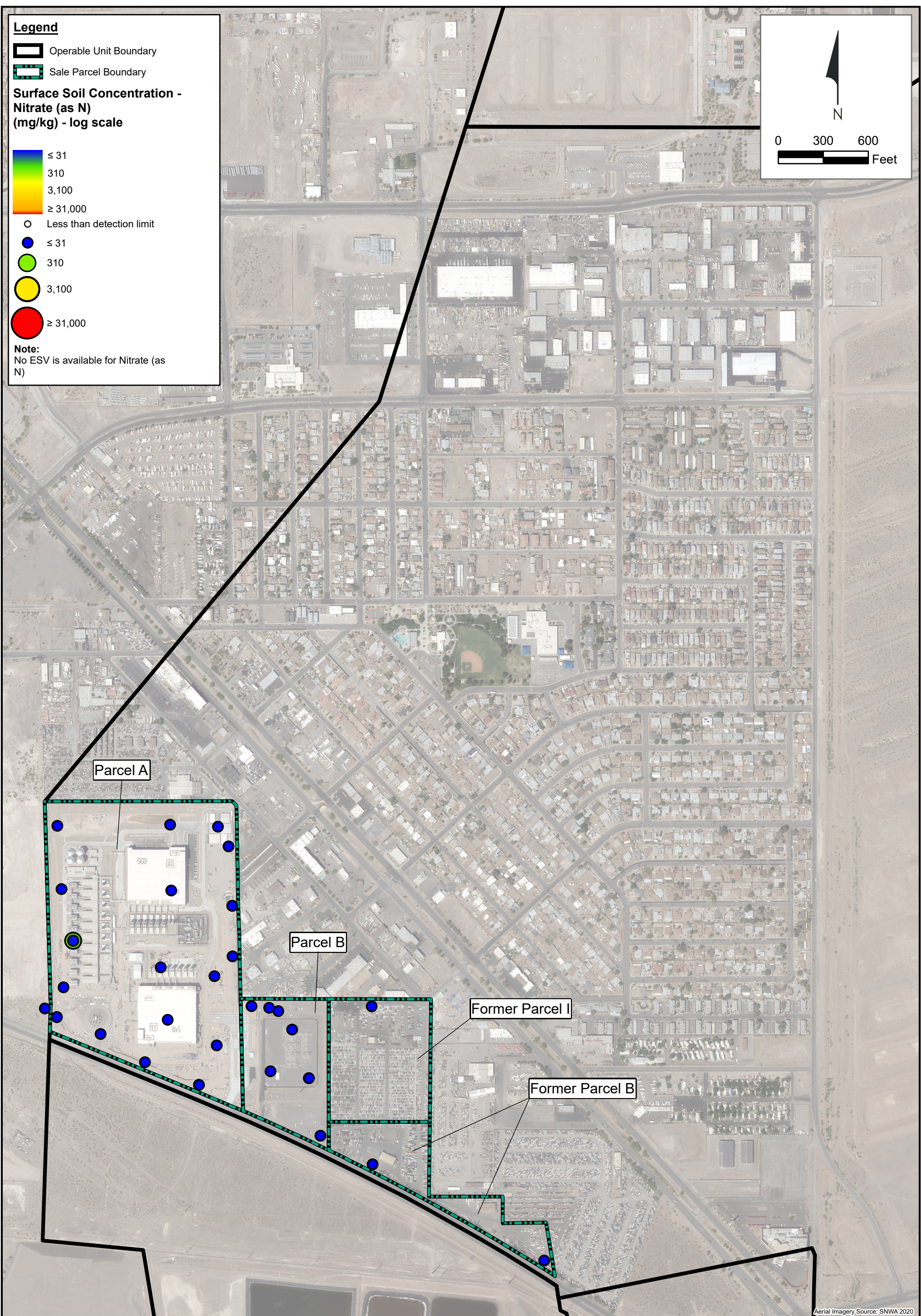
Surface Soil Concentration - Nitrate (as N) (mg/kg) - log scale

- ≤ 31
- 310
- 3,100
- ≥ 31,000

○ Less than detection limit

- ≤ 31
- 310
- 3,100
- ≥ 31,000

Note:
No ESV is available for Nitrate (as N)



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1e Nitrate (as N)

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Nitrate (as N)
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1e

Legend

Operable Unit Boundary

Sale Parcel Boundary

Surface Soil Concentration - ortho-Phosphate (mg/kg) - log scale

≤ 1

10

100

≥ 1,000

○ Less than detection limit

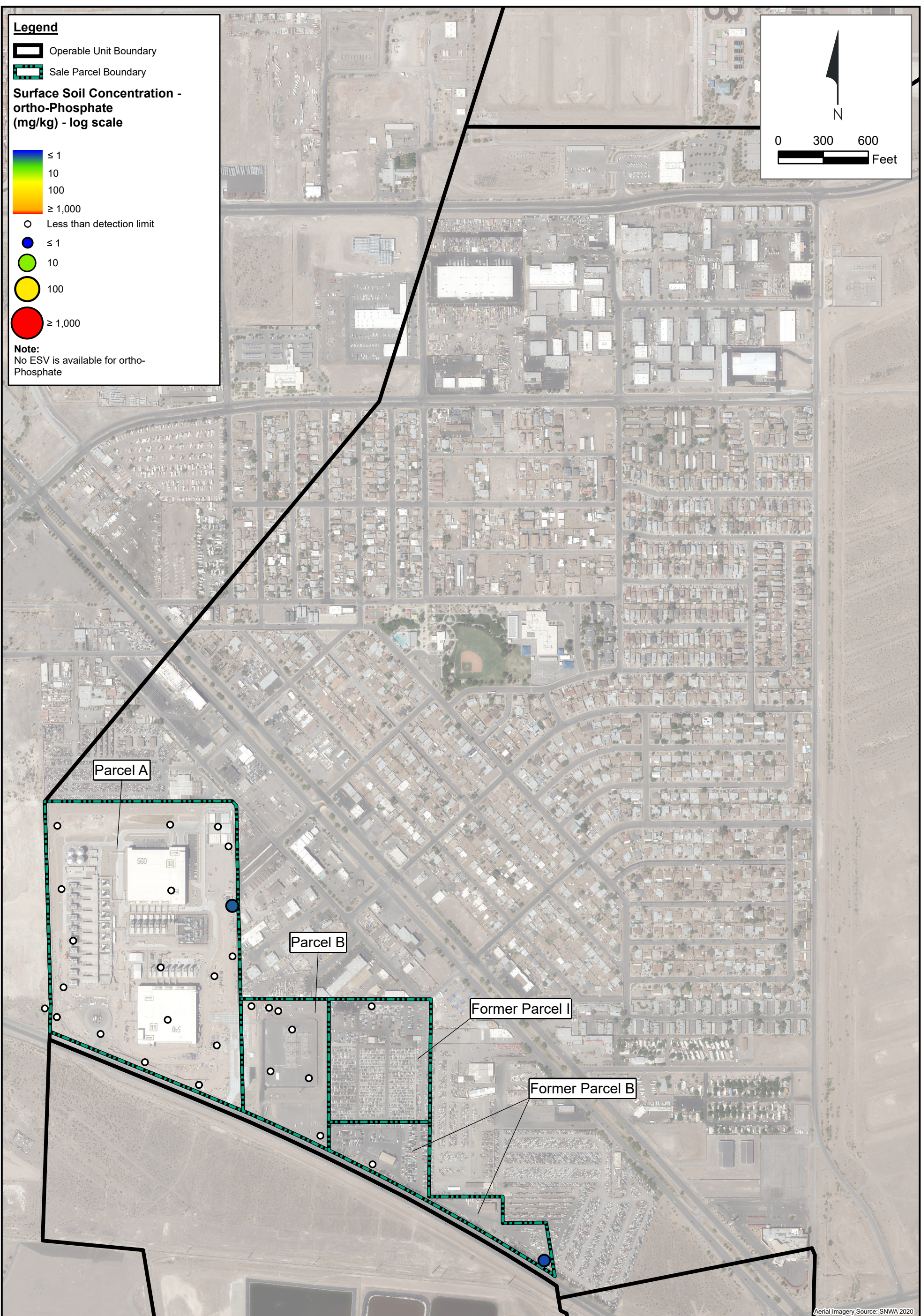
● ≤ 1

● 10

● 100

● ≥ 1,000

Note:
No ESV is available for ortho-Phosphate



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1f ortho-Phosphate

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for ortho-Phosphate
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1f

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

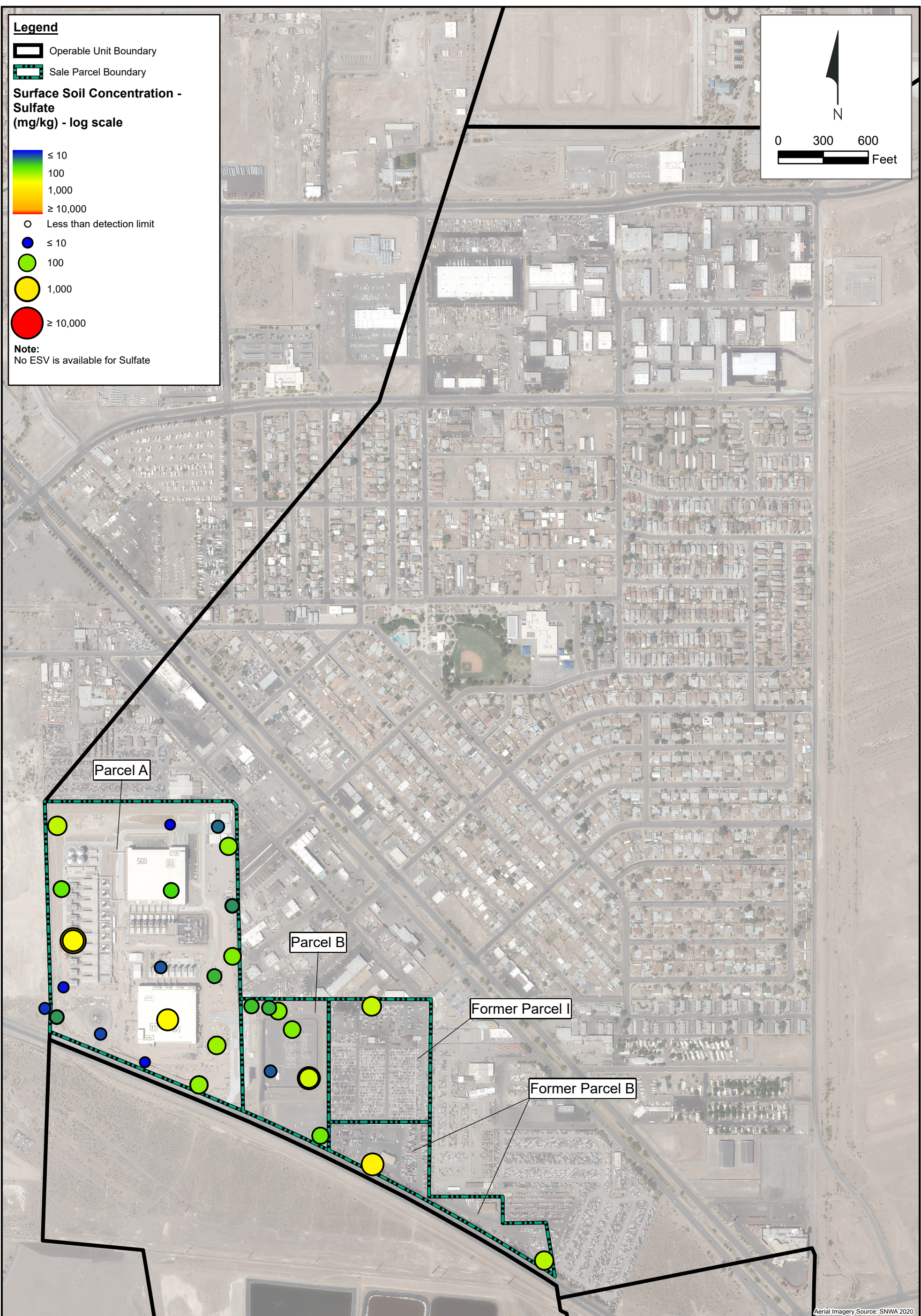
Surface Soil Concentration - Sulfate (mg/kg) - log scale

- ≤ 10
- 100
- 1,000
- ≥ 10,000

○ Less than detection limit

- ≤ 10
- 100
- 1,000
- ≥ 10,000

Note:
No ESV is available for Sulfate



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_3.aprx\Figure H-1g_Sulfate

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Sulfate
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1g

Legend

- Operable Unit Boundary
- Sale Parcel Boundary

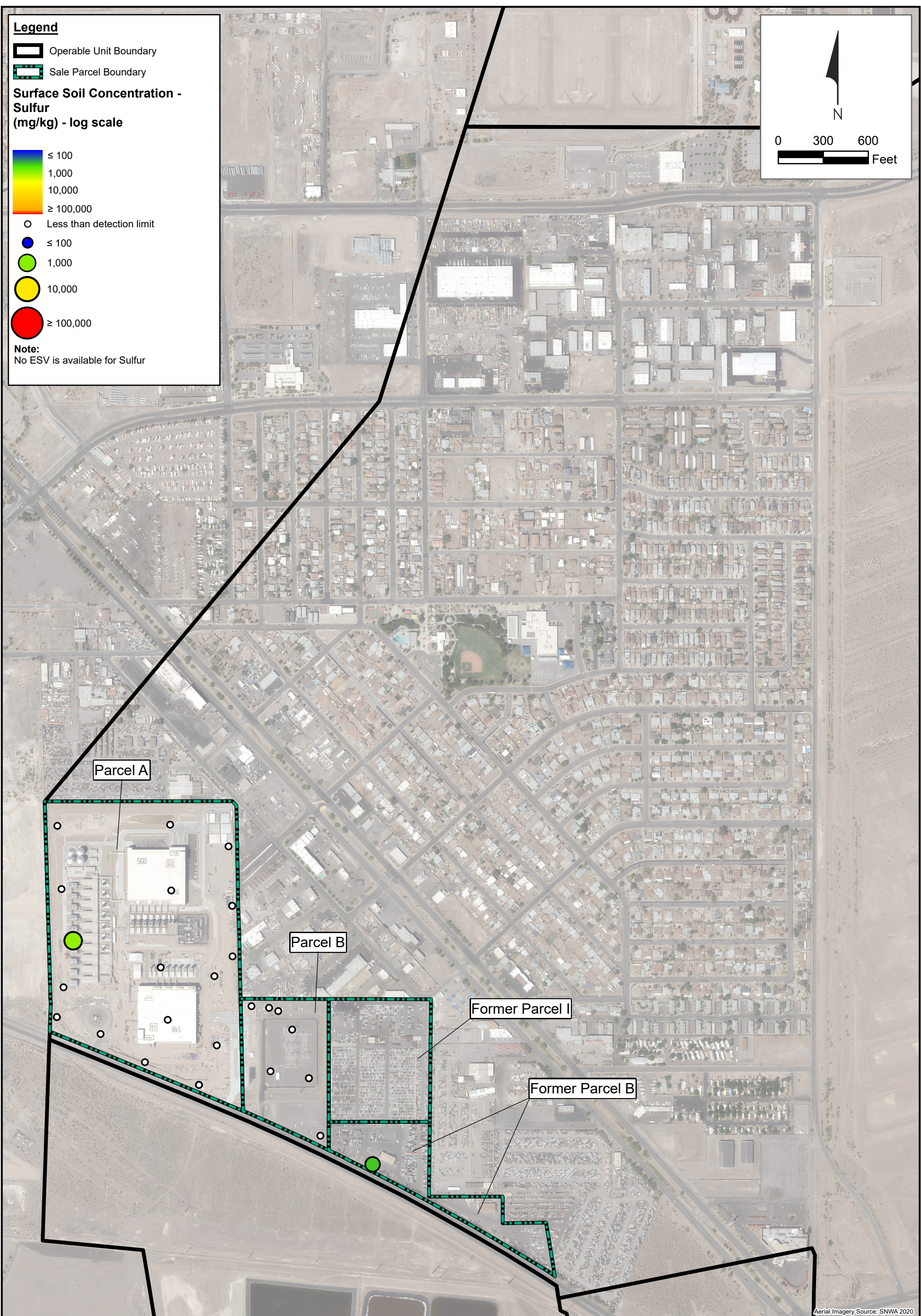
Surface Soil Concentration - Sulfur (mg/kg) - log scale

- ≤ 100
- 1,000
- 10,000
- ≥ 100,000

○ Less than detection limit

- ≤ 100
- 1,000
- 10,000
- ≥ 100,000

Note:
No ESV is available for Sulfur



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1h Sulfur

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Sulfur
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1h






Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

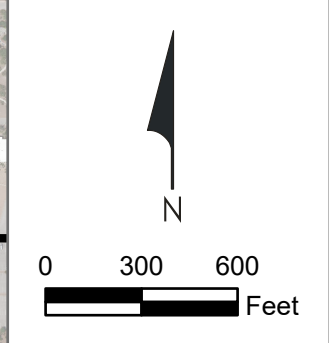
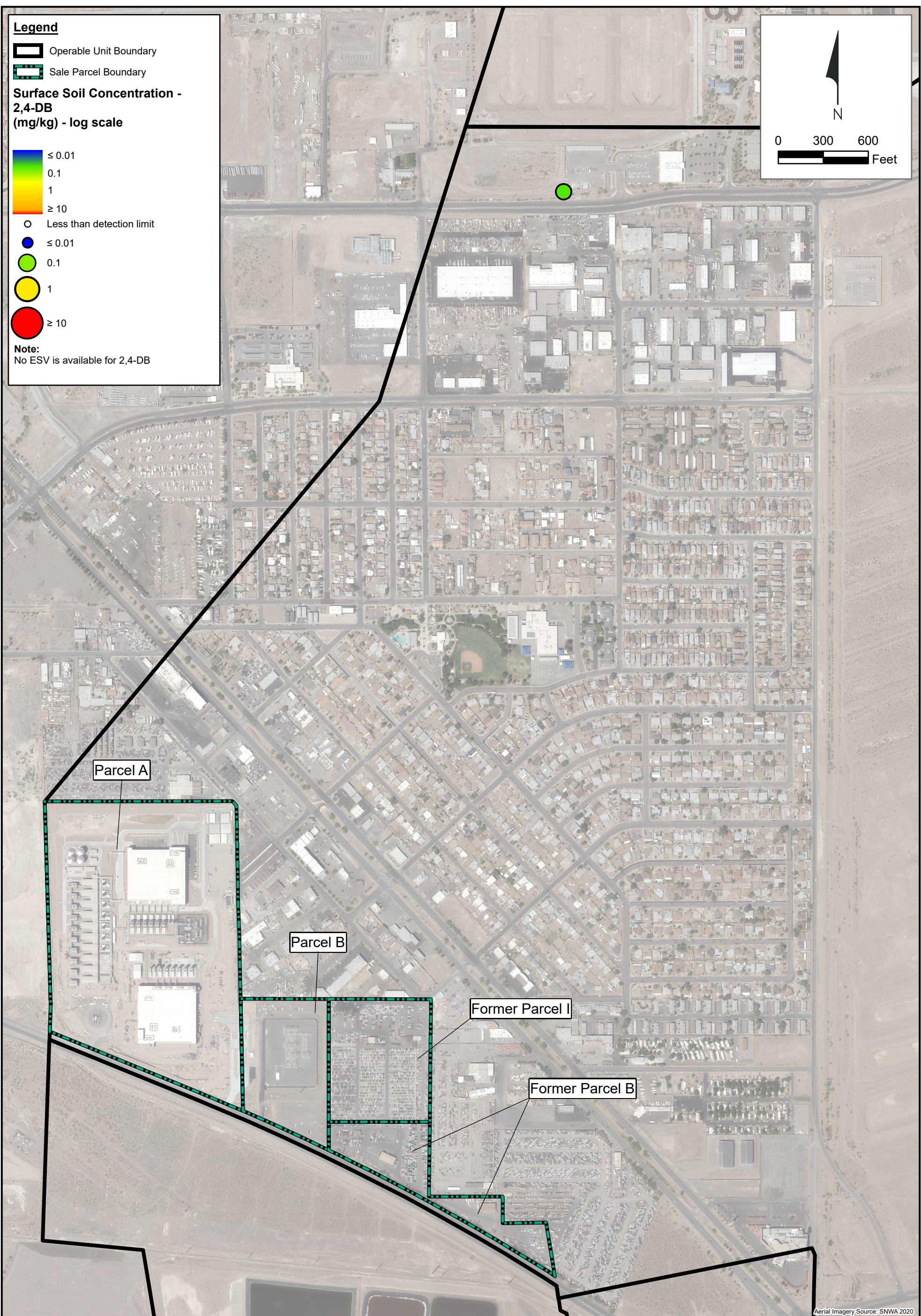
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - 2,4-DB (mg/kg) - log scale

-  ≤ 0.01
-  ≤ 0.01
-  0.1
-  1
-  ≥ 10

Note:
No ESV is available for 2,4-DB

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-11_2_4-DB

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for 2,4-DB
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1i

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

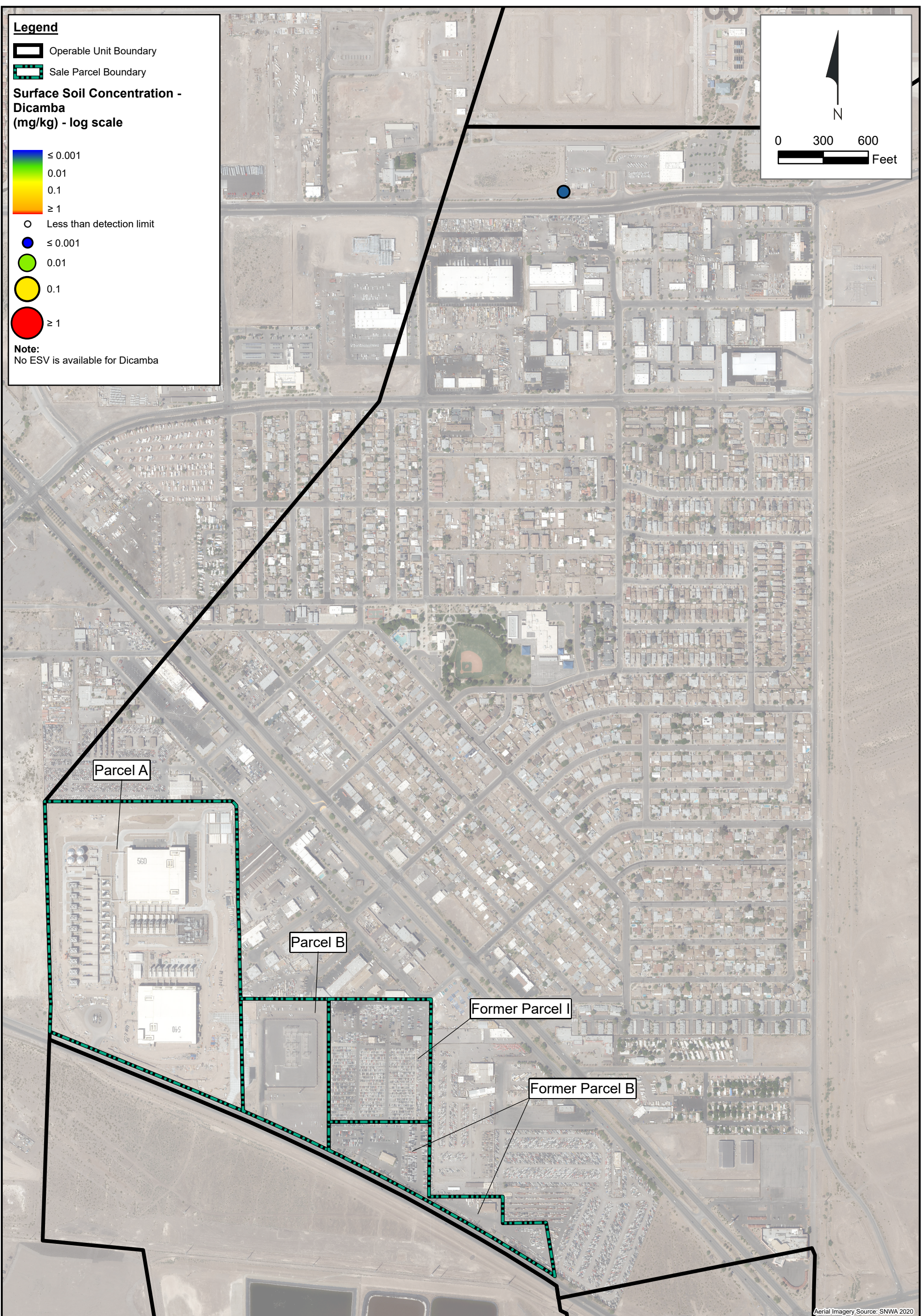
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Dicamba (mg/kg) - log scale

- ≤ 0.001
- 0.01
- 0.1
- ≥ 1

- Less than detection limit
- ≤ 0.001
- 0.01
- 0.1
- ≥ 1

Note:
No ESV is available for Dicamba



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1j Dicamba

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Dicamba
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1j

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

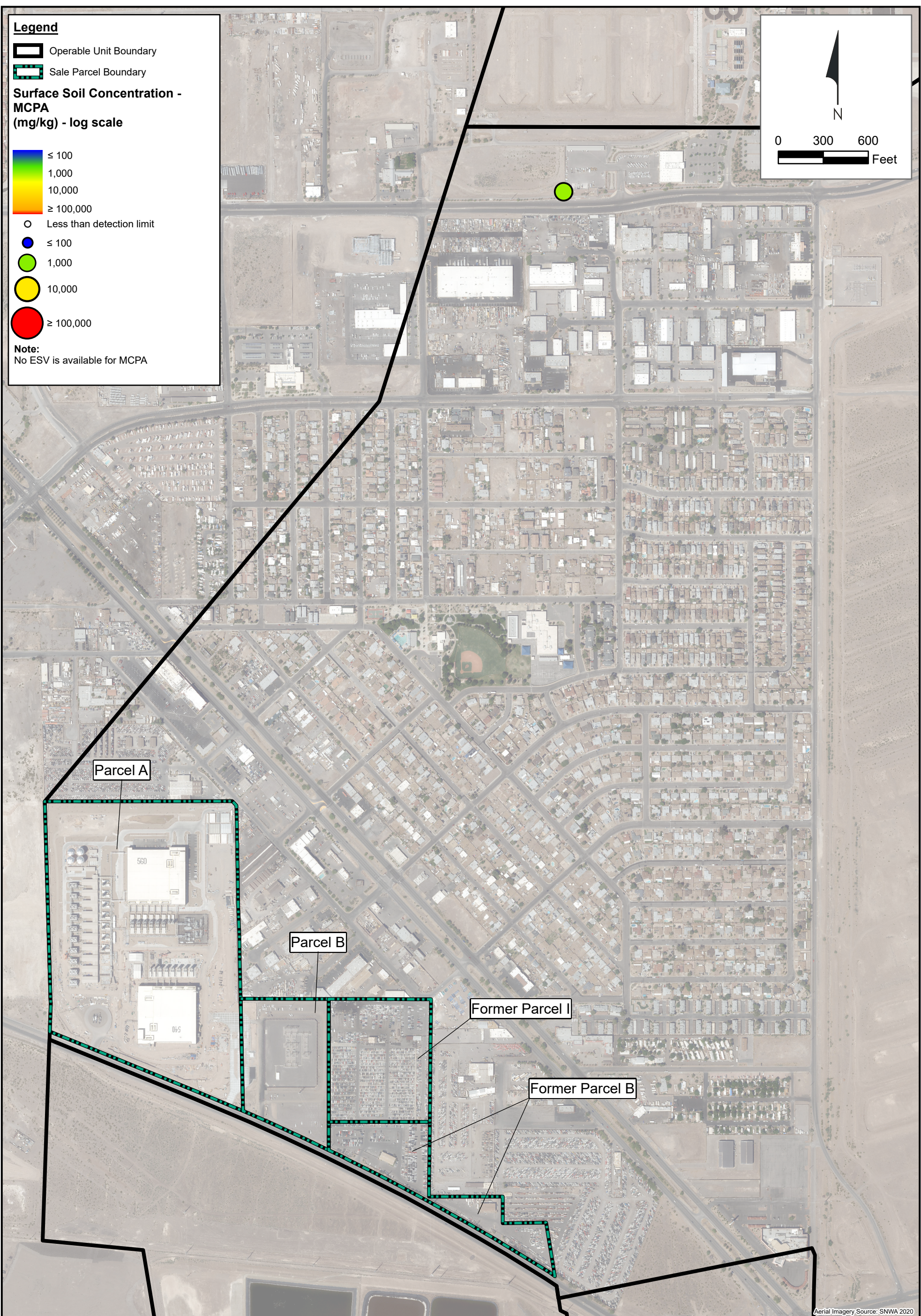
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - MCPA (mg/kg) - log scale

- ≤ 100
- 1,000
- 10,000
- ≥ 100,000

- Less than detection limit
- ≤ 100
- 1,000
- 10,000
- ≥ 100,000

Note:
No ESV is available for MCPA



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_3.aprx\Figure H-1k MCPA (2-Methyl-4-chlorophenoxy acetic acid)

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for MCPA
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-1k





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:






Last Saved By:

Legend

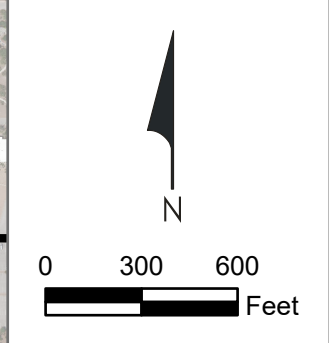
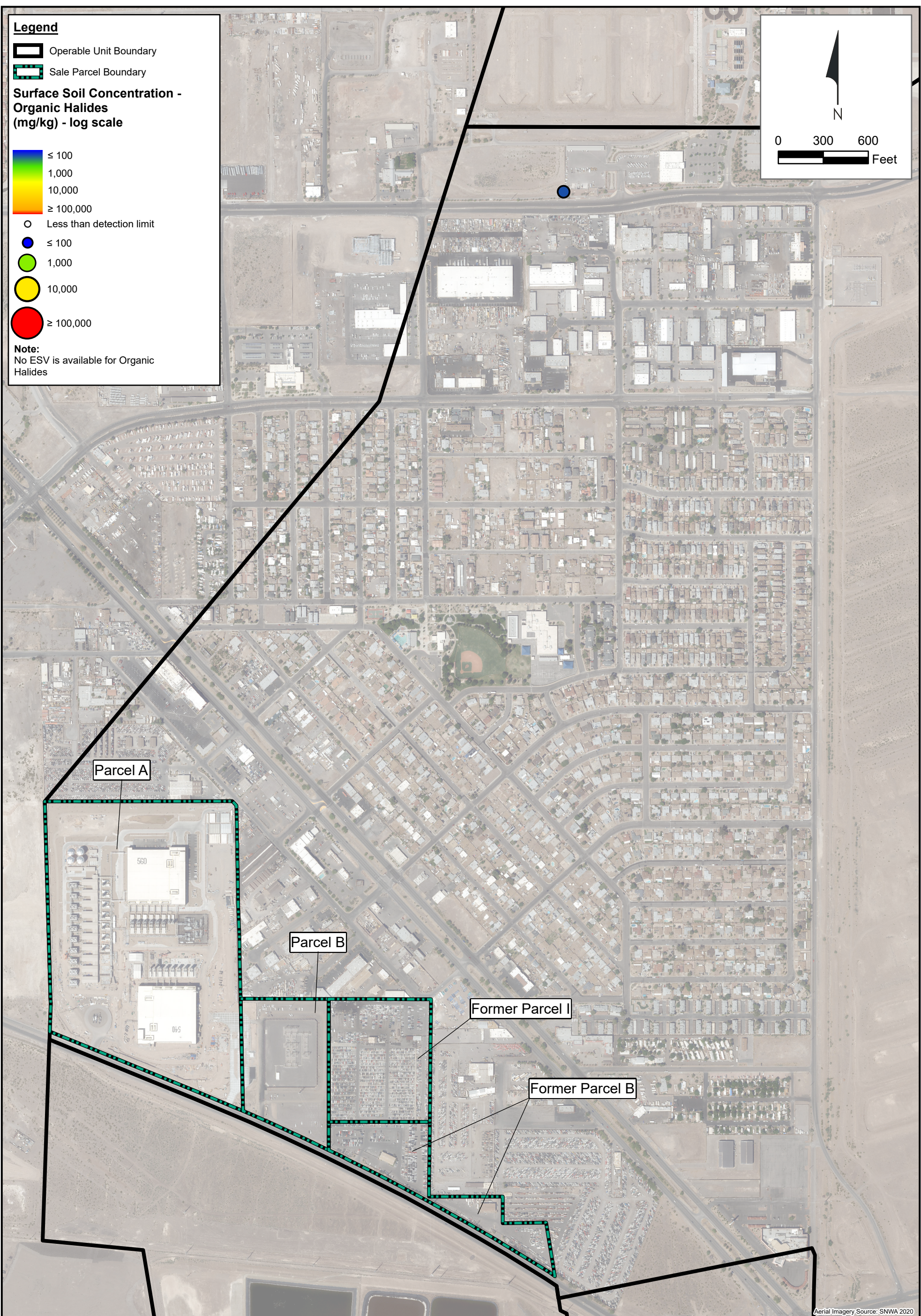
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Organic Halides (mg/kg) - log scale

-  ≤ 100
-  1,000
-  10,000
-  ≥ 100,000

-  Less than detection limit
-  ≤ 100
-  1,000
-  10,000
-  ≥ 100,000

Note:
No ESV is available for Organic Halides

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_3.aprx\Figure H-11 Organic Halides (total)

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Organic Halides
Nevada Environmental Response Trust
Henderson, Nevada

Figure
H-11

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

**Table H-1: Evaluation for Chemicals Detected Lacking ESVs
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Chemical Name	CASRN	Result (mg/kg)	Detect Flag	Qualifier
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	Bromide	24959-67-9	7.6	Y	J
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	Bromide	24959-67-9	6.3	Y	J
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	Bromide	24959-67-9	5.1	Y	J
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	Bromide	24959-67-9	4.6	Y	J
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	Bromide	24959-67-9	4.1	Y	J
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	Bromide	24959-67-9	1.7	Y	J
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	Bromide	24959-67-9	1.3	Y	J
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	Bromide	24959-67-9	1.2	Y	J
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.69	Y	J
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	Bromide	24959-67-9	0.58	N	U
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	Bromide	24959-67-9	0.56	N	U
SA26-0.5	SA26-0.5	11/20/2006	General Chemistry	Bromide	24959-67-9	0.54	N	U
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	Bromide	24959-67-9	0.52	N	U
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	Bromide	24959-67-9	0.066	N	UJ
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.066	N	U
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	Bromide	24959-67-9	0.066	N	U
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.065	N	U
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	Bromide	24959-67-9	0.065	N	U
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.065	N	U
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	Bromide	24959-67-9	0.065	N	U
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	Bromide	24959-67-9	0.064	N	UJ
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	Bromide	24959-67-9	0.064	N	U
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.063	N	U
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	Bromide	24959-67-9	0.063	N	U
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	Bromide	24959-67-9	0.063	N	U
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	Chlorate	14866-68-3	6.3	Y	J-
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	Chlorate	14866-68-3	5.1	Y	J-
SA26-0.5	SA26-0.5	11/20/2006	General Chemistry	Chlorate	14866-68-3	1.1	N	UJ
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	Chlorate	14866-68-3	1.1	N	UJ
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	Chloric acid	7790-93-4	4.6	Y	J
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	Chloric acid	7790-93-4	2.8	Y	J
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	2.8	Y	J
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	2.6	Y	J
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	Chloric acid	7790-93-4	2.1	Y	J
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1.4	Y	J
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	Chloric acid	7790-93-4	1.1	N	U
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1.1	N	U
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	Chloric acid	7790-93-4	1.1	N	U
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	Chloric acid	7790-93-4	1	N	U
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	Chlorine	7782-50-5	4410	Y	J
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	Chlorine	7782-50-5	1890	Y	J-
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	Chlorine	7782-50-5	1810	Y	J-
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	Chlorine	7782-50-5	1250	Y	J-
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	Chlorine	7782-50-5	1110	Y	J-
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	1030	Y	J-
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	863	Y	J
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	753	Y	J
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	546	Y	J
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	378	Y	J

**Table H-1: Evaluation for Chemicals Detected Lacking ESVs
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Chemical Name	CASRN	Result (mg/kg)	Detect Flag	Qualifier
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	331	Y	J-
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	Chlorine	7782-50-5	190	Y	
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	172	Y	
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	152	Y	J-
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	Chlorine	7782-50-5	57.5	Y	
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	32.6	Y	
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	Chlorine	7782-50-5	28.8	Y	J-
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	Chlorine	7782-50-5	26.2	Y	J
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	25.2	Y	
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	Chlorine	7782-50-5	18.3	Y	
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	Chlorine	7782-50-5	15.6	Y	J
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	14.3	Y	
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	14.2	Y	
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	Chlorine	7782-50-5	9.5	Y	J-
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	8.9	Y	J-
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	8.9	Y	
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	Chlorine	7782-50-5	8.7	Y	
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	Chlorine	7782-50-5	6.6	Y	
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	Chlorine	7782-50-5	4.1	N	U
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	Chlorine	7782-50-5	4.1	N	UJ
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	229	Y	J
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	36.6	Y	J
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	Nitrate (as N)	14797-55-8 N	19.4	Y	
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	13.7	Y	J-
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	10.6	Y	J-
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	10.6	Y	J-
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	9	Y	
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	8.3	Y	J-
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	8.1	Y	
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	7.2	Y	
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	6.2	Y	
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	5.5	Y	J-
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	5.3	Y	J-
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	5.3	Y	
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	3.5	Y	
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	Nitrate (as N)	14797-55-8 N	2.9	Y	J
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2.6	Y	J-
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2.6	Y	
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2.4	Y	
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2.2	Y	
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2.1	Y	
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	2	Y	
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	1.8	Y	
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	1.6	Y	
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	1.6	Y	J-
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	1.3	Y	J-
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.99	Y	
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.96	Y	
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	Nitrate (as N)	14797-55-8 N	0.83	Y	J
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.53	Y	J+
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.53	Y	J-
SA26-0.5	SA26-0.5	11/20/2006	General Chemistry	Nitrate (as N)	14797-55-8 N	0.53	Y	J
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.42	Y	
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	Nitrate (as N)	14797-55-8 N	0.33	Y	J-
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	2	Y	J
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	2	Y	J
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	U
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	ortho-Phosphate	11-36-9	1.7	N	UJ
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	ortho-Phosphate	11-36-9	1.7	Y	J

**Table H-1: Evaluation for Chemicals Detected Lacking ESVs
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Chemical Name	CASRN	Result (mg/kg)	Detect Flag	Qualifier
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	U
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	ortho-Phosphate	11-36-9	1.6	N	UJ
SA26-0.5	SA26-0.5	11/20/2006	General Chemistry	ortho-Phosphate	11-36-9	1.1	N	U
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	ortho-Phosphate	11-36-9	1.1	N	U
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	ortho-Phosphate	11-36-9	1	N	U
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	General Chemistry	Sulfate	14808-79-8	1450	Y	J
TSB-BR-04	TSB-BR-04-0	9/10/2007	General Chemistry	Sulfate	14808-79-8	536	Y	J
TSB-BR-02	TSB-BR-02-0	9/10/2007	General Chemistry	Sulfate	14808-79-8	487	Y	
TSB-AR-04	TSB-AR-04-0	9/5/2007	General Chemistry	Sulfate	14808-79-8	385	Y	J-
TSB-AR-06	TSB-AR-06-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	370	Y	J
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	General Chemistry	Sulfate	14808-79-8	201	Y	J
SA26-0.5	SA26-0.5	11/20/2006	General Chemistry	Sulfate	14808-79-8	183	Y	
TSB-AR-12	TSB-AR-12-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	170	Y	
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	Sulfate	14808-79-8	159	Y	
TSB-AR-05	TSB-AR-05-0	9/5/2007	General Chemistry	Sulfate	14808-79-8	125	Y	J-
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	General Chemistry	Sulfate	14808-79-8	116	Y	J-
TSB-AR-14	TSB-AR-14-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	112	Y	J-
TSB-AR-01	TSB-AR-01-0	9/5/2007	General Chemistry	Sulfate	14808-79-8	110	Y	J-
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	98.7	Y	
TSB-BR-06	TSB-BR-06-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	94.2	Y	
TSB-AR-08	TSB-AR-08-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	94.1	Y	J-
TSB-BR-03	TSB-BR-03-0	9/10/2007	General Chemistry	Sulfate	14808-79-8	78.8	Y	
TSB-AR-9	TSB-AR-9-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	73	Y	
TSB-AR-10	TSB-AR-10-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	52.2	Y	J-
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	43.4	Y	
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	38.9	Y	
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	38	Y	
TSB-AR-11	TSB-AR-11-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	36.3	Y	J-
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	36.2	Y	
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	General Chemistry	Sulfate	14808-79-8	30.8	Y	
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	General Chemistry	Sulfate	14808-79-8	29.4	Y	J-
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	Sulfate	14808-79-8	22.5	Y	
TSB-BR-05	TSB-BR-05-0	9/10/2007	General Chemistry	Sulfate	14808-79-8	19.5	Y	
TSB-AR-07	TSB-AR-07-0	9/5/2007	General Chemistry	Sulfate	14808-79-8	19.3	Y	J-
TSB-AR-3	TSB-AR-3-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	17.2	Y	
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	Sulfate	14808-79-8	15.2	Y	
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	General Chemistry	Sulfate	14808-79-8	11.7	Y	
TSB-AR-02	TSB-AR-02-0	9/5/2007	General Chemistry	Sulfate	14808-79-8	10.6	Y	J-
TSB-AR-13	TSB-AR-13-0	9/6/2007	General Chemistry	Sulfate	14808-79-8	9.1	Y	
TSB-AR-06	TSB-AR-06-0	9/7/2007	Metals	Sulfur	7704-34-9	1210	Y	
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	Metals	Sulfur	7704-34-9	1110	Y	
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	Metals	Sulfur	7704-34-9	1054	N	U
TSB-BR-02	TSB-BR-02-0	9/10/2007	Metals	Sulfur	7704-34-9	443	Y	J
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-01	TSB-AR-01-0	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-02	TSB-AR-02-0	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-04	TSB-AR-04-0	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-05	TSB-AR-05-0	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-07	TSB-AR-07-0	9/5/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-08	TSB-AR-08-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-10	TSB-AR-10-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-11	TSB-AR-11-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-12	TSB-AR-12-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-13	TSB-AR-13-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-14	TSB-AR-14-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-3	TSB-AR-3-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-AR-9	TSB-AR-9-0	9/6/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BR-03	TSB-BR-03-0	9/10/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BR-04	TSB-BR-04-0	9/10/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BR-05	TSB-BR-05-0	9/10/2007	Metals	Sulfur	7704-34-9	421.4	N	U
TSB-BR-06	TSB-BR-06-0	9/7/2007	Metals	Sulfur	7704-34-9	421.4	N	U
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	2,4-DB	94-82-6	0.06	Y	
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	Dicamba	1918-00-9	0.002	Y	J
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	MCPA (2-Methyl-4-chlorophenoxy acetic acid)	94-74-6	1200	Y	

**Table H-1: Evaluation for Chemicals Detected Lacking ESVs
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Chemical Name	CASRN	Result (mg/kg)	Detect Flag	Qualifier
PC-70_06	PC-70_06/23/1999	6/23/1999	Organic Halides	Organic Halides (total)	TOH	180	Y	J

Notes:

Non-detected compounds shown as the sample quantitation limit.

mg/kg = Milligram per kilogram
 N = Not detected
 OCPs = Organochlorine pesticides
 Y = Detected

APPENDIX H-2

EVALUATION OF SAMPLE QUANTITATION LIMITS FOR CHEMICALS NOT DETECTED WITH ESVs

Figure H-2a	Spatial Surface Soil Concentration Plot for Toxaphene using Conservative ESVs
Figure H-2b	Spatial Surface Soil Concentration Plot for Malathion using Conservative ESVs
Figure H-2c	Spatial Surface Soil Concentration Plot for Hexachlorocyclopentadiene using Conservative ESVs
Figure H-2d	Spatial Surface Soil Concentration Plot for Guthion using Conservative ESVs
Figure H-2e	Spatial Surface Soil Concentration Plot for Ethylene Glycol using Conservative ESVs
Figure H-2f	Spatial Surface Soil Concentration Plot for Parathion using Conservative ESVs
Figure H-2g	Spatial Surface Soil Concentration Plot for Benzyl Alcohol using Conservative ESVs
Figure H-2h	Spatial Surface Soil Concentration Plot for Heptachlor Epoxide using Conservative ESVs
Figure H-2i	Spatial Surface Soil Concentration Plot for Chlorpyrifos using Conservative ESVs
Figure H-2j	Spatial Surface Soil Concentration Plot for Hexachlorobutadiene using Conservative ESVs
Figure H-2k	Spatial Surface Soil Concentration Plot for Diazinon using Conservative ESVs
Figure H-2l	Spatial Surface Soil Concentration Plot for Bromomethane using Conservative ESVs
Figure H-2m	Spatial Surface Soil Concentration Plot for Benzoic Acid using Conservative ESVs
Figure H-2n	Spatial Surface Soil Concentration Plot for Chlordane (total) using Conservative ESVs
Figure H-2o	Spatial Surface Soil Concentration Plot for Endosulfan Sulfate using Conservative ESVs
Figure H-2p	Spatial Surface Soil Concentration Plot for Endosulfan using Conservative ESVs
Figure H-2q	Spatial Surface Soil Concentration Plot for Methoxychlor using Conservative ESVs
Figure H-2r	Spatial Surface Soil Concentration Plot for 3,3'-Dichlorobenzidine using Conservative ESVs
Figure H-2s	Spatial Surface Soil Concentration Plot for Diethylphthalate using Conservative ESVs
Figure H-2t	Spatial Surface Soil Concentration Plot for 2,4-Dimethylphenol using Conservative ESVs
Figure H-2u	Spatial Surface Soil Concentration Plot for Hexachloroethane using Conservative ESVs
Figure H-2v	Spatial Surface Soil Concentration Plot for 2-Nitroaniline using Conservative ESVs
Figure H-2w	Spatial Surface Soil Concentration Plot for 2,4-Dinitrophenol using Conservative ESVs
Table H-2a	Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Table H-2b	Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2
Table H-2c	Summary of Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2



Refined Screening Level Ecological Risk Assessment
for Operable Unit-2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

Table J-2g Uncertainties Regarding Chemicals Not Detected with SQLs Greater than
ESVs: Operations Area









Refined Screening Level Ecological Risk Assessment
for Operable Unit-2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

SPATIAL PLOT FIGURES
NONDETECTED CHEMICALS WITH SAMPLE QUANTITATION LIMITS >
CONSERVATIVE ESVs

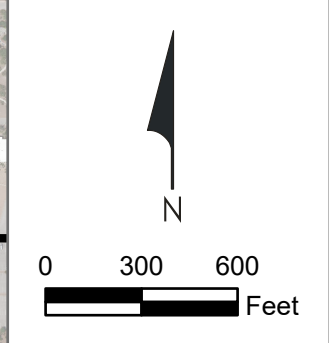
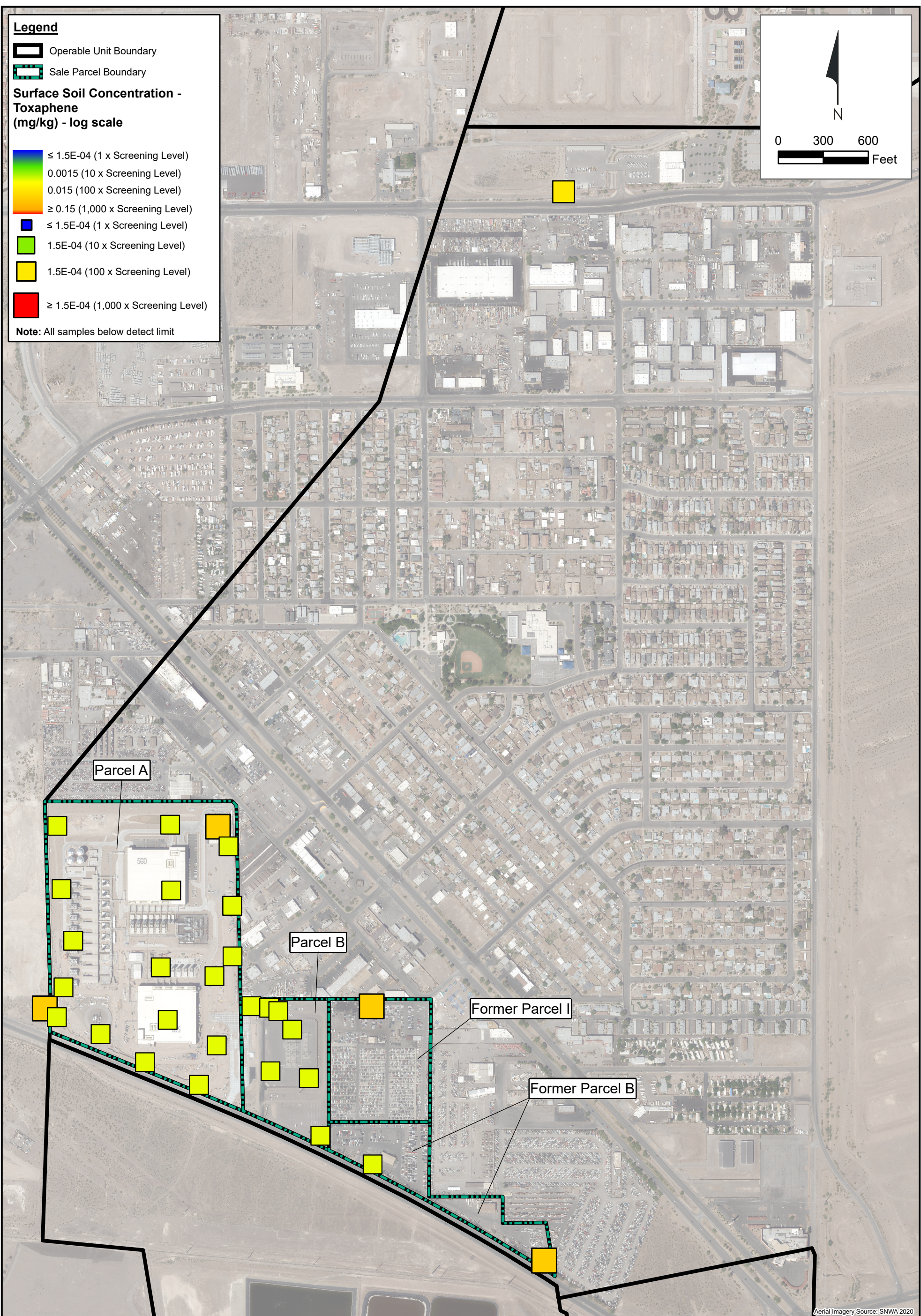
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Toxaphene (mg/kg) - log scale

-  $\leq 1.5E-04$ (1 x Screening Level)
-  0.0015 (10 x Screening Level)
-  0.015 (100 x Screening Level)
-  ≥ 0.15 (1,000 x Screening Level)
-  $\leq 1.5E-04$ (1 x Screening Level)
-  $1.5E-04$ (10 x Screening Level)
-  $1.5E-04$ (100 x Screening Level)
-  $\geq 1.5E-04$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_2.aprx\Figure H-2a Toxaphene

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Toxaphene using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2a





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:





Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

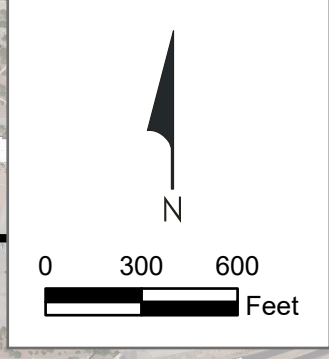
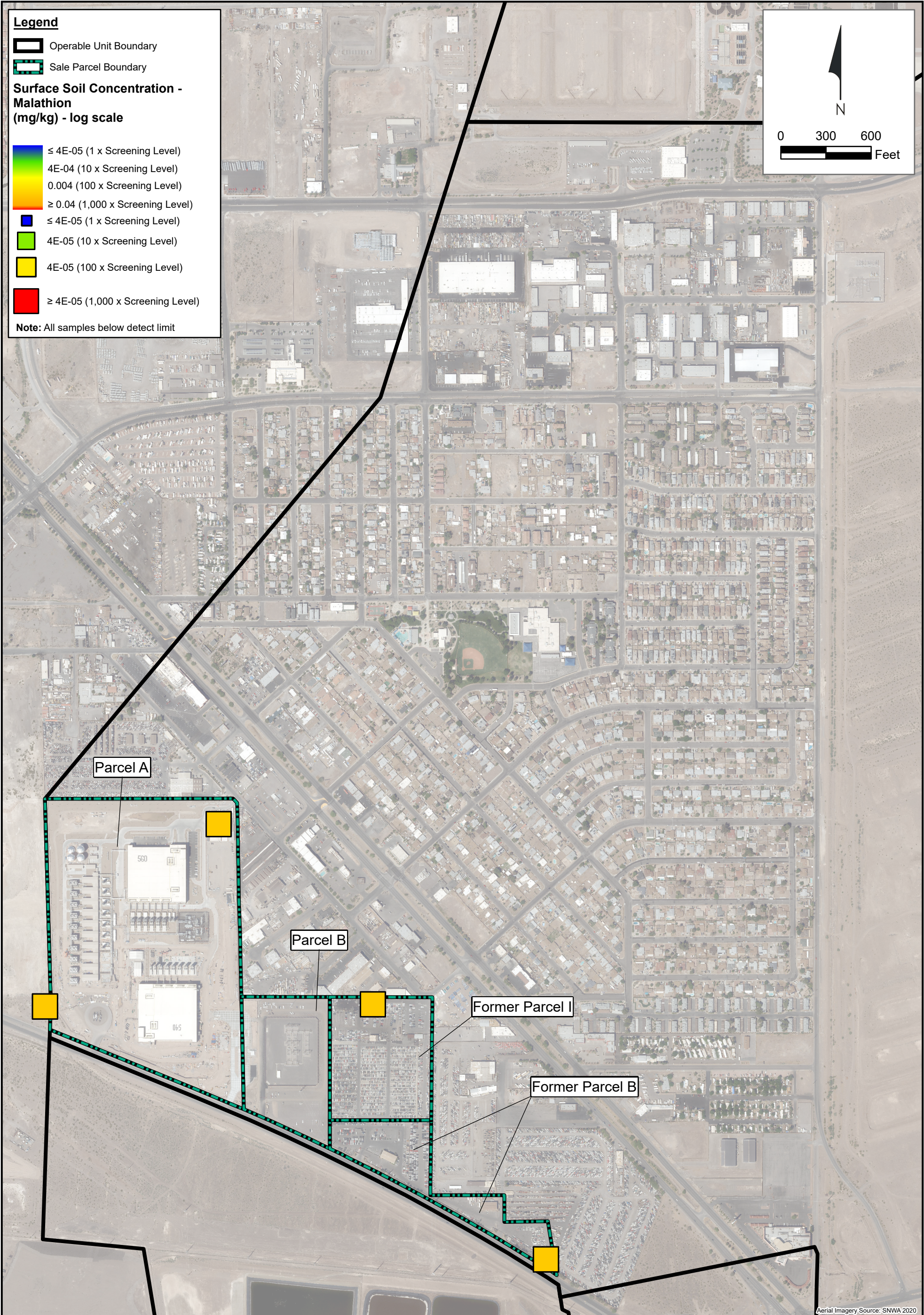
Surface Soil Concentration - Malathion (mg/kg) - log scale

-  $\leq 4E-05$ (1 x Screening Level)
-  $4E-04$ (10 x Screening Level)
-  0.004 (100 x Screening Level)
-  ≥ 0.04 (1,000 x Screening Level)

ESVs

-  $\leq 4E-05$ (1 x Screening Level)
-  $4E-05$ (10 x Screening Level)
-  $4E-05$ (100 x Screening Level)
-  $\geq 4E-05$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2b Malathion

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Malathion using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2b





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

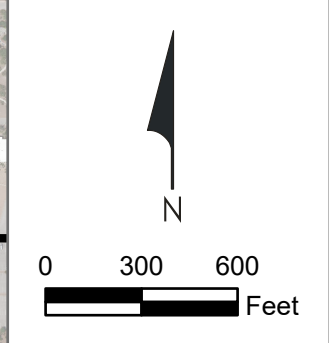
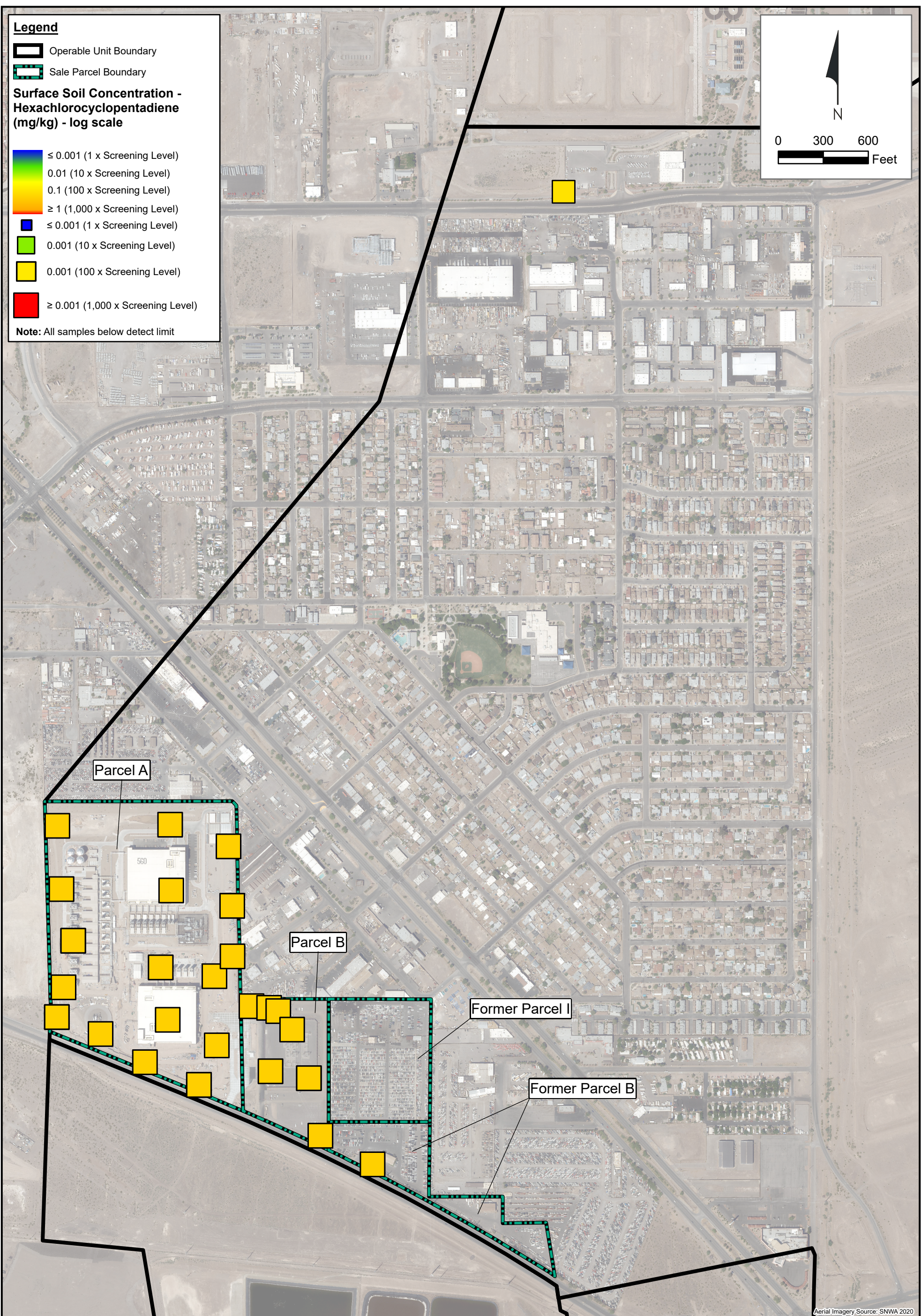
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Hexachlorocyclopentadiene (mg/kg) - log scale

-  ≤ 0.001 (1 x Screening Level)
-  0.01 (10 x Screening Level)
-  0.1 (100 x Screening Level)
-  ≥ 1 (1,000 x Screening Level)

-  ≤ 0.001 (1 x Screening Level)
-  0.001 (10 x Screening Level)
-  0.001 (100 x Screening Level)
-  ≥ 0.001 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-U-2\figures_2.aprx\Figure H-2c Hexachlorocyclopentadiene

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Hexachlorocyclopentadiene using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2c





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:





Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

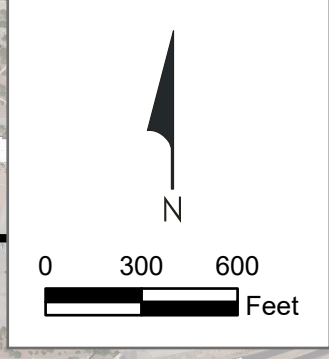
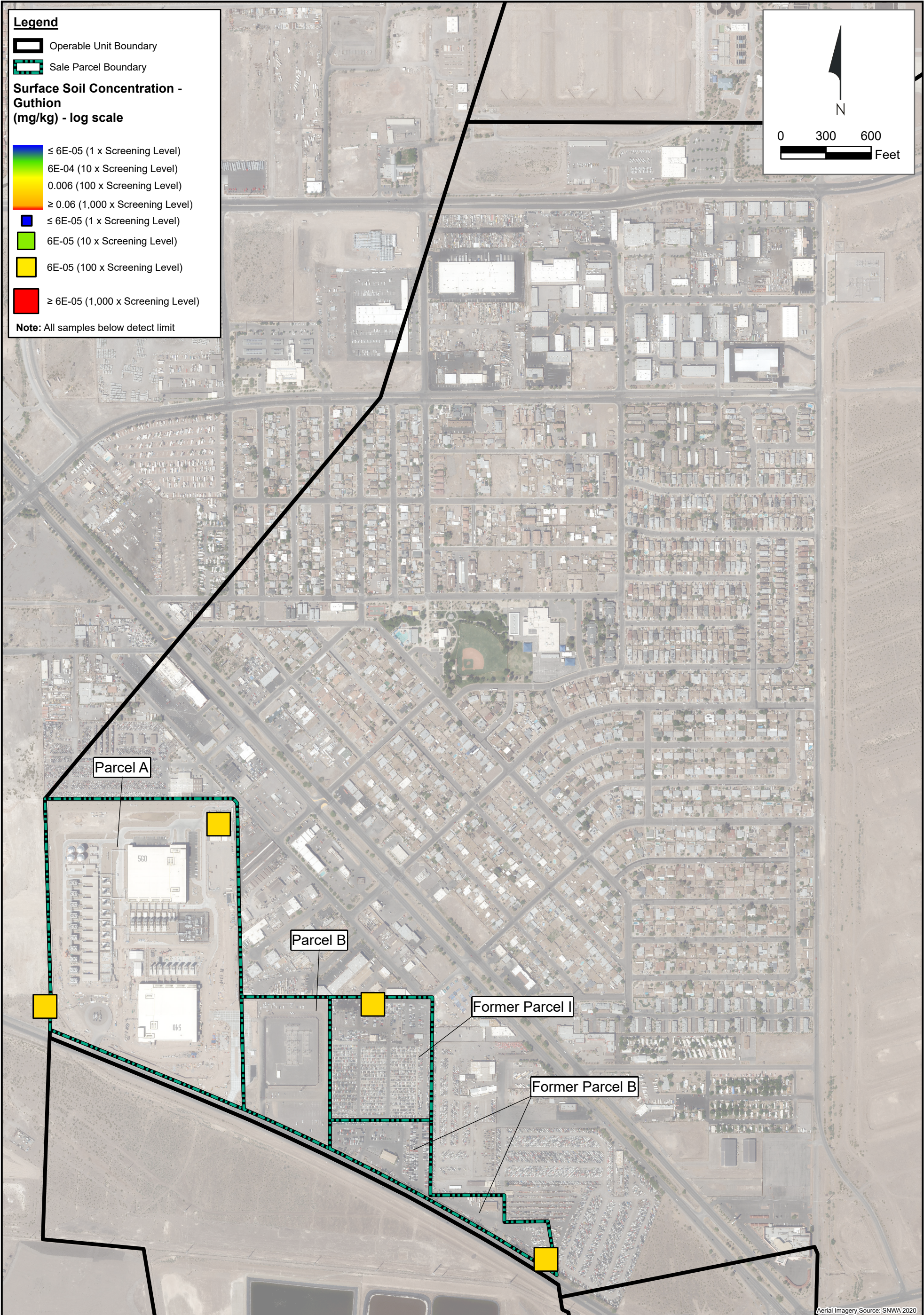
Surface Soil Concentration - Guthion (mg/kg) - log scale

-  $\leq 6E-05$ (1 x Screening Level)
-  $6E-04$ (10 x Screening Level)
-  0.006 (100 x Screening Level)
-  ≥ 0.06 (1,000 x Screening Level)

ESVs

-  $\leq 6E-05$ (1 x Screening Level)
-  $6E-05$ (10 x Screening Level)
-  $6E-05$ (100 x Screening Level)
-  $\geq 6E-05$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_2.aprx\Figure H-2d Guthion

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Guthion using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2d





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

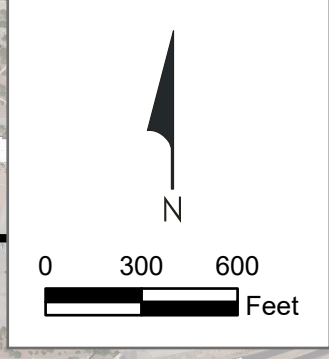
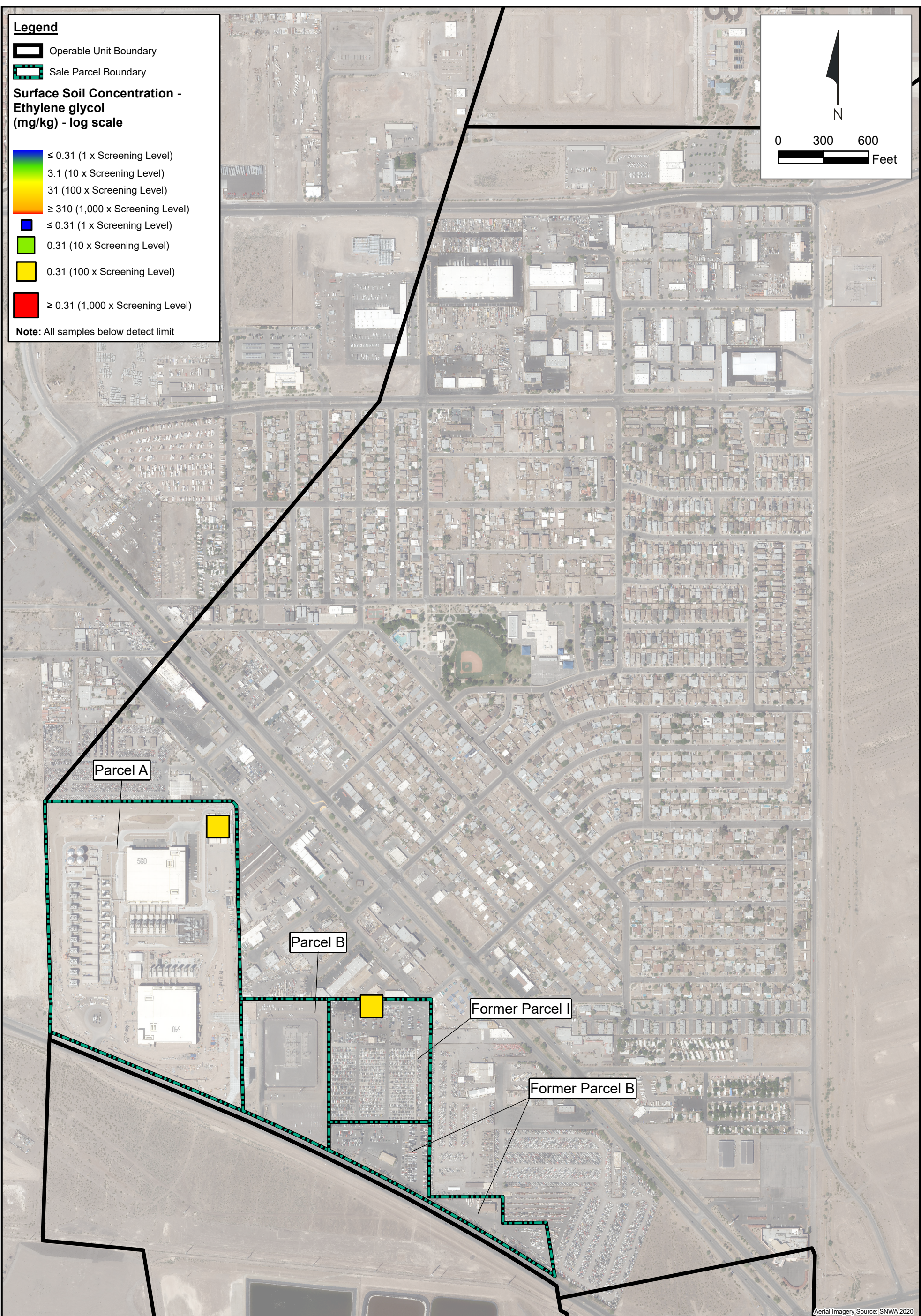
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Ethylene glycol (mg/kg) - log scale

-  ≤ 0.31 (1 x Screening Level)
-  3.1 (10 x Screening Level)
-  31 (100 x Screening Level)
-  ≥ 310 (1,000 x Screening Level)

-  ≤ 0.31 (1 x Screening Level)
-  0.31 (10 x Screening Level)
-  0.31 (100 x Screening Level)
-  ≥ 0.31 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_2.aprx\Figure H-2e Ethylene glycol

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Ethylene glycol using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2e









Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

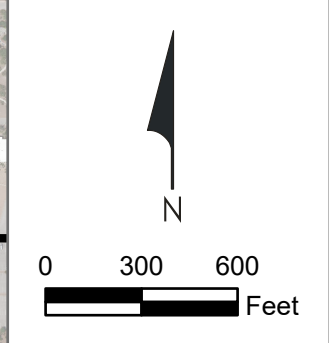
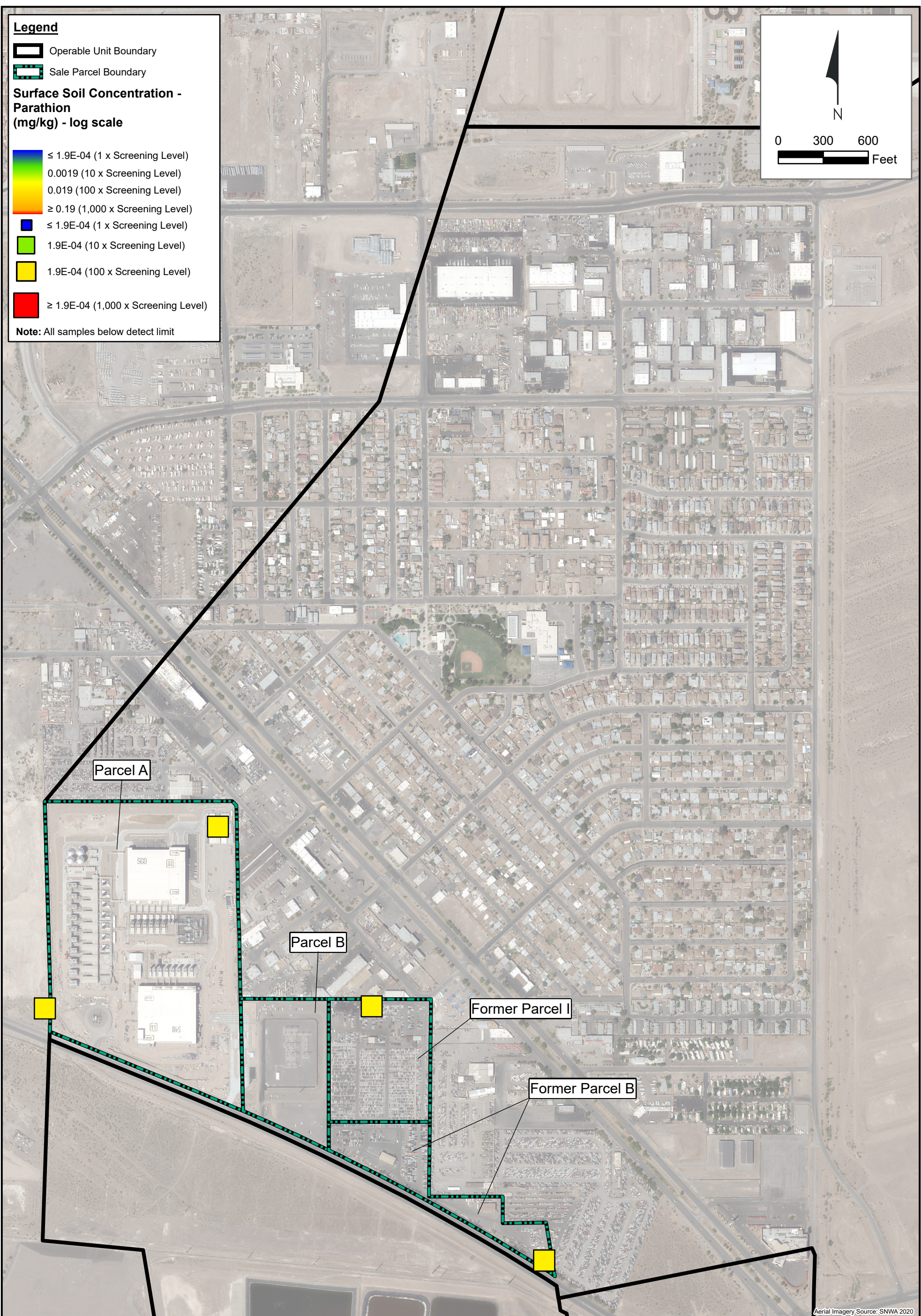
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Parathion (mg/kg) - log scale

-  $\leq 1.9E-04$ (1 x Screening Level)
-  0.0019 (10 x Screening Level)
-  0.019 (100 x Screening Level)
-  ≥ 0.19 (1,000 x Screening Level)
-  $\leq 1.9E-04$ (1 x Screening Level)
-  $1.9E-04$ (10 x Screening Level)
-  $1.9E-04$ (100 x Screening Level)
-  $\geq 1.9E-04$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2f Parathion

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Parathion using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2f





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

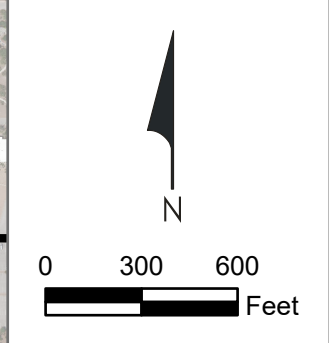
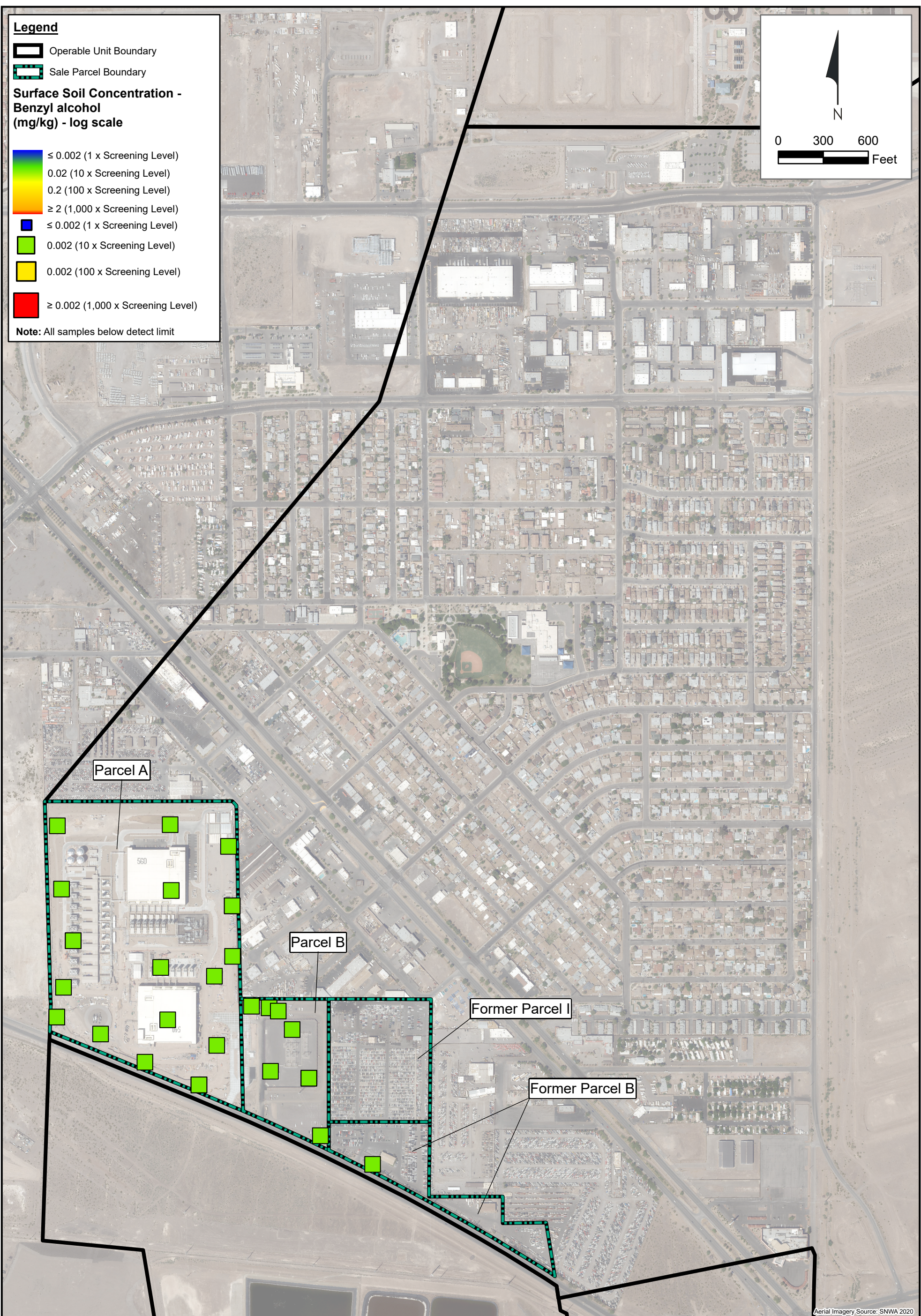
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Benzyl alcohol (mg/kg) - log scale

-  ≤ 0.002 (1 x Screening Level)
-  0.02 (10 x Screening Level)
-  0.2 (100 x Screening Level)
-  ≥ 2 (1,000 x Screening Level)

-  ≤ 0.002 (1 x Screening Level)
-  0.002 (10 x Screening Level)
-  0.002 (100 x Screening Level)
-  ≥ 0.002 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2g Benzyl alcohol

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Benzyl alcohol using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2g





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

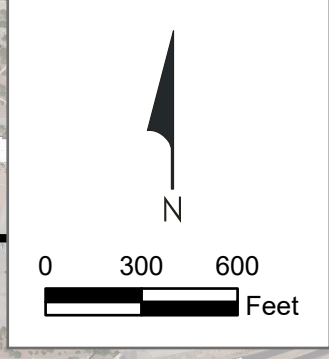
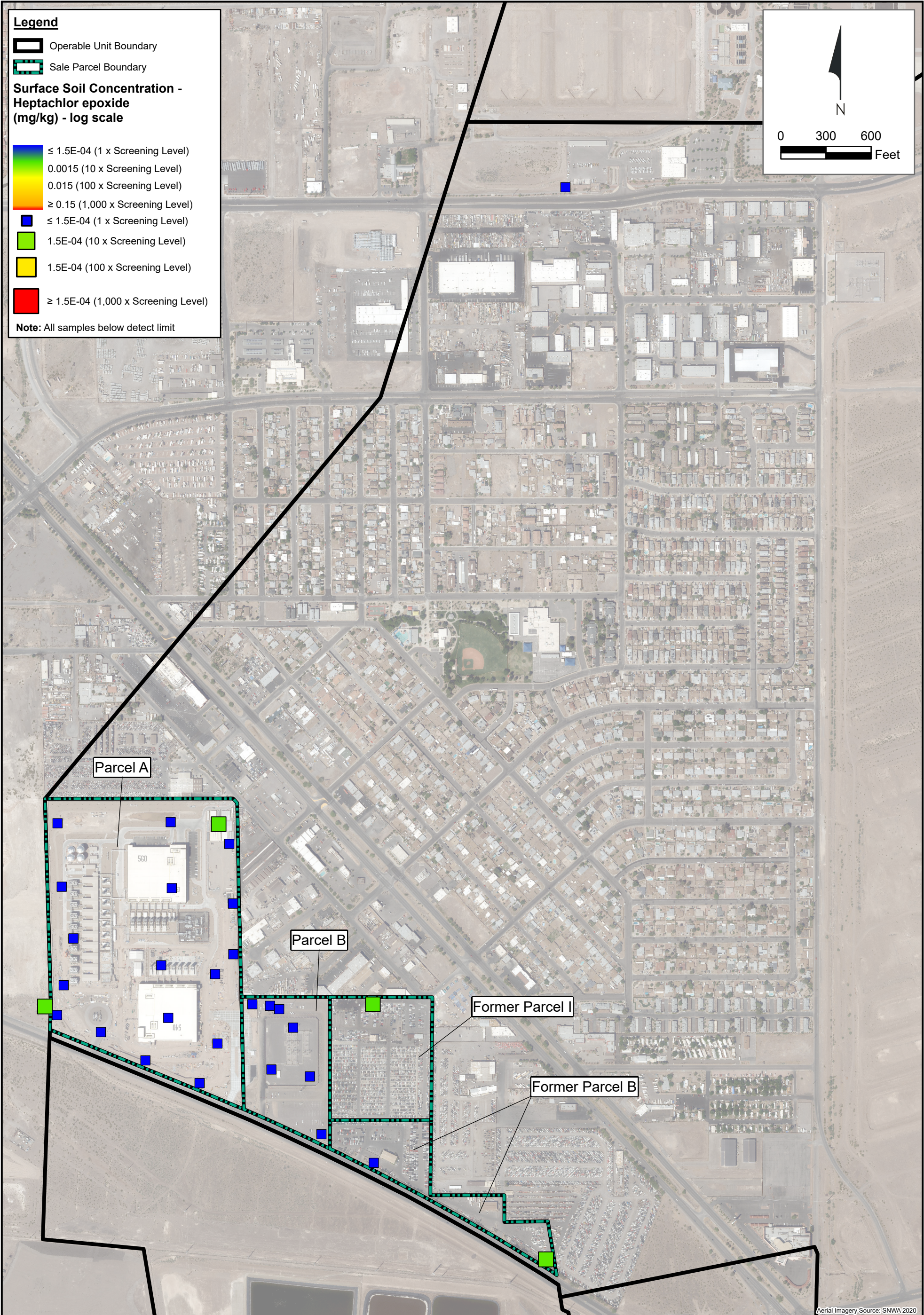
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Heptachlor epoxide (mg/kg) - log scale

-  $\leq 1.5E-04$ (1 x Screening Level)
-  0.0015 (10 x Screening Level)
-  0.015 (100 x Screening Level)
-  ≥ 0.15 (1,000 x Screening Level)

-  $\leq 1.5E-04$ (1 x Screening Level)
-  1.5E-04 (10 x Screening Level)
-  1.5E-04 (100 x Screening Level)
-  $\geq 1.5E-04$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-U-2\figures_2.aprx\Figure H-2h Heptachlor epoxide

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Heptachlor epoxide using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2h

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

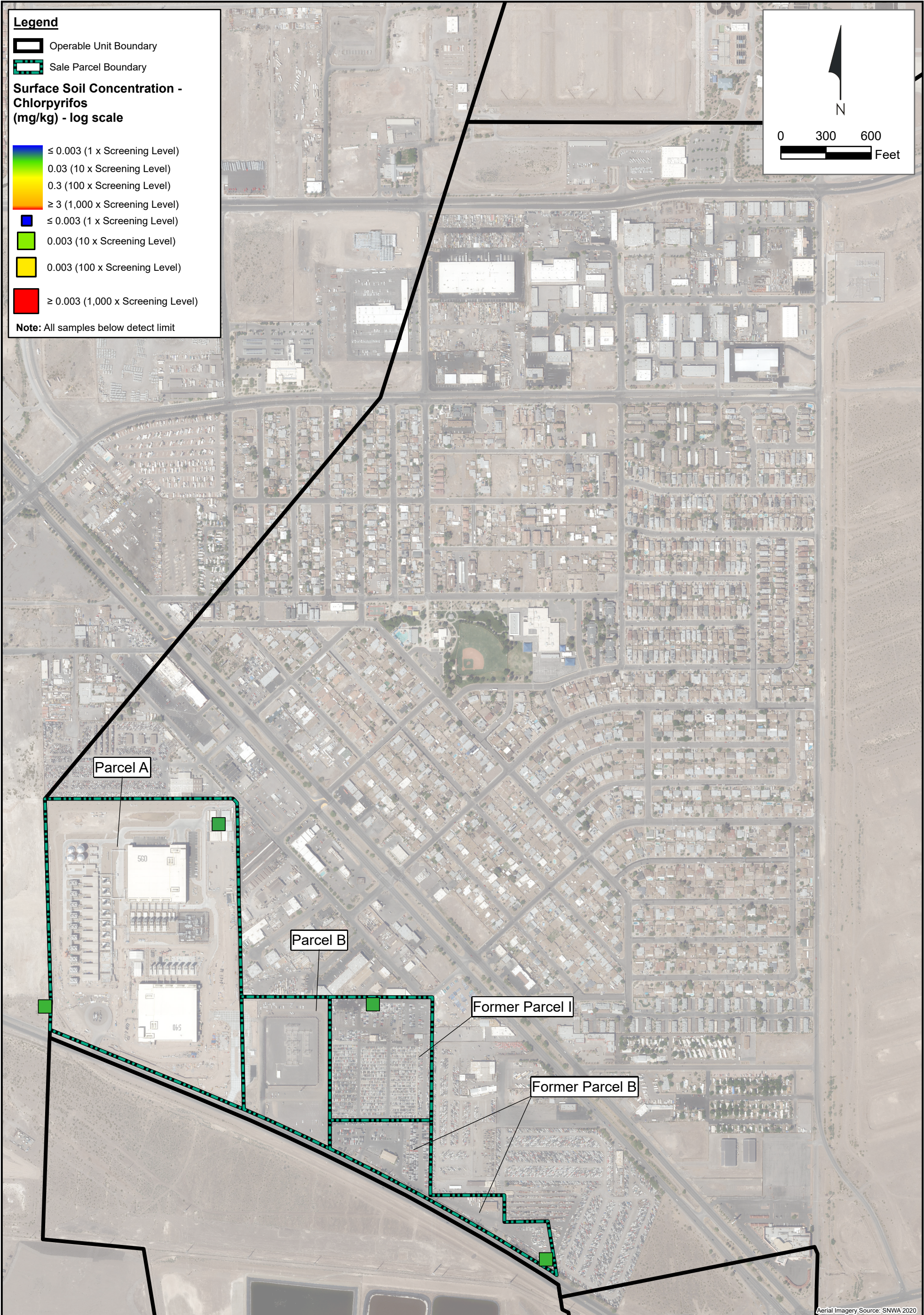
Legend

- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Chlorpyrifos (mg/kg) - log scale

- ≤ 0.003 (1 x Screening Level)
- 0.03 (10 x Screening Level)
- 0.3 (100 x Screening Level)
- ≥ 3 (1,000 x Screening Level)

Note: All samples below detect limit



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2i Chlorpyrifos

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Chlorpyrifos using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2i





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

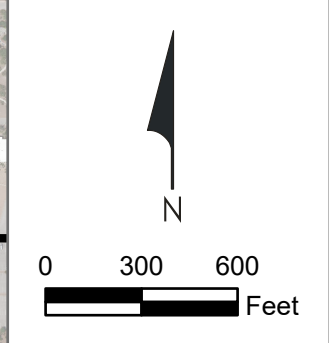
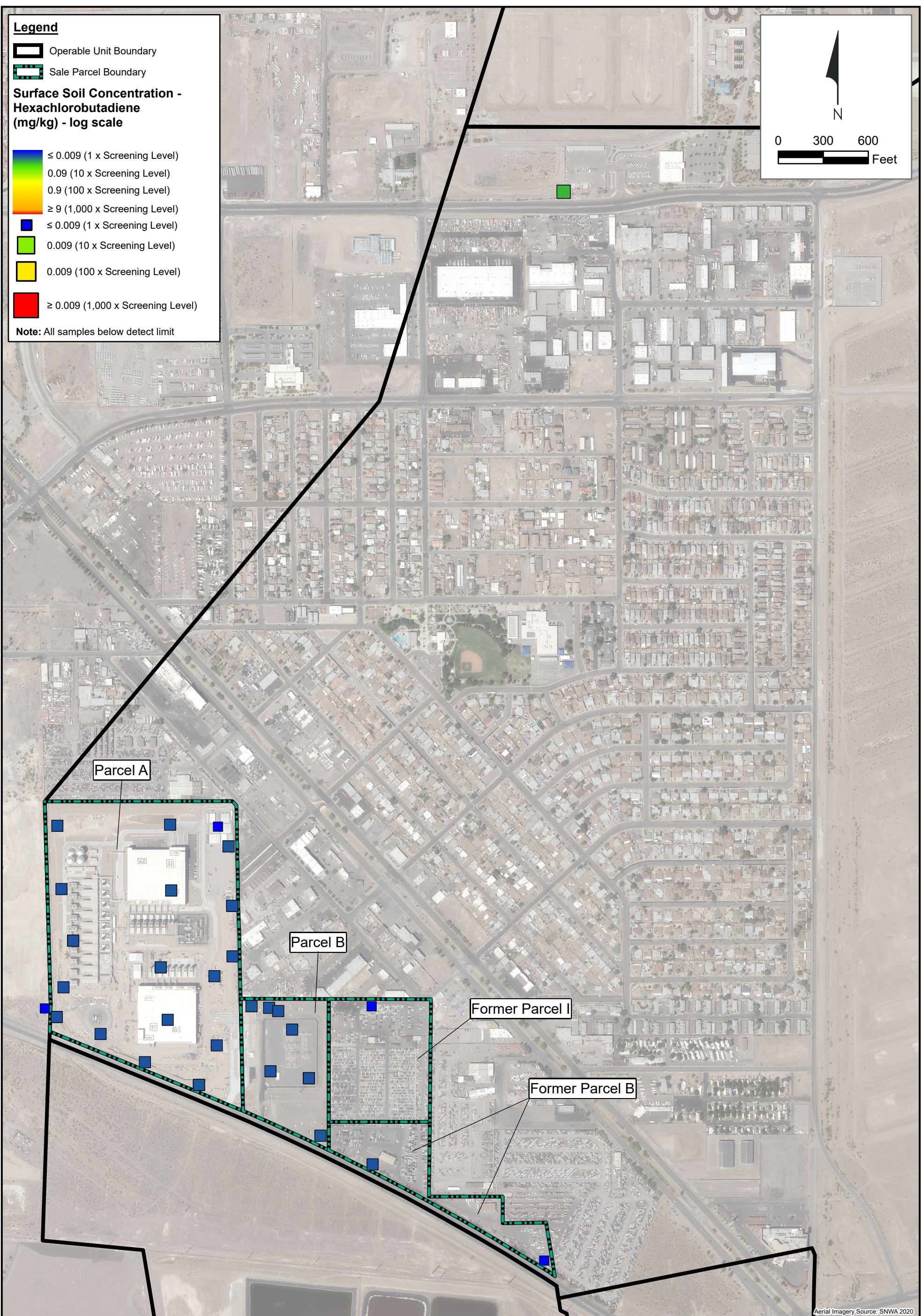
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Hexachlorobutadiene (mg/kg) - log scale

-  ≤ 0.009 (1 x Screening Level)
-  0.09 (10 x Screening Level)
-  0.9 (100 x Screening Level)
-  ≥ 9 (1,000 x Screening Level)

-  ≤ 0.009 (1 x Screening Level)
-  0.009 (10 x Screening Level)
-  0.009 (100 x Screening Level)
-  ≥ 0.009 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2\ Hexachlorobutadiene

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Hexachlorobutadiene using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2j

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

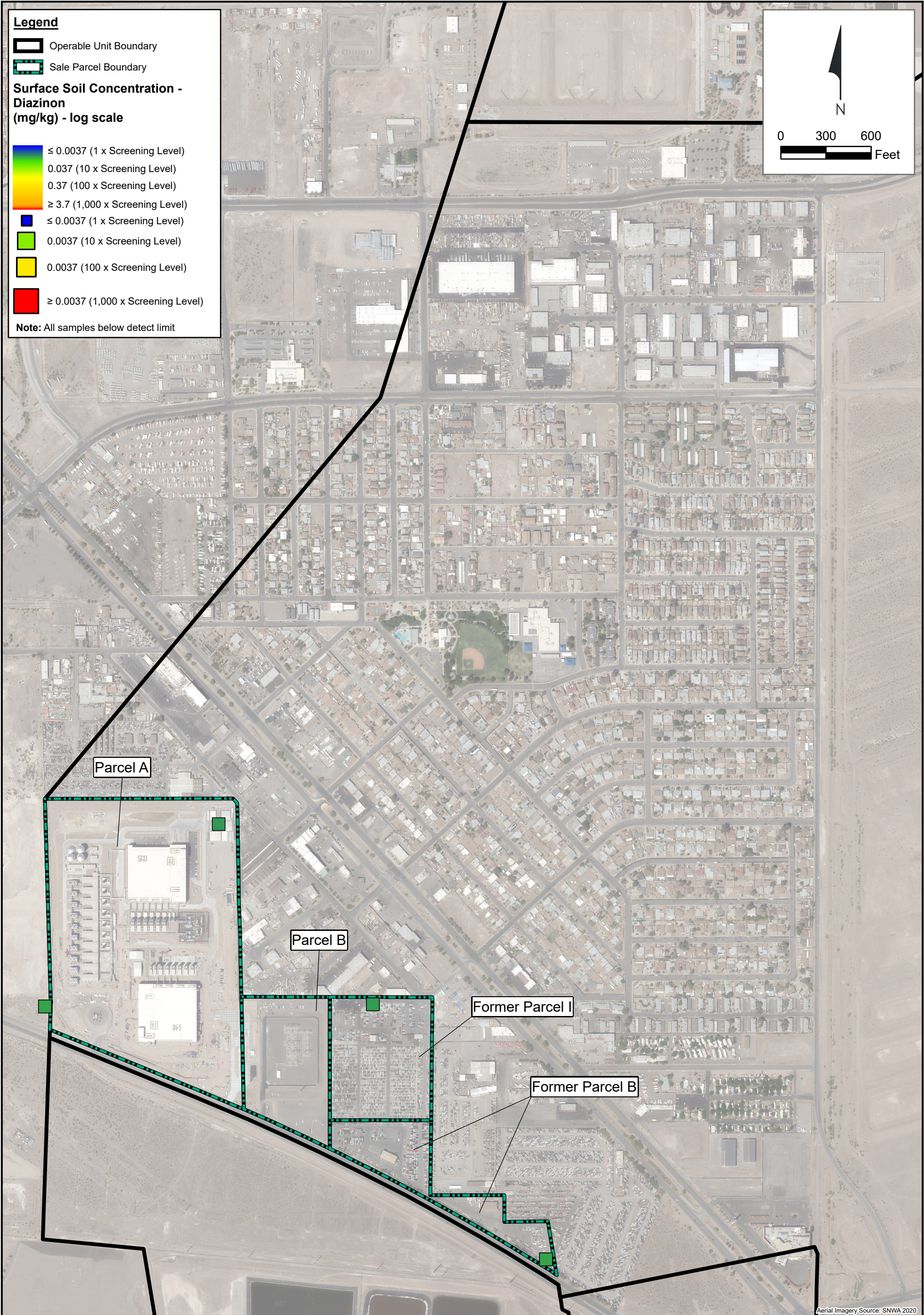
Legend

- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Diazinon (mg/kg) - log scale

- ≤ 0.0037 (1 x Screening Level)
- 0.037 (10 x Screening Level)
- 0.37 (100 x Screening Level)
- ≥ 3.7 (1,000 x Screening Level)

Note: All samples below detect limit



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2k Diazinon

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Diazinon using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2k





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

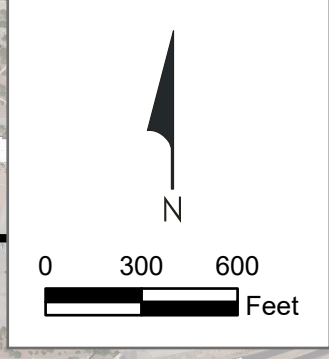
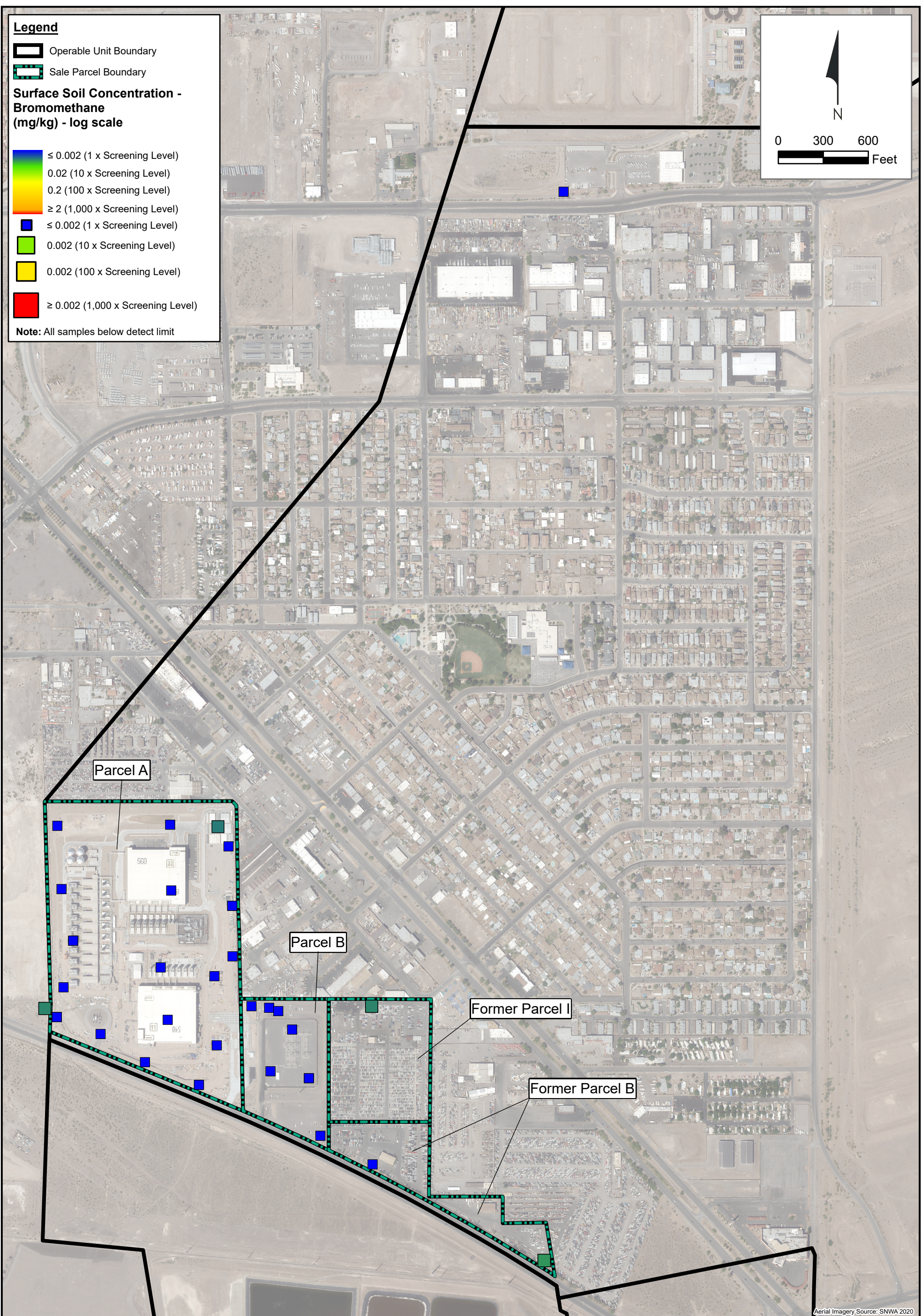
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Bromomethane (mg/kg) - log scale

-  ≤ 0.002 (1 x Screening Level)
-  0.02 (10 x Screening Level)
-  0.2 (100 x Screening Level)
-  ≥ 2 (1,000 x Screening Level)

-  ≤ 0.002 (1 x Screening Level)
-  0.002 (10 x Screening Level)
-  0.002 (100 x Screening Level)
-  ≥ 0.002 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-21 Bromomethane

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Bromomethane using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-21

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

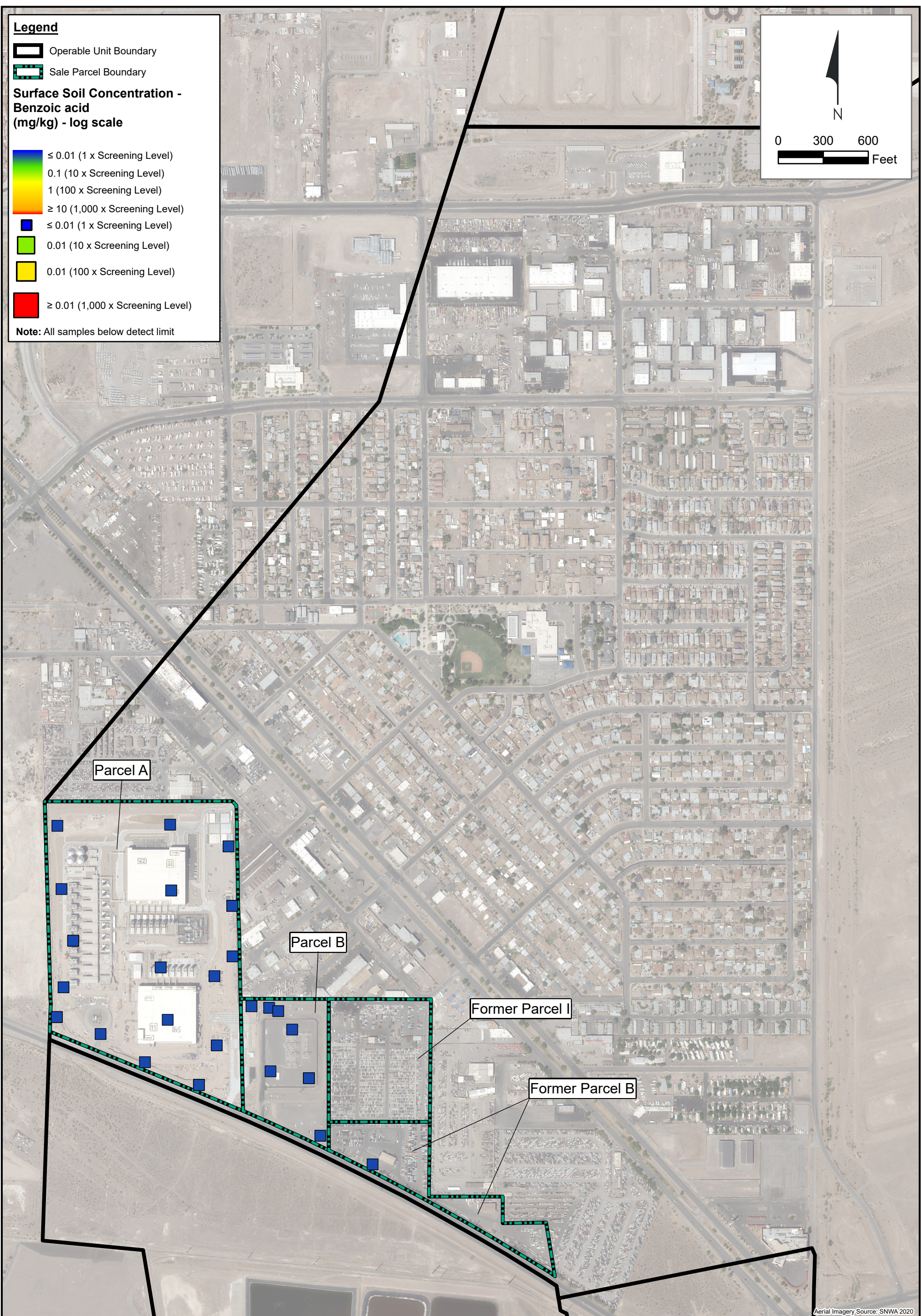
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Benzoic acid (mg/kg) - log scale

- ≤ 0.01 (1 x Screening Level)
- 0.1 (10 x Screening Level)
- 1 (100 x Screening Level)
- ≥ 10 (1,000 x Screening Level)

- ≤ 0.01 (1 x Screening Level)
- 0.01 (10 x Screening Level)
- 0.01 (100 x Screening Level)
- ≥ 0.01 (1,000 x Screening Level)

Note: All samples below detect limit



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2m Benzoic acid

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Benzoic acid using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2m





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

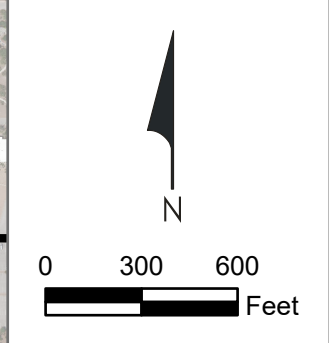
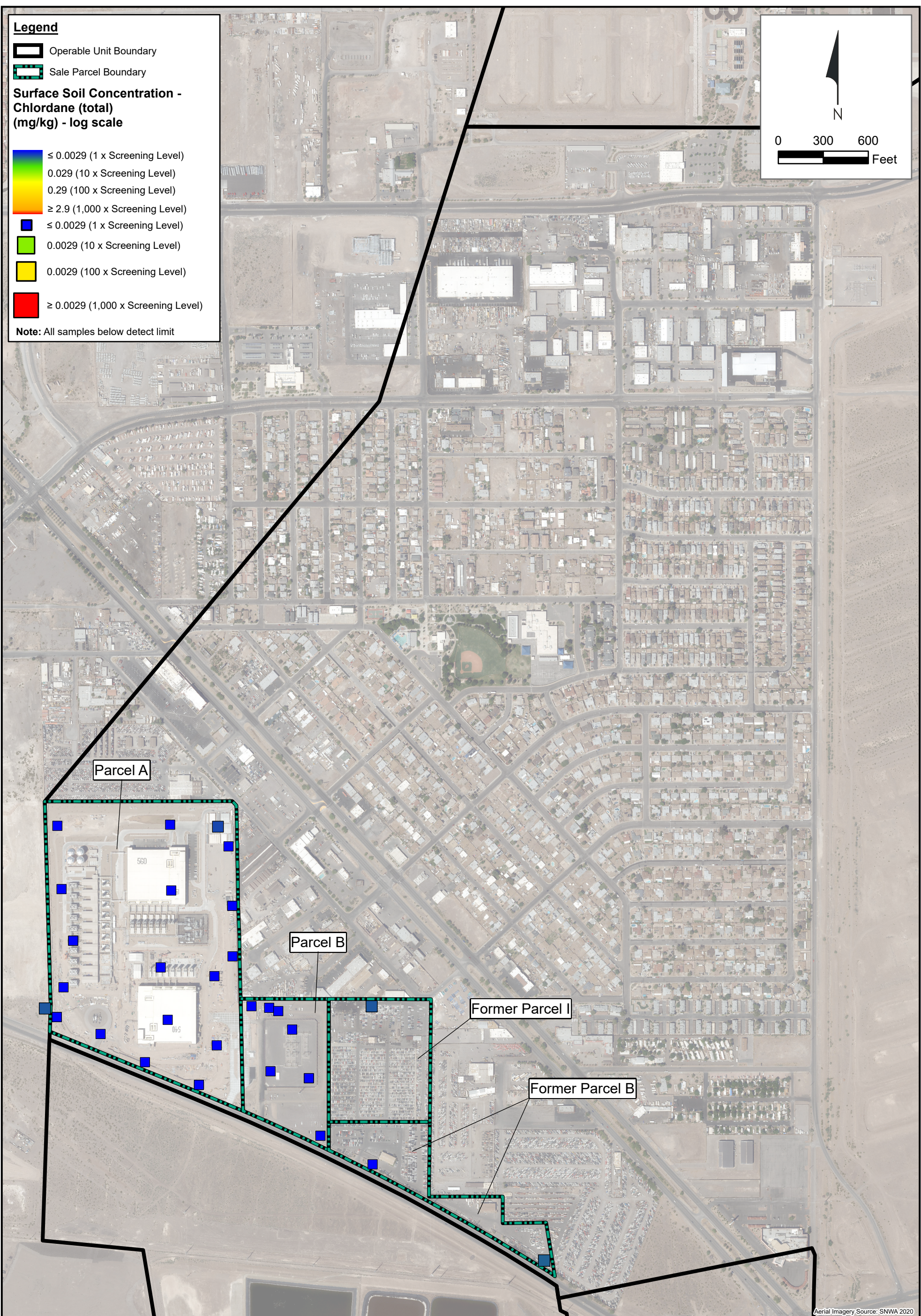
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Chlordane (total) (mg/kg) - log scale

-  ≤ 0.0029 (1 x Screening Level)
-  0.029 (10 x Screening Level)
-  0.29 (100 x Screening Level)
-  ≥ 2.9 (1,000 x Screening Level)

-  ≤ 0.0029 (1 x Screening Level)
-  0.0029 (10 x Screening Level)
-  0.0029 (100 x Screening Level)
-  ≥ 0.0029 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2n Chlordane (total)

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Chlordane (total) using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2n





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

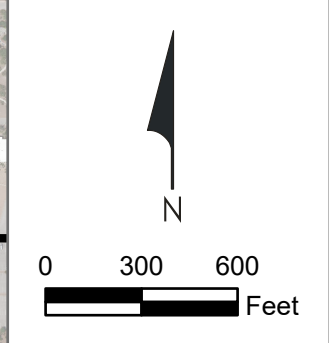
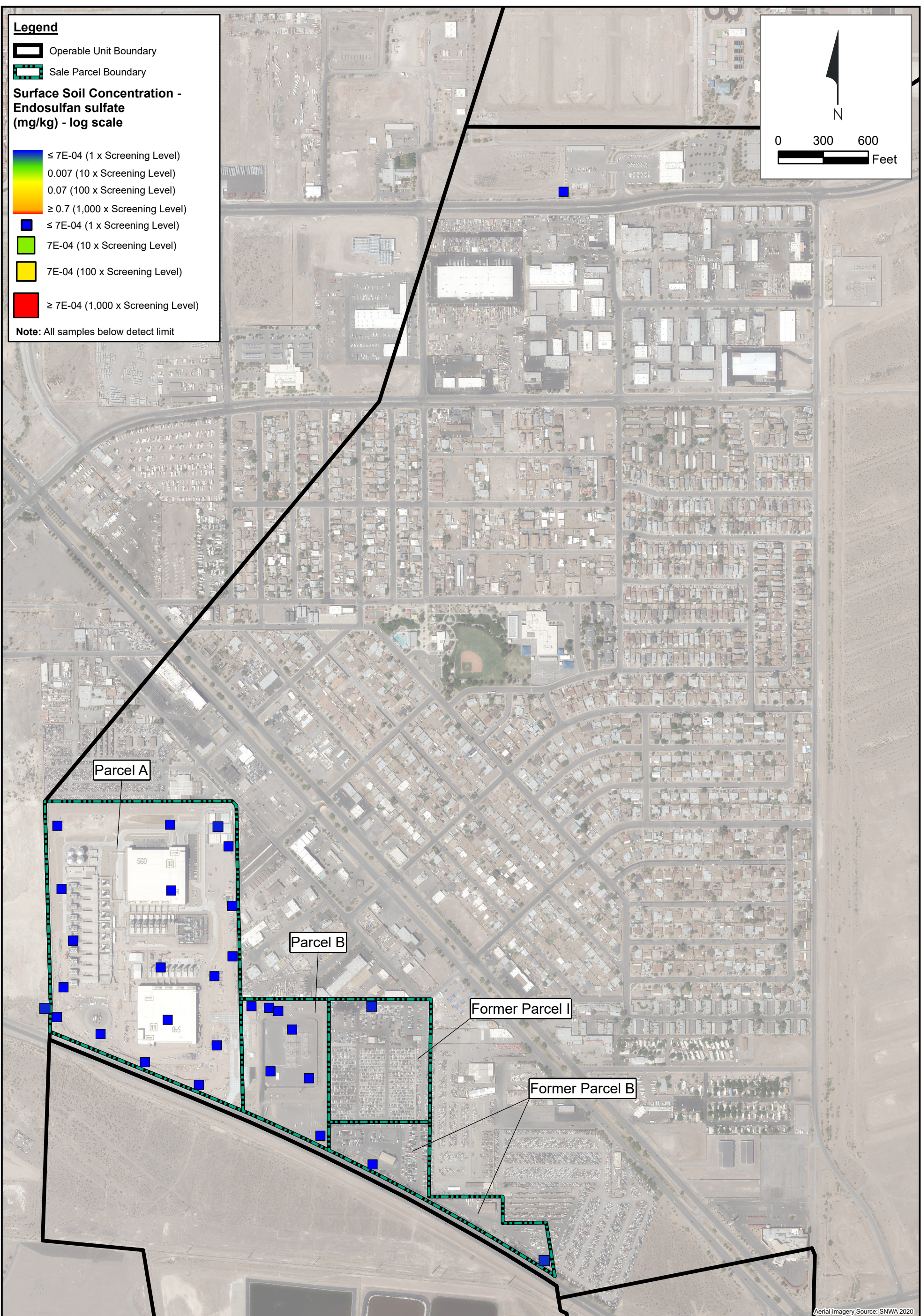
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Endosulfan sulfate (mg/kg) - log scale

-  $\leq 7E-04$ (1 x Screening Level)
-  0.007 (10 x Screening Level)
-  0.07 (100 x Screening Level)
-  ≥ 0.7 (1,000 x Screening Level)

-  $\leq 7E-04$ (1 x Screening Level)
-  $7E-04$ (10 x Screening Level)
-  $7E-04$ (100 x Screening Level)
-  $\geq 7E-04$ (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_2.aprx\Figure H-2o Endosulfan sulfate

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Endosulfan sulfate using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2o

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

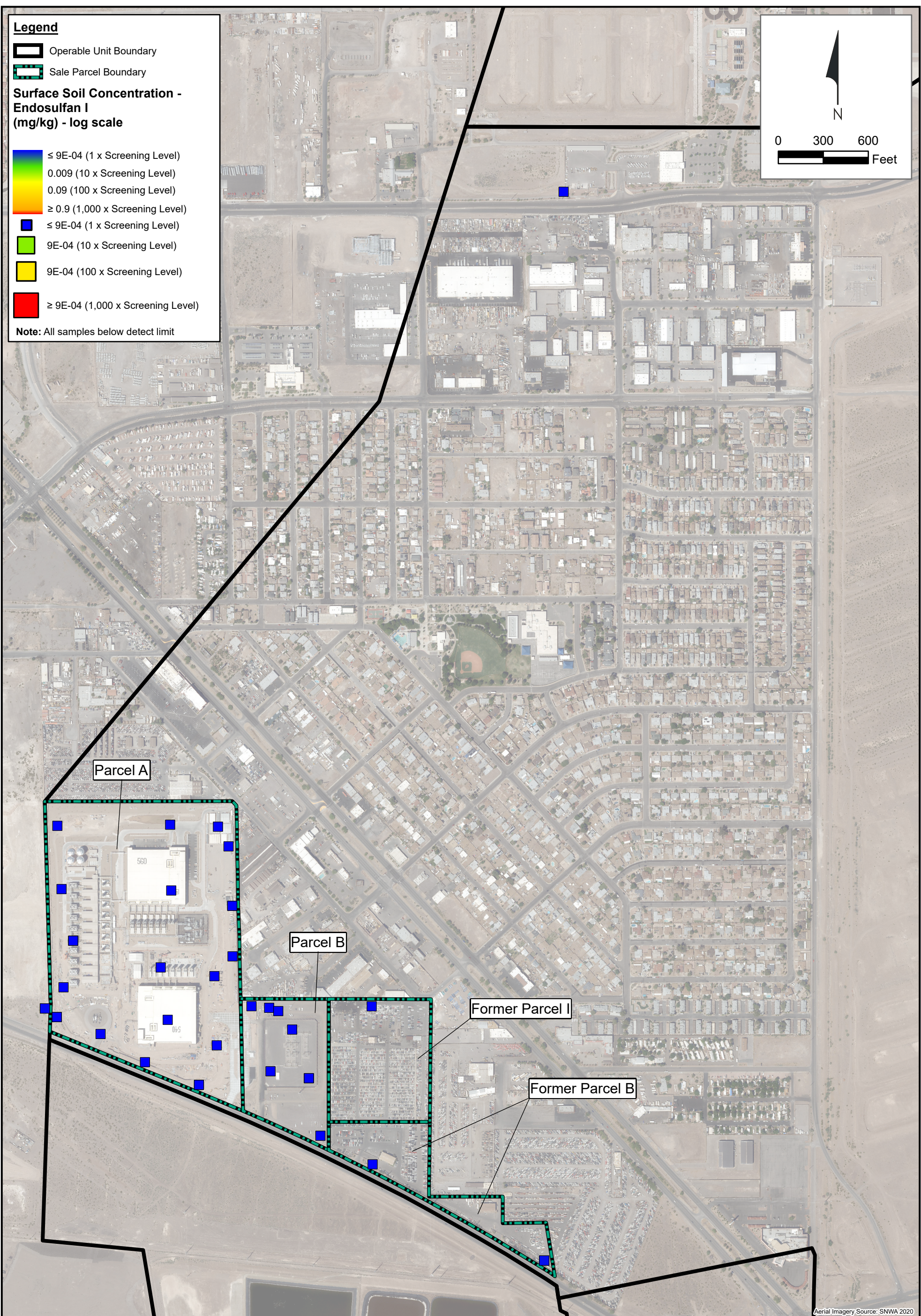
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - Endosulfan I (mg/kg) - log scale

- ≤ 9E-04 (1 x Screening Level)
- 0.009 (10 x Screening Level)
- 0.09 (100 x Screening Level)
- ≥ 0.9 (1,000 x Screening Level)

- Blue square: ≤ 9E-04 (1 x Screening Level)
- Green square: 9E-04 (10 x Screening Level)
- Yellow square: 9E-04 (100 x Screening Level)
- Red square: ≥ 9E-04 (1,000 x Screening Level)

Note: All samples below detect limit



Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2p_Endosulfan I

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Endosulfan I using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2p





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

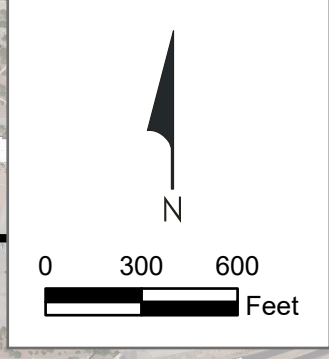
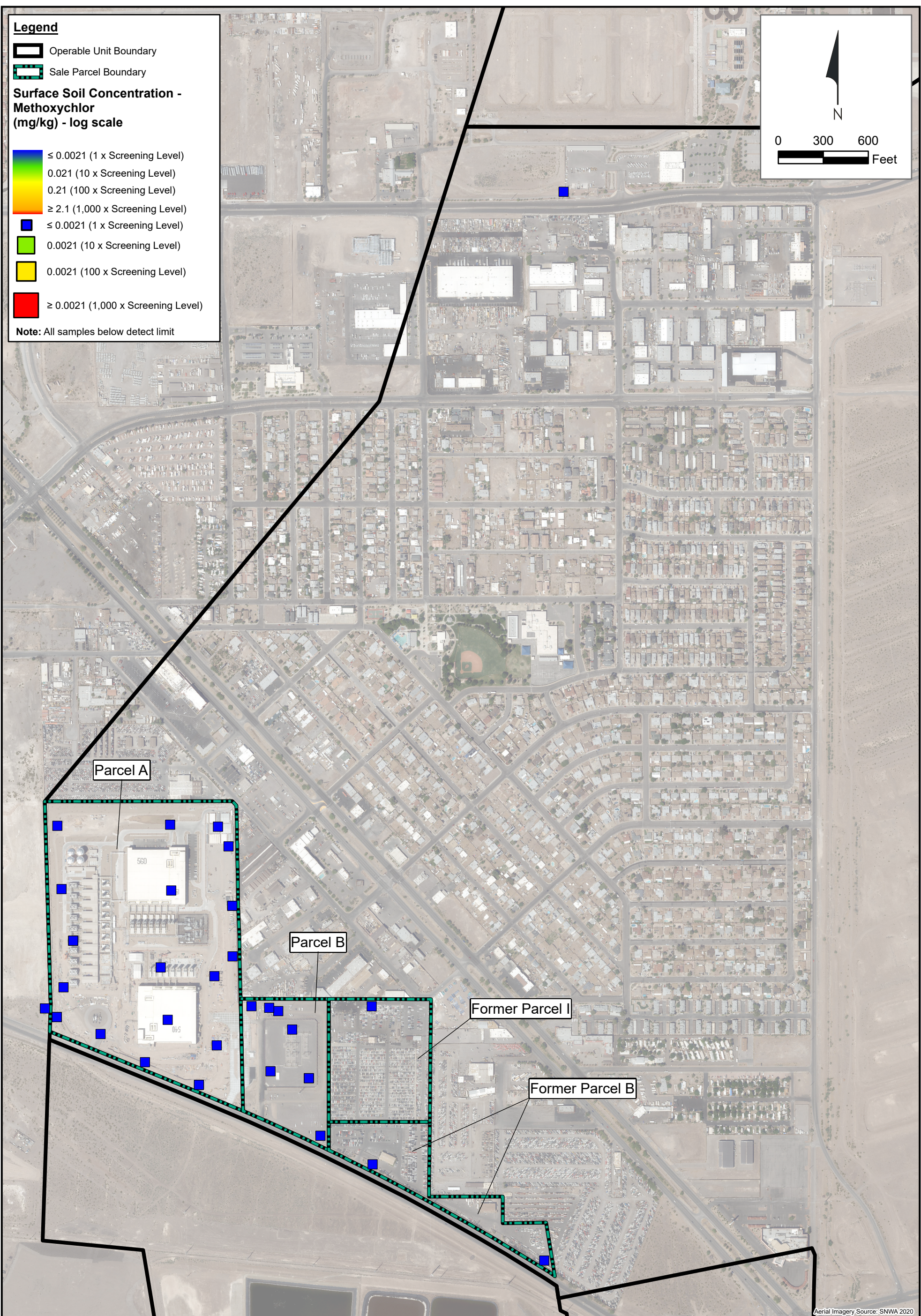
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Methoxychlor (mg/kg) - log scale

-  ≤ 0.0021 (1 x Screening Level)
-  0.021 (10 x Screening Level)
-  0.21 (100 x Screening Level)
-  ≥ 2.1 (1,000 x Screening Level)

-  ≤ 0.0021 (1 x Screening Level)
-  0.0021 (10 x Screening Level)
-  0.0021 (100 x Screening Level)
-  ≥ 0.0021 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2q_Methoxychlor

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for Methoxychlor using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2q

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

Legend

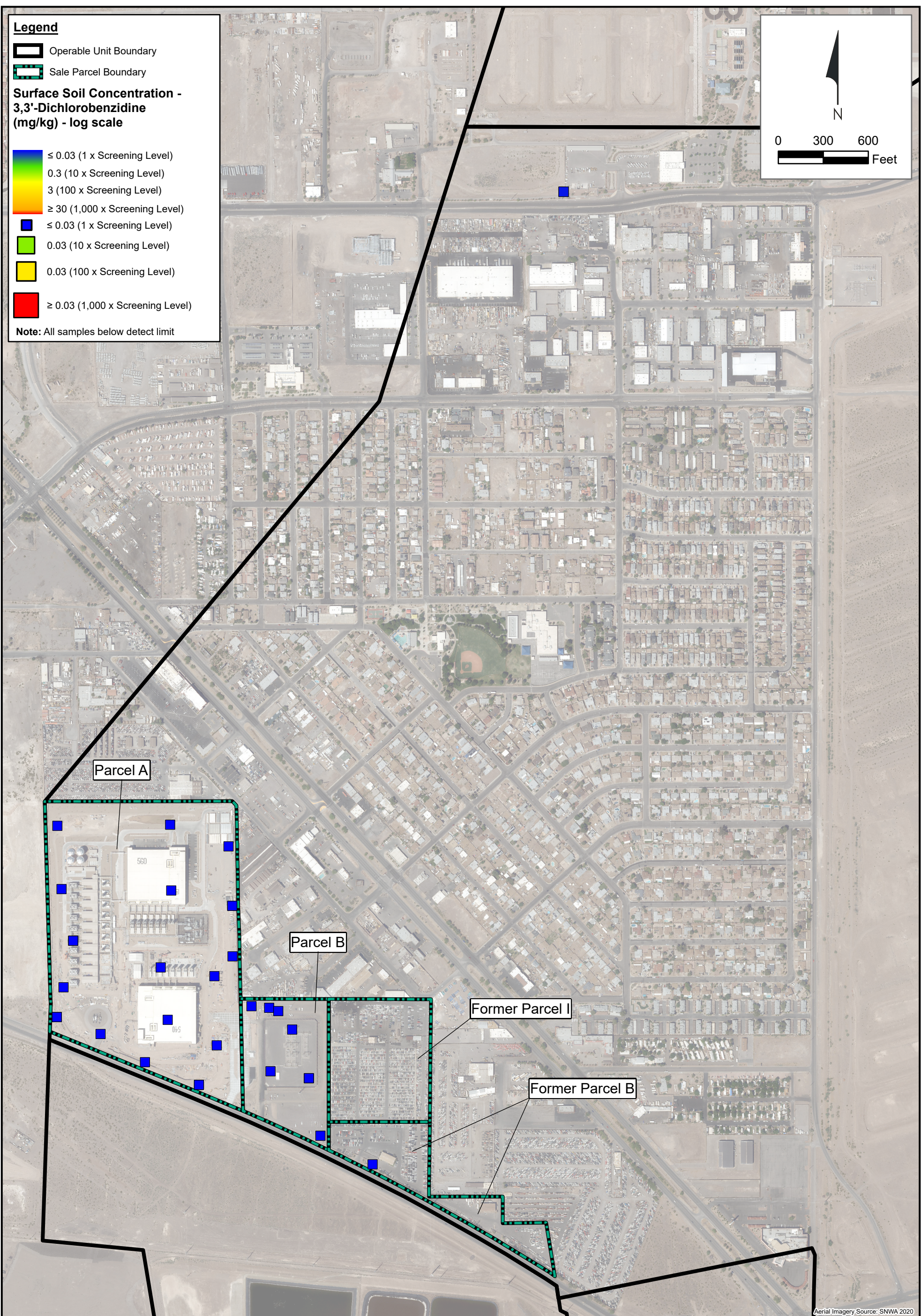
- Operable Unit Boundary
- Sale Parcel Boundary

Surface Soil Concentration - 3,3'-Dichlorobenzidine (mg/kg) - log scale

- ≤ 0.03 (1 x Screening Level)
- 0.3 (10 x Screening Level)
- 3 (100 x Screening Level)
- ≥ 30 (1,000 x Screening Level)

- ≤ 0.03 (1 x Screening Level)
- 0.03 (10 x Screening Level)
- 0.03 (100 x Screening Level)
- ≥ 0.03 (1,000 x Screening Level)

Note: All samples below detect limit



Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2r-3,3'-Dichlorobenzidine

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for 3,3'-Dichlorobenzidine using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2r





Drafter: JC Date: 2023-02-14 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

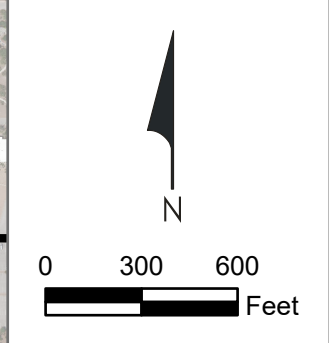
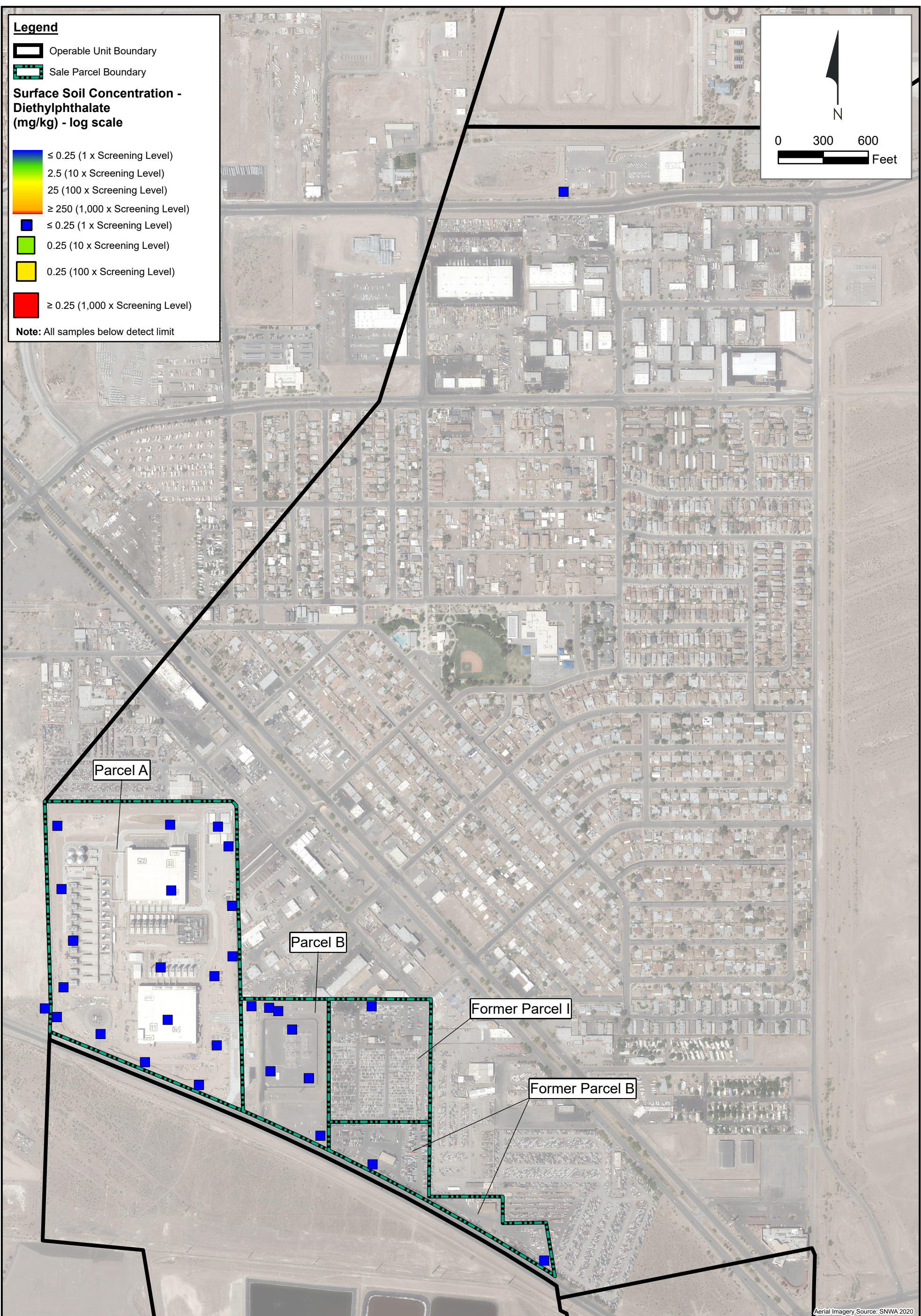
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Diethylphthalate (mg/kg) - log scale

-  ≤ 0.25 (1 x Screening Level)
-  2.5 (10 x Screening Level)
-  25 (100 x Screening Level)
-  ≥ 250 (1,000 x Screening Level)

-  ≤ 0.25 (1 x Screening Level)
-  0.25 (10 x Screening Level)
-  0.25 (100 x Screening Level)
-  ≥ 0.25 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2s Diethylphthalate

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Diethylphthalate using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2s





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

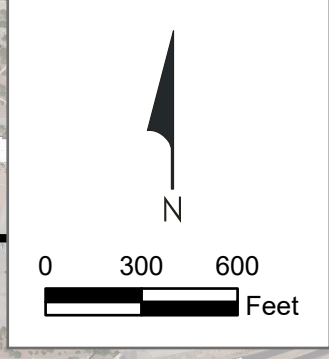
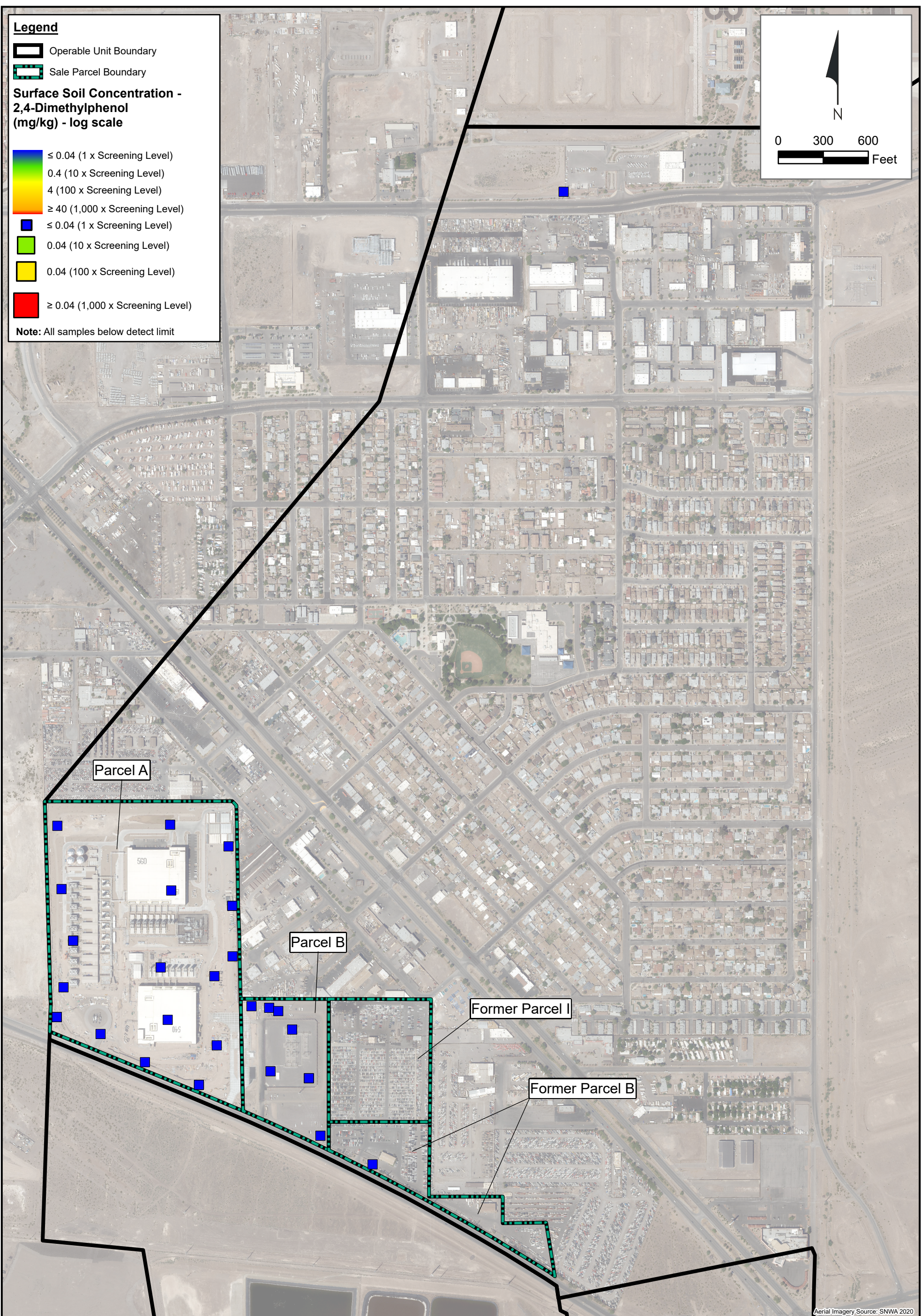
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - 2,4-Dimethylphenol (mg/kg) - log scale

-  ≤ 0.04 (1 x Screening Level)
-  0.4 (10 x Screening Level)
-  4 (100 x Screening Level)
-  ≥ 40 (1,000 x Screening Level)

-  ≤ 0.04 (1 x Screening Level)
-  0.04 (10 x Screening Level)
-  0.04 (100 x Screening Level)
-  ≥ 0.04 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\Figures_2.aprx\Figure H-2t_2,4-Dimethylphenol

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for 2,4-Dimethylphenol using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2t









Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

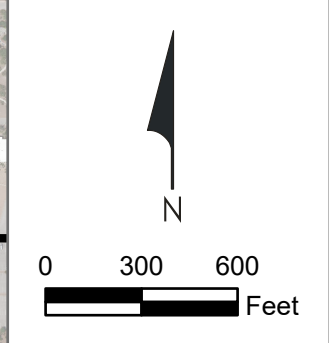
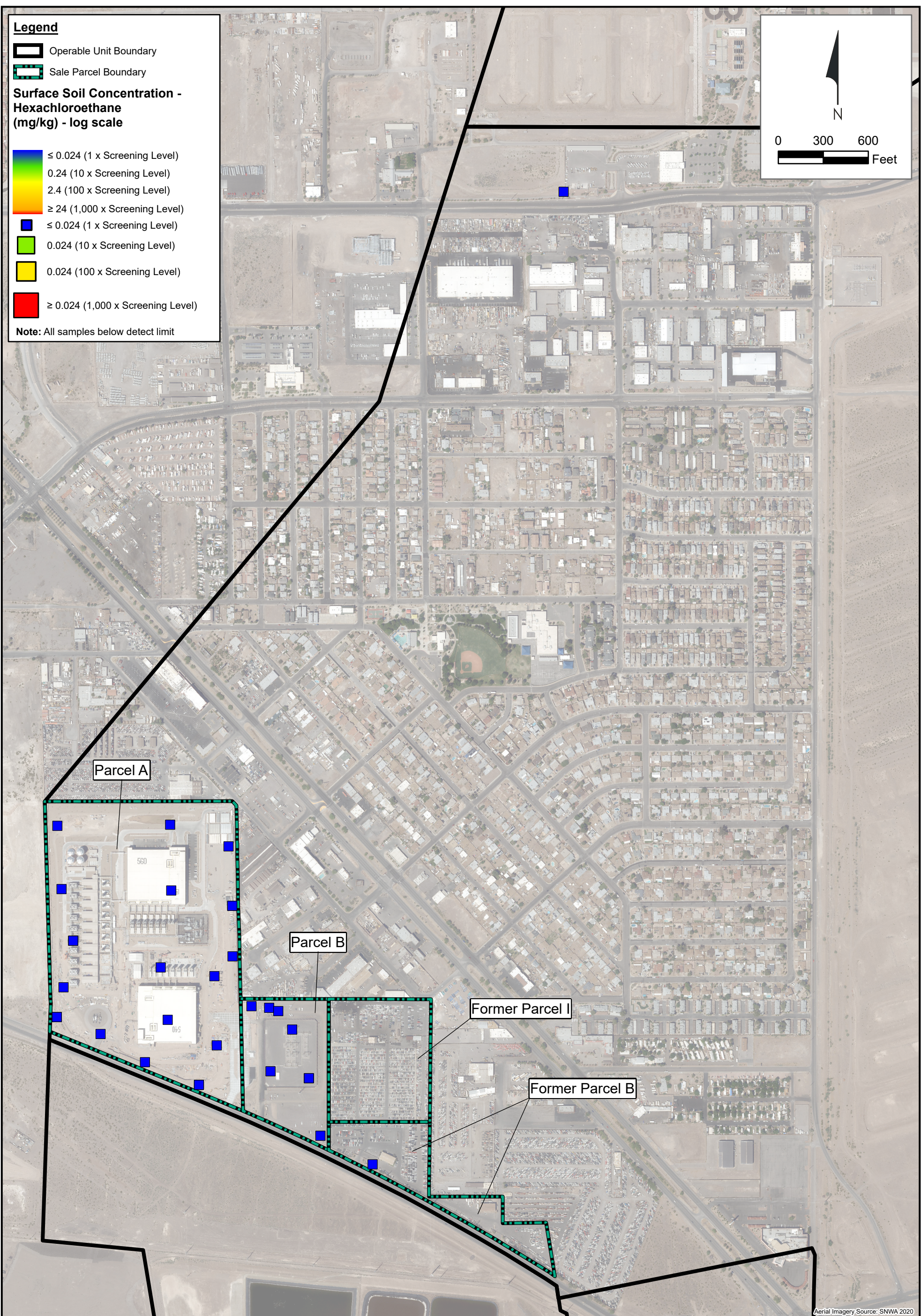
Legend

-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - Hexachloroethane (mg/kg) - log scale

-  ≤ 0.024 (1 x Screening Level)
-  0.24 (10 x Screening Level)
-  2.4 (100 x Screening Level)
-  ≥ 24 (1,000 x Screening Level)
-  ≤ 0.024 (1 x Screening Level)
-  0.024 (10 x Screening Level)
-  0.024 (100 x Screening Level)
-  ≥ 0.024 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2u Hexachloroethane

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for Hexachloroethane using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2u





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

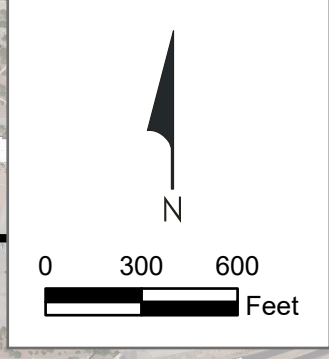
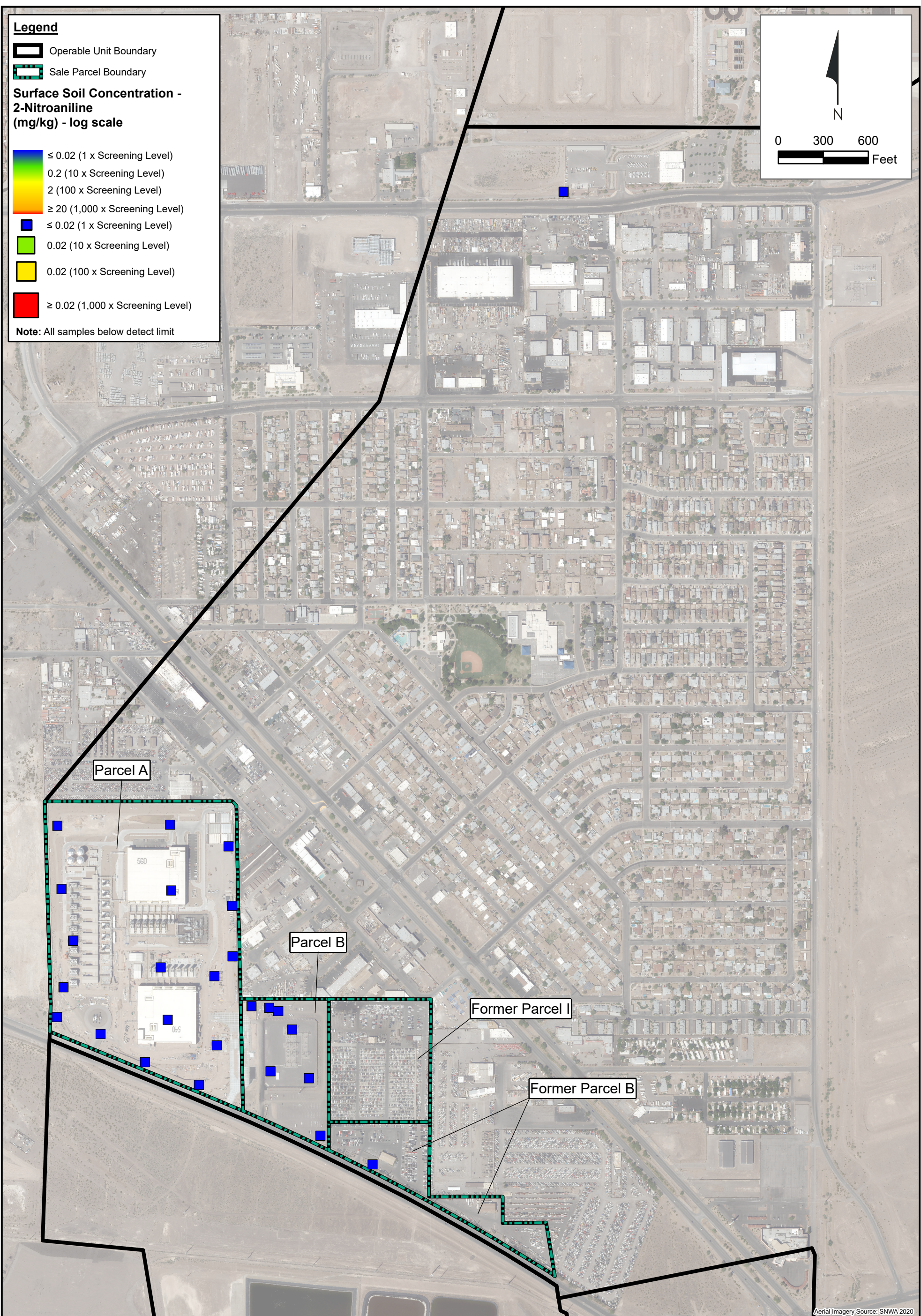
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - 2-Nitroaniline (mg/kg) - log scale

-  ≤ 0.02 (1 x Screening Level)
-  0.2 (10 x Screening Level)
-  2 (100 x Screening Level)
-  ≥ 20 (1,000 x Screening Level)

-  ≤ 0.02 (1 x Screening Level)
-  0.02 (10 x Screening Level)
-  0.02 (100 x Screening Level)
-  ≥ 0.02 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk\Figures\2022\OU-2\figures_2.aprx\Figure H-2v 2-Nitroaniline

Aerial Imagery Source: SNWA 2020





Spatial Surface Soil Concentration Plot for 2-Nitroaniline using Conservative ESVs
Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2v





Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:





Last Saved By:

Legend

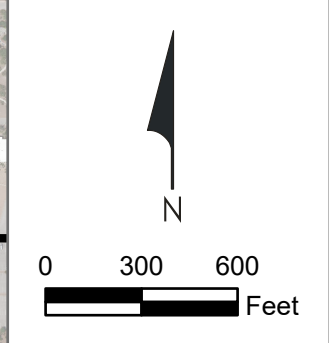
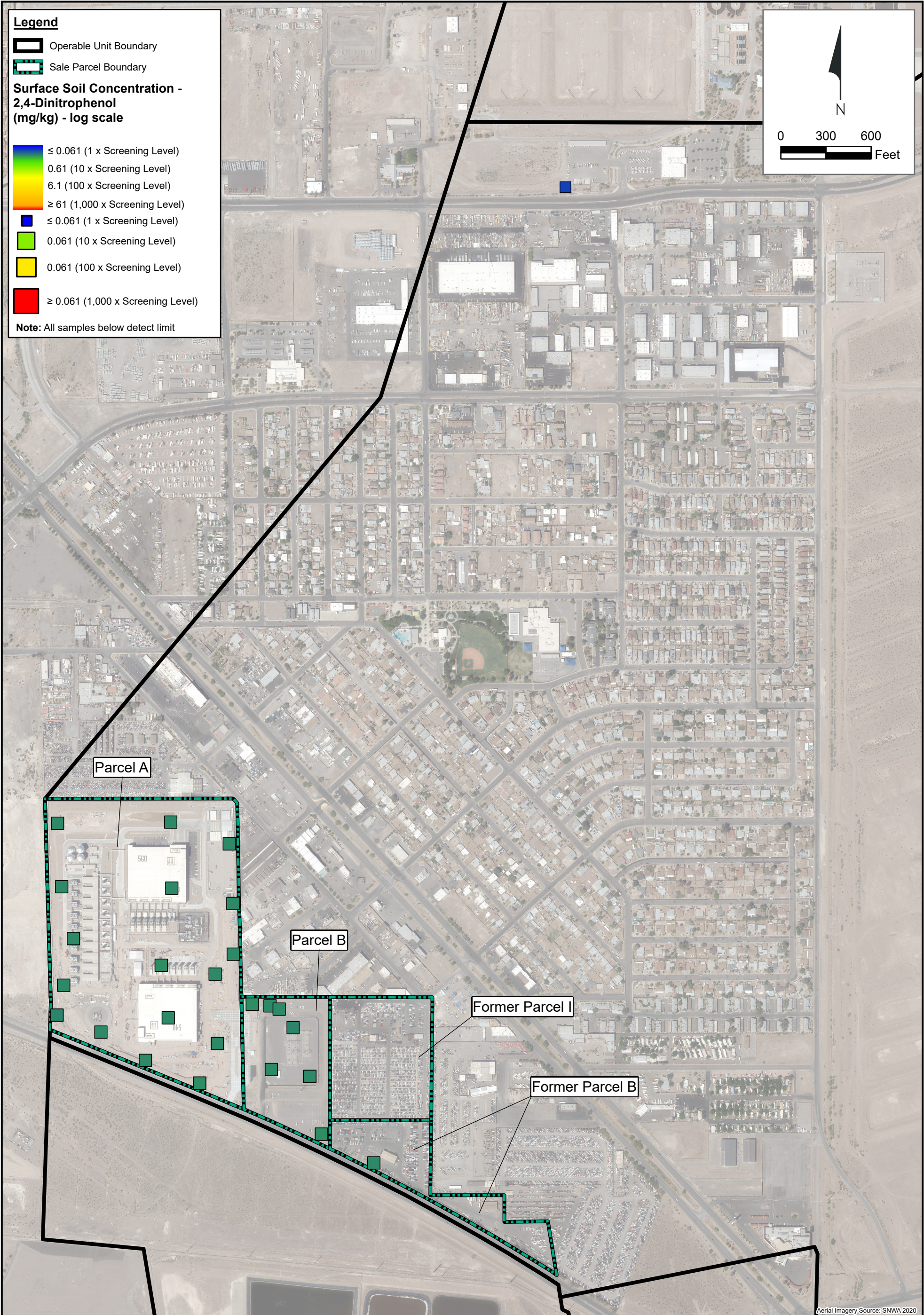
-  Operable Unit Boundary
-  Sale Parcel Boundary

Surface Soil Concentration - 2,4-Dinitrophenol (mg/kg) - log scale

-  ≤ 0.061 (1 x Screening Level)
-  0.61 (10 x Screening Level)
-  6.1 (100 x Screening Level)
-  ≥ 61 (1,000 x Screening Level)

-  ≤ 0.061 (1 x Screening Level)
-  0.061 (10 x Screening Level)
-  0.061 (100 x Screening Level)
-  ≥ 0.061 (1,000 x Screening Level)

Note: All samples below detect limit

Path: H:\LePetomane\NERT\GIS\EcoRisk Figures\2022\OU-2\figures_2.aprx\Figure H-2w_2,4-Dinitrophenol

Aerial Imagery Source: SNWA 2020



Spatial Surface Soil Concentration Plot for 2,4-Dinitrophenol using Conservative ESVs
 Nevada Environmental Response Trust, Henderson, Nevada

Figure
H-2w

Drafter: JC Date: 2023-02-10 Contract Number: 169000 6943 Approved: Revised:

Last Saved By:

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-34-3	1,1-Dichloroethane	0.0058	0.0029	0.14	R4 Inverts	0.04	0.02
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-34-3	1,1-Dichloroethane	0.0054	0.0027	0.14	R4 Inverts	0.04	0.02
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-34-3	1,1-Dichloroethane	0.0052	0.0026	0.14	R4 Inverts	0.04	0.02
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-34-3	1,1-Dichloroethane	0.0056	0.0028	0.14	R4 Inverts	0.04	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00099	0.000495	0.14	R4 Inverts	0.007	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.001	0.0005	0.14	R4 Inverts	0.007	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.001	0.0005	0.14	R4 Inverts	0.007	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00099	0.000495	0.14	R4 Inverts	0.007	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00099	0.000495	0.14	R4 Inverts	0.007	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00096	0.00048	0.14	R4 Inverts	0.007	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.001	0.0005	0.14	R4 Inverts	0.007	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.001	0.0005	0.14	R4 Inverts	0.007	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00099	0.000495	0.14	R4 Inverts	0.007	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00098	0.00049	0.14	R4 Inverts	0.007	0.003
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-34-3	1,1-Dichloroethane	0.00097	0.000485	0.14	R4 Inverts	0.007	0.003
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-34-3	1,1-Dichloroethane	0.001	0.0005	0.14	R4 Inverts	0.007	0.004
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-35-4	1,1-Dichloroethene	0.0058	0.0029	0.04	R4 Inverts	0.1	0.07
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-35-4	1,1-Dichloroethene	0.0054	0.0027	0.04	R4 Inverts	0.1	0.07
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-35-4	1,1-Dichloroethene	0.0052	0.0026	0.04	R4 Inverts	0.1	0.06
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-35-4	1,1-Dichloroethene	0.0056	0.0028	0.04	R4 Inverts	0.1	0.07
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-35-4	1,1-Dichloroethene	0.002	0.001	0.04	R4 Inverts	0.05	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00058	0.00029	0.04	R4 Inverts	0.01	0.007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00058	0.00029	0.04	R4 Inverts	0.01	0.007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00058	0.00029	0.04	R4 Inverts	0.01	0.007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00058	0.00029	0.04	R4 Inverts	0.01	0.007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-35-4	1,1-Dichloroethene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.0058	0.0029	0.04	R4 Inverts	0.1	0.07
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.0052	0.0026	0.04	R4 Inverts	0.1	0.06
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.0054	0.0027	0.04	R4 Inverts	0.1	0.07
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.0056	0.0028	0.04	R4 Inverts	0.1	0.07
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.001	0.0005	0.04	R4 Inverts	0.02	0.01
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00016	0.00008	0.04	R4 Inverts	0.004	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	71-55-6	1,1,1-Trichloroethane	0.00015	0.000075	0.04	R4 Inverts	0.004	0.002
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.0058	0.0029	0.07	R4 Inverts	0.08	0.04
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.0054	0.0027	0.07	R4 Inverts	0.08	0.04
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.0056	0.0028	0.07	R4 Inverts	0.08	0.04
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.0052	0.0026	0.07	R4 Inverts	0.07	0.04
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00024	0.00012	0.07	R4 Inverts	0.003	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00024	0.00012	0.07	R4 Inverts	0.003	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00024	0.00012	0.07	R4 Inverts	0.003	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00024	0.00012	0.07	R4 Inverts	0.003	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	630-20-6	1,1,1,2-Tetrachloroethane	0.00023	0.000115	0.07	R4 Inverts	0.003	0.002
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0058	0.0029	0.32	R4 Inverts	0.02	0.009
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0054	0.0027	0.32	R4 Inverts	0.02	0.008
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0052	0.0026	0.32	R4 Inverts	0.02	0.008
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0056	0.0028	0.32	R4 Inverts	0.02	0.009
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.002	0.001	0.32	R4 Inverts	0.006	0.003
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.0003	0.00015	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0003	0.00015	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00028	0.00014	0.32	R4 Inverts	0.0009	0.0004
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0003	0.00015	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.0003	0.00015	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	79-00-5	1,1,2-Trichloroethane	0.00029	0.000145	0.32	R4 Inverts	0.0009	0.0005
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.0058	0.0029	0.127	R4 Mammal	0.05	0.02
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.0052	0.0026	0.127	R4 Mammal	0.04	0.02
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.0054	0.0027	0.127	R4 Mammal	0.04	0.02
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.0056	0.0028	0.127	R4 Mammal	0.04	0.02
PC-70 06	PC-70 06/23/1999	6/23/1999	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.001	0.0005	0.127	R4 Mammal	0.008	0.004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00015	0.000075	0.127	R4 Mammal	0.001	0.0006
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	79-34-5	1,1,2,2-Tetrachloroethane	0.00014	0.00007	0.127	R4 Mammal	0.001	0.0006
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.035	0.0175	0.09	R4 Inverts	0.4	0.2
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.0058	0.0029	0.09	R4 Inverts	0.06	0.03
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.0054	0.0027	0.09	R4 Inverts	0.06	0.03
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.0052	0.0026	0.09	R4 Inverts	0.06	0.03
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.0056	0.0028	0.09	R4 Inverts	0.06	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00016	0.00008	0.09	R4 Inverts	0.002	0.0009
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	95-50-1	1,2-Dichlorobenzene	0.00015	0.000075	0.09	R4 Inverts	0.002	0.0008
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	107-06-2	1,2-Dichloroethane	0.0058	0.0029	0.4	R4 Inverts	0.01	0.007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	107-06-2	1,2-Dichloroethane	0.0052	0.0026	0.4	R4 Inverts	0.01	0.007
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	107-06-2	1,2-Dichloroethane	0.0054	0.0027	0.4	R4 Inverts	0.01	0.007
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	107-06-2	1,2-Dichloroethane	0.0056	0.0028	0.4	R4 Inverts	0.01	0.007
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	107-06-2	1,2-Dichloroethane	0.002	0.001	0.4	R4 Inverts	0.005	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00046	0.00023	0.4	R4 Inverts	0.001	0.0006
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00047	0.000235	0.4	R4 Inverts	0.001	0.0006
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00046	0.00023	0.4	R4 Inverts	0.001	0.0006
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00046	0.00023	0.4	R4 Inverts	0.001	0.0006
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00046	0.00023	0.4	R4 Inverts	0.001	0.0006
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00046	0.00023	0.4	R4 Inverts	0.001	0.0006
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00045	0.000225	0.4	R4 Inverts	0.001	0.0006
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	107-06-2	1,2-Dichloroethane	0.00044	0.00022	0.4	R4 Inverts	0.001	0.0006
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00058	0.00029	0.04	R4 Inverts	0.01	0.007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00057	0.000285	0.04	R4 Inverts	0.01	0.007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00056	0.00028	0.04	R4 Inverts	0.01	0.007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	540-59-0	1,2-Dichloroethylene	0.00055	0.000275	0.04	R4 Inverts	0.01	0.007
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	78-87-5	1,2-Dichloropropane	0.0058	0.0029	0.28	R4 Inverts	0.02	0.01
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	78-87-5	1,2-Dichloropropane	0.0054	0.0027	0.28	R4 Inverts	0.02	0.01
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	78-87-5	1,2-Dichloropropane	0.0052	0.0026	0.28	R4 Inverts	0.02	0.009
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	78-87-5	1,2-Dichloropropane	0.0056	0.0028	0.28	R4 Inverts	0.02	0.01
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	78-87-5	1,2-Dichloropropane	0.003	0.0015	0.28	R4 Inverts	0.01	0.005
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.0004	0.0002	0.28	R4 Inverts	0.001	0.0007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00039	0.000195	0.28	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	78-87-5	1,2-Dichloropropane	0.00038	0.00019	0.28	R4 Inverts	0.001	0.0007
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0058	0.0029	20	R4 Inverts	0.0003	0.0001
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0052	0.0026	20	R4 Inverts	0.0003	0.0001
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0054	0.0027	20	R4 Inverts	0.0003	0.0001
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0056	0.0028	20	R4 Inverts	0.0003	0.0001
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00083	0.000415	20	R4 Inverts	0.00004	0.00002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00082	0.00041	20	R4 Inverts	0.00004	0.00002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00078	0.00039	20	R4 Inverts	0.00004	0.00002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00082	0.00041	20	R4 Inverts	0.00004	0.00002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00082	0.00041	20	R4 Inverts	0.00004	0.00002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00081	0.000405	20	R4 Inverts	0.00004	0.00002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.0008	0.0004	20	R4 Inverts	0.00004	0.00002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	87-61-6	1,2,3-Trichlorobenzene	0.00079	0.000395	20	R4 Inverts	0.00004	0.00002
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.035	0.0175	0.27	R4 Mammal	0.1	0.06
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.0058	0.0029	0.27	R4 Mammal	0.02	0.01
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.0052	0.0026	0.27	R4 Mammal	0.02	0.01
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.0054	0.0027	0.27	R4 Mammal	0.02	0.01
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.0056	0.0028	0.27	R4 Mammal	0.02	0.01
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00078	0.00039	0.27	R4 Mammal	0.003	0.001
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00077	0.000385	0.27	R4 Mammal	0.003	0.001
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00077	0.000385	0.27	R4 Mammal	0.003	0.001
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00078	0.00039	0.27	R4 Mammal	0.003	0.001
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00076	0.00038	0.27	R4 Mammal	0.003	0.001
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00075	0.000375	0.27	R4 Mammal	0.003	0.001
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	120-82-1	1,2,4-Trichlorobenzene	0.00074	0.00037	0.27	R4 Mammal	0.003	0.001
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.036	0.018	0.18	R4 Inverts	0.2	0.1
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.035	0.0175	0.18	R4 Inverts	0.2	0.1
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	95-94-3	1,2,4,5-Tetrachlorobenzene	0.034	0.017	0.18	R4 Inverts	0.2	0.09
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.035	0.0175	0.08	R4 Inverts	0.4	0.2
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.0058	0.0029	0.08	R4 Inverts	0.07	0.04
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.0054	0.0027	0.08	R4 Inverts	0.07	0.03
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.0056	0.0028	0.08	R4 Inverts	0.07	0.03
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.0052	0.0026	0.08	R4 Inverts	0.06	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00014	0.00007	0.08	R4 Inverts	0.002	0.0009
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	541-73-1	1,3-Dichlorobenzene	0.00013	0.000065	0.08	R4 Inverts	0.002	0.0008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00072	0.00036	0.07	R4 Inverts	0.01	0.005
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00071	0.000355	0.07	R4 Inverts	0.01	0.005

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00068	0.00034	0.07	R4 Inverts	0.01	0.005
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00071	0.000355	0.07	R4 Inverts	0.01	0.005
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00072	0.00036	0.07	R4 Inverts	0.01	0.005
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.0007	0.00035	0.07	R4 Inverts	0.01	0.005
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	108-70-3	1,3,5-Trichlorobenzene	0.00069	0.000345	0.07	R4 Inverts	0.01	0.005
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.0058	0.0029	0.16	R4 Inverts	0.04	0.02
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.0052	0.0026	0.16	R4 Inverts	0.03	0.02
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.0054	0.0027	0.16	R4 Inverts	0.03	0.02
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.0056	0.0028	0.16	R4 Inverts	0.03	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00022	0.00011	0.16	R4 Inverts	0.001	0.0007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	108-67-8	1,3,5-Trimethylbenzene	0.00021	0.000105	0.16	R4 Inverts	0.001	0.0007
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.035	0.0175	0.89	R4 Mammal	0.04	0.02
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.0058	0.0029	0.89	R4 Mammal	0.007	0.003
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.0052	0.0026	0.89	R4 Mammal	0.006	0.003
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.0054	0.0027	0.89	R4 Mammal	0.006	0.003
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.0056	0.0028	0.89	R4 Mammal	0.006	0.003
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	106-46-7	1,4-Dichlorobenzene	0.00011	0.000055	0.89	R4 Mammal	0.0001	0.00006
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	78-93-3	2-Butanone	0.012	0.006	1	R4 Inverts	0.01	0.006
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	78-93-3	2-Butanone	0.011	0.0055	1	R4 Inverts	0.01	0.006
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	78-93-3	2-Butanone	0.01	0.005	1	R4 Inverts	0.01	0.005
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	78-93-3	2-Butanone	0.011	0.0055	1	R4 Inverts	0.01	0.006
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	78-93-3	2-Butanone	0.007	0.0035	1	R4 Inverts	0.007	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	78-93-3	2-Butanone	0.0015	0.00075	1	R4 Inverts	0.002	0.0008
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	78-93-3	2-Butanone	0.0015	0.00075	1	R4 Inverts	0.002	0.0008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	78-93-3	2-Butanone	0.0014	0.0007	1	R4 Inverts	0.001	0.0007
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.036	0.018	0.06	R4 Inverts	0.6	0.3
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	95-57-8	2-Chlorophenol	0.034	0.017	0.06	R4 Inverts	0.6	0.3
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	95-57-8	2-Chlorophenol	0.035	0.0175	0.06	R4 Inverts	0.6	0.3
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	591-78-6	2-Hexanone	0.012	0.006	0.36	R4 Avian	0.03	0.02
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	591-78-6	2-Hexanone	0.01	0.005	0.36	R4 Avian	0.03	0.01
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	591-78-6	2-Hexanone	0.011	0.0055	0.36	R4 Avian	0.03	0.02
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	591-78-6	2-Hexanone	0.011	0.0055	0.36	R4 Avian	0.03	0.02
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	591-78-6	2-Hexanone	0.003	0.0015	0.36	R4 Avian	0.008	0.004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00028	0.00014	0.36	R4 Avian	0.0008	0.0004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	591-78-6	2-Hexanone	0.0003	0.00015	0.36	R4 Avian	0.0008	0.0004
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	591-78-6	2-Hexanone	0.0003	0.00015	0.36	R4 Avian	0.0008	0.0004
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00028	0.00014	0.36	R4 Avian	0.0008	0.0004
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.0003	0.00015	0.36	R4 Avian	0.0008	0.0004
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	591-78-6	2-Hexanone	0.0003	0.00015	0.36	R4 Avian	0.0008	0.0004
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	591-78-6	2-Hexanone	0.00029	0.000145	0.36	R4 Avian	0.0008	0.0004
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	591-78-6	2-Hexanone	0.00028	0.00014	0.36	R4 Avian	0.0008	0.0004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.13	0.065	0.1	R4 Inverts	1	0.6
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6

TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.13	0.065	0.1	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	95-48-7	2-Methylphenol	0.035	0.0175	0.1	R4 Inverts	0.4	0.2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.036	0.018	0.02	R4 Inverts	2	0.9
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	53-19-0	2,4-DDD	0.00012	0.00006	0.021	Eco-SSL Mammal	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	53-19-0	2,4-DDD	0.00011	0.000055	0.021	Eco-SSL Mammal	0.005	0.003
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.07	0.035	0.05	R4 Inverts	1	0.7
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.036	0.018	0.05	R4 Inverts	0.7	0.4
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.035	0.0175	0.05	R4 Inverts	0.7	0.4
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.034	0.017	0.05	R4 Inverts	0.7	0.3
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.07	0.035	0.04	R4 Inverts	2	0.9
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.036	0.018	0.04	R4 Inverts	0.9	0.5
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.035	0.0175	0.04	R4 Inverts	0.9	0.4
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.034	0.017	0.04	R4 Inverts	0.8	0.4
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.33	0.165	0.061	R4 Mammal	5	3
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.33	0.165	0.061	R4 Mammal	5	3
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.2	0.1	0.061	R4 Mammal	3	2
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.07	0.035	6	R4 Plants	0.01	0.006
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.036	0.018	6	R4 Plants	0.006	0.003
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.035	0.0175	6	R4 Plants	0.006	0.003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	121-14-2	2,4-Dinitrotoluene	0.034	0.017	6	R4 Plants	0.006	0.003
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	93-72-1	2,4,5-TP	0.001	0.0005	0.055	R4 Inverts	0.02	0.009
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.07	0.035	4	R4 Plants	0.02	0.009
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.036	0.018	4	R4 Plants	0.009	0.005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.035	0.0175	4	R4 Plants	0.009	0.004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	95-95-4	2,4,5-Trichlorophenol	0.034	0.017	4	R4 Plants	0.008	0.004
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.07	0.035	9.94	R4 Mammal	0.007	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.036	0.018	9.94	R4 Mammal	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.035	0.0175	9.94	R4 Mammal	0.004	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	88-06-2	2,4,6-Trichlorophenol	0.034	0.017	9.94	R4 Mammal	0.003	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.036	0.018	4	R4 Mammal	0.009	0.005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
PC-70 06	PC-70 06/23/1999	6/23/1999	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.035	0.0175	4	R4 Mammal	0.009	0.004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	606-20-2	2,6-Dinitrotoluene	0.034	0.017	4	R4 Mammal	0.008	0.004
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.07	0.035	0.03	R4 Inverts	2	1
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.036	0.018	0.03	R4 Inverts	1	0.6
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.036	0.018	1	R4 Plants	0.04	0.02
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	106-47-8	4-Chloroaniline	0.035	0.0175	1	R4 Plants	0.04	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	106-47-8	4-Chloroaniline	0.034	0.017	1	R4 Plants	0.03	0.02
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	106-44-5	4-Methylphenol	0.07	0.035	0.08	R4 Inverts	0.9	0.4
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.35	0.175	5.12	R4 Mammal	0.07	0.03
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.35	0.175	5.12	R4 Mammal	0.07	0.03
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.35	0.175	5.12	R4 Mammal	0.07	0.03
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.35	0.175	5.12	R4 Mammal	0.07	0.03
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.35	0.175	5.12	R4 Mammal	0.07	0.03
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.34	0.17	5.12	R4 Mammal	0.07	0.03
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.33	0.165	5.12	R4 Mammal	0.06	0.03
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	100-02-7	4-Nitrophenol	0.33	0.165	5.12	R4 Mammal	0.06	0.03
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	100-02-7	4-Nitrophenol	0.18	0.09	5.12	R4 Mammal	0.04	0.02
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	72-54-8	4,4'-DDD	0.002	0.001	0.021	Eco-SSL Mammal	0.1	0.05
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	72-54-8	4,4'-DDD	0.0018	0.0009	0.021	Eco-SSL Mammal	0.09	0.04
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	72-54-8	4,4'-DDD	0.0018	0.0009	0.021	Eco-SSL Mammal	0.09	0.04
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	72-54-8	4,4'-DDD	0.0019	0.00095	0.021	Eco-SSL Mammal	0.09	0.05
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	72-54-8	4,4'-DDD	0.00041	0.000205	0.021	Eco-SSL Mammal	0.02	0.01
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	72-54-8	4,4'-DDD	0.00017	0.000085	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	72-54-8	4,4'-DDD	0.00016	0.00008	0.021	Eco-SSL Mammal	0.008	0.004
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	309-00-2	Aldrin	0.002	0.001	0.03	R4 Inverts	0.07	0.03
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	309-00-2	Aldrin	0.0018	0.0009	0.03	R4 Inverts	0.06	0.03
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	309-00-2	Aldrin	0.0018	0.0009	0.03	R4 Inverts	0.06	0.03
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	309-00-2	Aldrin	0.0019	0.00095	0.03	R4 Inverts	0.06	0.03
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	309-00-2	Aldrin	0.00021	0.000105	0.03	R4 Inverts	0.007	0.004
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	309-00-2	Aldrin	0.000092	0.000046	0.03	R4 Inverts	0.003	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	309-00-2	Aldrin	0.000094	0.000047	0.03	R4 Inverts	0.003	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000092	0.000046	0.03	R4 Inverts	0.003	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	309-00-2	Aldrin	0.000093	0.0000465	0.03	R4 Inverts	0.003	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000093	0.0000465	0.03	R4 Inverts	0.003	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	309-00-2	Aldrin	0.000093	0.0000465	0.03	R4 Inverts	0.003	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	309-00-2	Aldrin	0.000091	0.0000455	0.03	R4 Inverts	0.003	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	309-00-2	Aldrin	0.00009	0.000045	0.03	R4 Inverts	0.003	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	309-00-2	Aldrin	0.000089	0.0000445	0.03	R4 Inverts	0.003	0.001
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	5103-71-9	alpha-Chlordane	0.002	0.001	0.0029	R4 Inverts	0.7	0.3
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	5103-71-9	alpha-Chlordane	0.0019	0.00095	0.0029	R4 Inverts	0.7	0.3
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	5103-71-9	alpha-Chlordane	0.0018	0.0009	0.0029	R4 Inverts	0.6	0.3
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	5103-71-9	alpha-Chlordane	0.0018	0.0009	0.0029	R4 Inverts	0.6	0.3
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	5103-71-9	alpha-Chlordane	0.00021	0.000105	0.0029	R4 Inverts	0.07	0.04
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.00011	0.000055	0.0029	R4 Inverts	0.04	0.02
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.00011	0.000055	0.0029	R4 Inverts	0.04	0.02
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.00011	0.000055	0.0029	R4 Inverts	0.04	0.02
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.00011	0.000055	0.0029	R4 Inverts	0.04	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	5103-71-9	alpha-Chlordane	0.0001	0.00005	0.0029	R4 Inverts	0.03	0.02
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	12674-11-2	Aroclor-1016	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	12674-11-2	Aroclor-1016	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	12674-11-2	Aroclor-1016	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	12674-11-2	Aroclor-1016	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	12674-11-2	Aroclor-1016	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	11104-28-2	Aroclor-1221	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	11104-28-2	Aroclor-1221	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	11104-28-2	Aroclor-1221	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	11104-28-2	Aroclor-1221	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	11104-28-2	Aroclor-1221	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	11141-16-5	Aroclor-1232	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	11141-16-5	Aroclor-1232	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	11141-16-5	Aroclor-1232	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	11141-16-5	Aroclor-1232	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	11141-16-5	Aroclor-1232	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	53469-21-9	Aroclor-1242	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	53469-21-9	Aroclor-1242	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	53469-21-9	Aroclor-1242	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	53469-21-9	Aroclor-1242	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	53469-21-9	Aroclor-1242	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	12672-29-6	Aroclor-1248	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	12672-29-6	Aroclor-1248	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	12672-29-6	Aroclor-1248	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	12672-29-6	Aroclor-1248	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	12672-29-6	Aroclor-1248	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	11097-69-1	Aroclor-1254	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	11097-69-1	Aroclor-1254	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	11097-69-1	Aroclor-1254	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	11097-69-1	Aroclor-1254	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	11097-69-1	Aroclor-1254	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	PCBs	1	11096-82-5	Aroclor-1260	0.038	0.019	0.041	R4 Avian	0.9	0.5
SA26-0.5	SA26-0.5	11/20/2006	PCBs	1	11096-82-5	Aroclor-1260	0.036	0.018	0.041	R4 Avian	0.9	0.4
SA27-0.5	SA27-0.5	11/2/2006	PCBs	1	11096-82-5	Aroclor-1260	0.035	0.0175	0.041	R4 Avian	0.9	0.4
SA25-0.5	SA25-0.5	11/3/2006	PCBs	1	11096-82-5	Aroclor-1260	0.037	0.0185	0.041	R4 Avian	0.9	0.5
PC-70_06	PC-70_06/23/1999	6/23/1999	PCBs	1	11096-82-5	Aroclor-1260	0.01	0.005	0.041	R4 Avian	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	71-43-2	Benzene	0.0058	0.0029	0.12	R4 Inverts	0.05	0.02
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	71-43-2	Benzene	0.0054	0.0027	0.12	R4 Inverts	0.05	0.02
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	71-43-2	Benzene	0.0056	0.0028	0.12	R4 Inverts	0.05	0.02

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	71-43-2	Benzene	0.0052	0.0026	0.12	R4 Inverts	0.04	0.02
PC-70 06	PC-70 06/23/1999	6/23/1999	VOCs	1	71-43-2	Benzene	0.001	0.0005	0.12	R4 Inverts	0.008	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	71-43-2	Benzene	0.00018	0.00009	0.12	R4 Inverts	0.002	0.0008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	71-43-2	Benzene	0.00017	0.000085	0.12	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.036	0.018	0.01	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.036	0.018	0.002	R4 Inverts	20	9
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-25-2	Bromoform	0.0058	0.0029	0.07	R4 Inverts	0.08	0.04
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-25-2	Bromoform	0.0054	0.0027	0.07	R4 Inverts	0.08	0.04
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-25-2	Bromoform	0.0056	0.0028	0.07	R4 Inverts	0.08	0.04
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-25-2	Bromoform	0.0052	0.0026	0.07	R4 Inverts	0.07	0.04
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-25-2	Bromoform	0.001	0.0005	0.07	R4 Inverts	0.01	0.007
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-25-2	Bromoform	0.00026	0.00013	0.07	R4 Inverts	0.004	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-25-2	Bromoform	0.00026	0.00013	0.07	R4 Inverts	0.004	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00026	0.00013	0.07	R4 Inverts	0.004	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-25-2	Bromoform	0.00026	0.00013	0.07	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-25-2	Bromoform	0.00025	0.000125	0.07	R4 Inverts	0.004	0.002
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	74-83-9	Bromomethane	0.012	0.006	0.002	R4 Inverts	6	3
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	74-83-9	Bromomethane	0.011	0.0055	0.002	R4 Inverts	6	3
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	74-83-9	Bromomethane	0.011	0.0055	0.002	R4 Inverts	6	3
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	74-83-9	Bromomethane	0.01	0.005	0.002	R4 Inverts	5	2
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	74-83-9	Bromomethane	0.003	0.0015	0.002	R4 Inverts	2	0.8
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	74-83-9	Bromomethane	0.00033	0.000165	0.002	R4 Inverts	0.2	0.08
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	74-83-9	Bromomethane	0.00033	0.000165	0.002	R4 Inverts	0.2	0.08
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00031	0.000155	0.002	R4 Inverts	0.2	0.08
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00033	0.000165	0.002	R4 Inverts	0.2	0.08
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	74-83-9	Bromomethane	0.00033	0.000165	0.002	R4 Inverts	0.2	0.08
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	74-83-9	Bromomethane	0.00032	0.00016	0.002	R4 Inverts	0.2	0.08
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.036	0.018	0.07	R4 Inverts	0.5	0.3
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	86-74-8	Carbazole	0.034	0.017	0.07	R4 Inverts	0.5	0.2
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	86-74-8	Carbazole	0.035	0.0175	0.07	R4 Inverts	0.5	0.2
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-15-0	Carbon disulfide	0.003	0.0015	0.005	R4 Inverts	0.6	0.3
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00058	0.00029	0.005	R4 Inverts	0.1	0.06
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-15-0	Carbon disulfide	0.00058	0.00029	0.005	R4 Inverts	0.1	0.06
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00055	0.000275	0.005	R4 Inverts	0.1	0.06
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00058	0.00029	0.005	R4 Inverts	0.1	0.06
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-15-0	Carbon disulfide	0.00058	0.00029	0.005	R4 Inverts	0.1	0.06
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-15-0	Carbon disulfide	0.00057	0.000285	0.005	R4 Inverts	0.1	0.06
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-15-0	Carbon disulfide	0.00056	0.00028	0.005	R4 Inverts	0.1	0.06
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	56-23-5	Carbon tetrachloride	0.0058	0.0029	0.05	R4 Inverts	0.1	0.06
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	56-23-5	Carbon tetrachloride	0.0052	0.0026	0.05	R4 Inverts	0.1	0.05
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	56-23-5	Carbon tetrachloride	0.0054	0.0027	0.05	R4 Inverts	0.1	0.05
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	56-23-5	Carbon tetrachloride	0.0056	0.0028	0.05	R4 Inverts	0.1	0.06
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00094	0.00047	0.05	R4 Inverts	0.02	0.009
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00096	0.00048	0.05	R4 Inverts	0.02	0.01
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00094	0.00047	0.05	R4 Inverts	0.02	0.009
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00095	0.000475	0.05	R4 Inverts	0.02	0.01
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00094	0.00047	0.05	R4 Inverts	0.02	0.009
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00094	0.00047	0.05	R4 Inverts	0.02	0.009
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00091	0.000455	0.05	R4 Inverts	0.02	0.009
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00095	0.000475	0.05	R4 Inverts	0.02	0.01
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00096	0.00048	0.05	R4 Inverts	0.02	0.01
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00094	0.00047	0.05	R4 Inverts	0.02	0.009
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00093	0.000465	0.05	R4 Inverts	0.02	0.009
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	56-23-5	Carbon tetrachloride	0.00092	0.00046	0.05	R4 Inverts	0.02	0.009
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	56-23-5	Carbon tetrachloride	0.001	0.0005	0.05	R4 Inverts	0.02	0.01
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	57-74-9	Chlordane (total)	0.011	0.0055	0.0029	R4 a-chlordane surr	4	2
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	57-74-9	Chlordane (total)	0.012	0.006	0.0029	R4 a-chlordane surr	4	2
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	57-74-9	Chlordane (total)	0.011	0.0055	0.0029	R4 a-chlordane surr	4	2
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	57-74-9	Chlordane (total)	0.01	0.005	0.0029	R4 a-chlordane surr	3	2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	57-74-9	Chlordane (total)	0.0024	0.0012	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	57-74-9	Chlordane (total)	0.0023	0.00115	0.0029	R4 a-chlordane surr	0.8	0.4
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	108-90-7	Chlorobenzene	0.0058	0.0029	2.4	R4 Inverts	0.002	0.001

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	108-90-7	Chlorobenzene	0.0052	0.0026	2.4	R4 Inverts	0.002	0.001
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	108-90-7	Chlorobenzene	0.0054	0.0027	2.4	R4 Inverts	0.002	0.001
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	108-90-7	Chlorobenzene	0.0056	0.0028	2.4	R4 Inverts	0.002	0.001
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	108-90-7	Chlorobenzene	0.001	0.0005	2.4	R4 Inverts	0.0004	0.0002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00012	0.00006	2.4	R4 Inverts	0.00005	0.00002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	108-90-7	Chlorobenzene	0.00013	0.000065	2.4	R4 Inverts	0.00005	0.00003
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	67-66-3	Chloroform	0.0058	0.0029	0.05	R4 Inverts	0.1	0.06
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	67-66-3	Chloroform	0.0054	0.0027	0.05	R4 Inverts	0.1	0.05
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	67-66-3	Chloroform	0.0052	0.0026	0.05	R4 Inverts	0.1	0.05
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	67-66-3	Chloroform	0.0056	0.0028	0.05	R4 Inverts	0.1	0.06
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	67-66-3	Chloroform	0.001	0.0005	0.05	R4 Inverts	0.02	0.01
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	67-66-3	Chloroform	0.00015	0.000075	0.05	R4 Inverts	0.003	0.001
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	67-66-3	Chloroform	0.00014	0.00007	0.05	R4 Inverts	0.003	0.001
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.023	0.0115	0.003	R4 Inverts	8	4
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.023	0.0115	0.003	R4 Inverts	8	4
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.021	0.0105	0.003	R4 Inverts	7	4
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.022	0.011	0.003	R4 Inverts	7	4
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.0058	0.0029	0.04	R4 Inverts	0.1	0.07
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.0052	0.0026	0.04	R4 Inverts	0.1	0.06
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.0054	0.0027	0.04	R4 Inverts	0.1	0.07
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.0056	0.0028	0.04	R4 Inverts	0.1	0.07
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.002	0.001	0.04	R4 Inverts	0.05	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00046	0.00023	0.04	R4 Inverts	0.01	0.006
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00045	0.000225	0.04	R4 Inverts	0.01	0.006
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00045	0.000225	0.04	R4 Inverts	0.01	0.006
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00045	0.000225	0.04	R4 Inverts	0.01	0.006
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00044	0.00022	0.04	R4 Inverts	0.01	0.006
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	156-59-2	cis-1,2-Dichloroethene	0.00043	0.000215	0.04	R4 Inverts	0.01	0.005
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	98-82-8	Cumene	0.0058	0.0029	0.04	R4 Inverts	0.1	0.07
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	98-82-8	Cumene	0.0052	0.0026	0.04	R4 Inverts	0.1	0.06
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	98-82-8	Cumene	0.0054	0.0027	0.04	R4 Inverts	0.1	0.07
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	98-82-8	Cumene	0.0056	0.0028	0.04	R4 Inverts	0.1	0.07
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	98-82-8	Cumene	0.00019	0.000095	0.04	R4 Inverts	0.005	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	98-82-8	Cumene	0.00019	0.000095	0.04	R4 Inverts	0.005	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00019	0.000095	0.04	R4 Inverts	0.005	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	98-82-8	Cumene	0.00019	0.000095	0.04	R4 Inverts	0.005	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	98-82-8	Cumene	0.00018	0.00009	0.04	R4 Inverts	0.004	0.002
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.13	0.065	0.098	R4 Avian	1	0.7
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.14	0.07	0.098	R4 Avian	1	0.7
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.14	0.07	0.098	R4 Avian	1	0.7
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	117-84-0	Di-n-octylphthalate	0.36	0.18	0.91	R4 Mammal	0.4	0.2
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	117-84-0	Di-n-octylphthalate	0.35	0.175	0.91	R4 Mammal	0.4	0.2

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	117-84-0	Di-n-octylphthalate	0.38	0.19	0.91	R4 Mammal	0.4	0.2
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	117-84-0	Di-n-octylphthalate	0.37	0.185	0.91	R4 Mammal	0.4	0.2
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	117-84-0	Di-n-octylphthalate	0.07	0.035	0.91	R4 Mammal	0.08	0.04
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.016	0.008	0.91	R4 Mammal	0.02	0.009
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.016	0.008	0.91	R4 Mammal	0.02	0.009
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.016	0.008	0.91	R4 Mammal	0.02	0.009
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.016	0.008	0.91	R4 Mammal	0.02	0.009
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.016	0.008	0.91	R4 Mammal	0.02	0.009
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	117-84-0	Di-n-octylphthalate	0.015	0.0075	0.91	R4 Mammal	0.02	0.008
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	333-41-5	Diazinon	0.025	0.0125	0.0037	R4 Inverts	7	3
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	333-41-5	Diazinon	0.025	0.0125	0.0037	R4 Inverts	7	3
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	333-41-5	Diazinon	0.023	0.0115	0.0037	R4 Inverts	6	3
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	333-41-5	Diazinon	0.024	0.012	0.0037	R4 Inverts	6	3
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.036	0.018	0.15	R4 Inverts	0.2	0.1
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	132-64-9	Dibenzofuran	0.034	0.017	0.15	R4 Inverts	0.2	0.1
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	132-64-9	Dibenzofuran	0.035	0.0175	0.15	R4 Inverts	0.2	0.1
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	60-57-1	Dieldrin	0.002	0.001	0.0049	Eco-SSL Mammal	0.4	0.2
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	60-57-1	Dieldrin	0.0018	0.0009	0.0049	Eco-SSL Mammal	0.4	0.2
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	60-57-1	Dieldrin	0.0018	0.0009	0.0049	Eco-SSL Mammal	0.4	0.2
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	60-57-1	Dieldrin	0.0019	0.00095	0.0049	Eco-SSL Mammal	0.4	0.2
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	60-57-1	Dieldrin	0.00041	0.000205	0.0049	Eco-SSL Mammal	0.08	0.04
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000076	0.000038	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000078	0.000039	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000076	0.000038	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	60-57-1	Dieldrin	0.000077	0.0000385	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000076	0.000038	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000077	0.0000385	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	60-57-1	Dieldrin	0.000077	0.0000385	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	60-57-1	Dieldrin	0.000075	0.0000375	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	60-57-1	Dieldrin	0.000074	0.000037	0.0049	Eco-SSL Mammal	0.02	0.008
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	84-66-2	Diethylphthalate	0.38	0.19	0.25	R4 Inverts	2	0.8
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	84-66-2	Diethylphthalate	0.36	0.18	0.25	R4 Inverts	1	0.7
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	84-66-2	Diethylphthalate	0.35	0.175	0.25	R4 Inverts	1	0.7
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	84-66-2	Diethylphthalate	0.37	0.185	0.25	R4 Inverts	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	84-66-2	Diethylphthalate	0.07	0.035	0.25	R4 Inverts	0.3	0.1
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.036	0.018	0.25	R4 Inverts	0.1	0.07
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	84-66-2	Diethylphthalate	0.035	0.0175	0.25	R4 Inverts	0.1	0.07
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	84-66-2	Diethylphthalate	0.034	0.017	0.25	R4 Inverts	0.1	0.07
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	131-11-3	Dimethylphthalate	0.36	0.18	10	R4 Inverts	0.04	0.02
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	131-11-3	Dimethylphthalate	0.38	0.19	10	R4 Inverts	0.04	0.02
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	131-11-3	Dimethylphthalate	0.35	0.175	10	R4 Inverts	0.04	0.02
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	131-11-3	Dimethylphthalate	0.37	0.185	10	R4 Inverts	0.04	0.02
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	131-11-3	Dimethylphthalate	0.07	0.035	10	R4 Inverts	0.007	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.036	0.018	10	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.035	0.0175	10	R4 Inverts	0.004	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	131-11-3	Dimethylphthalate	0.034	0.017	10	R4 Inverts	0.003	0.002
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	88-85-7	Dinoseb	0.0054	0.0027	0.015	R4 Inverts	0.4	0.2
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	959-98-8	Endosulfan I	0.0018	0.0009	0.0009	R4 Inverts	2	1
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	959-98-8	Endosulfan I	0.002	0.001	0.0009	R4 Inverts	2	1
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	959-98-8	Endosulfan I	0.0018	0.0009	0.0009	R4 Inverts	2	1
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	959-98-8	Endosulfan I	0.0019	0.00095	0.0009	R4 Inverts	2	1
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	959-98-8	Endosulfan I	0.00021	0.000105	0.0009	R4 Inverts	0.2	0.1
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000087	0.0000435	0.0009	R4 Inverts	0.1	0.05
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000089	0.0000445	0.0009	R4 Inverts	0.1	0.05
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000087	0.0000435	0.0009	R4 Inverts	0.1	0.05
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	959-98-8	Endosulfan I	0.000088	0.000044	0.0009	R4 Inverts	0.1	0.05
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000087	0.0000435	0.0009	R4 Inverts	0.1	0.05
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000087	0.0000435	0.0009	R4 Inverts	0.1	0.05
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000088	0.000044	0.0009	R4 Inverts	0.1	0.05
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	959-98-8	Endosulfan I	0.000088	0.000044	0.0009	R4 Inverts	0.1	0.05
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	959-98-8	Endosulfan I	0.000086	0.000043	0.0009	R4 Inverts	0.1	0.05
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000084	0.000042	0.0009	R4 Inverts	0.09	0.05
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	959-98-8	Endosulfan I	0.000085	0.0000425	0.0009	R4 Inverts	0.09	0.05
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	959-98-8	Endosulfan I	0.000084	0.000042	0.0009	R4 Inverts	0.09	0.05
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0018	0.0009	0.0007	R4 Inverts	3	1
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.002	0.001	0.0007	R4 Inverts	3	1
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0018	0.0009	0.0007	R4 Inverts	3	1
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0019	0.00095	0.0007	R4 Inverts	3	1
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	1031-07-8	Endosulfan sulfate	0.00041	0.000205	0.0007	R4 Inverts	0.6	0.3
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00013	0.000065	0.0007	R4 Inverts	0.2	0.09
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	1031-07-8	Endosulfan sulfate	0.00012	0.00006	0.0007	R4 Inverts	0.2	0.09
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	72-20-8	Endrin	0.0018	0.0009	0.0014	R4 Avian	1	0.6

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	72-20-8	Endrin	0.002	0.001	0.0014	R4 Avian	1	0.7
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	72-20-8	Endrin	0.0018	0.0009	0.0014	R4 Avian	1	0.6
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	72-20-8	Endrin	0.0019	0.00095	0.0014	R4 Avian	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	72-20-8	Endrin	0.00041	0.000205	0.0014	R4 Avian	0.3	0.1
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	72-20-8	Endrin	0.000084	0.000042	0.0014	R4 Avian	0.06	0.03
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	72-20-8	Endrin	0.000087	0.0000435	0.0014	R4 Avian	0.06	0.03
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	72-20-8	Endrin	0.000089	0.0000445	0.0014	R4 Avian	0.06	0.03
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	72-20-8	Endrin	0.000087	0.0000435	0.0014	R4 Avian	0.06	0.03
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	72-20-8	Endrin	0.000088	0.000044	0.0014	R4 Avian	0.06	0.03
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000087	0.0000435	0.0014	R4 Avian	0.06	0.03
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000087	0.0000435	0.0014	R4 Avian	0.06	0.03
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000088	0.000044	0.0014	R4 Avian	0.06	0.03
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	72-20-8	Endrin	0.000088	0.000044	0.0014	R4 Avian	0.06	0.03
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	72-20-8	Endrin	0.000086	0.000043	0.0014	R4 Avian	0.06	0.03
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	72-20-8	Endrin	0.000085	0.0000425	0.0014	R4 Avian	0.06	0.03
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	72-20-8	Endrin	0.000084	0.000042	0.0014	R4 Avian	0.06	0.03
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	107-21-1	Ethylene glycol	52	26	0.31	R4 Inverts	200	80
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	107-21-1	Ethylene glycol	54	27	0.31	R4 Inverts	200	90
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	58-89-9	gamma-BHC	0.0018	0.0009	0.0031	R4 Inverts	0.6	0.3
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	58-89-9	gamma-BHC	0.002	0.001	0.0031	R4 Inverts	0.6	0.3
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	58-89-9	gamma-BHC	0.0018	0.0009	0.0031	R4 Inverts	0.6	0.3
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	58-89-9	gamma-BHC	0.0019	0.00095	0.0031	R4 Inverts	0.6	0.3
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	58-89-9	gamma-BHC	0.00021	0.000105	0.0031	R4 Inverts	0.07	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000084	0.000042	0.0031	R4 Inverts	0.03	0.01
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000087	0.0000435	0.0031	R4 Inverts	0.03	0.01
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000089	0.0000445	0.0031	R4 Inverts	0.03	0.01
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000087	0.0000435	0.0031	R4 Inverts	0.03	0.01
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	58-89-9	gamma-BHC	0.000088	0.000044	0.0031	R4 Inverts	0.03	0.01
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000087	0.0000435	0.0031	R4 Inverts	0.03	0.01
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000087	0.0000435	0.0031	R4 Inverts	0.03	0.01
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000088	0.000044	0.0031	R4 Inverts	0.03	0.01
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	58-89-9	gamma-BHC	0.000088	0.000044	0.0031	R4 Inverts	0.03	0.01
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	58-89-9	gamma-BHC	0.000086	0.000043	0.0031	R4 Inverts	0.03	0.01
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	58-89-9	gamma-BHC	0.000085	0.0000425	0.0031	R4 Inverts	0.03	0.01
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	58-89-9	gamma-BHC	0.000084	0.000042	0.0031	R4 Inverts	0.03	0.01
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	5103-74-2	gamma-Chlordane	0.002	0.001	0.02	R4 Inverts	0.1	0.05
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	5103-74-2	gamma-Chlordane	0.0019	0.00095	0.02	R4 Inverts	0.1	0.05
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	5103-74-2	gamma-Chlordane	0.0018	0.0009	0.02	R4 Inverts	0.09	0.04
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	5103-74-2	gamma-Chlordane	0.0018	0.0009	0.02	R4 Inverts	0.09	0.04
PC-70 06	PC-70 06/23/1999	6/23/1999	OCPs	1	5103-74-2	gamma-Chlordane	0.00021	0.000105	0.02	R4 Inverts	0.01	0.005
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000092	0.000046	0.02	R4 Inverts	0.005	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000091	0.0000455	0.02	R4 Inverts	0.005	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.00009	0.000045	0.02	R4 Inverts	0.004	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.00009	0.000045	0.02	R4 Inverts	0.004	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.00009	0.000045	0.02	R4 Inverts	0.004	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000089	0.0000445	0.02	R4 Inverts	0.004	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000088	0.000044	0.02	R4 Inverts	0.004	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	5103-74-2	gamma-Chlordane	0.000087	0.0000435	0.02	R4 Inverts	0.004	0.002
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	86-50-0	Guthion	0.015	0.0075	0.00006	R4 Inverts	200	100
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	86-50-0	Guthion	0.014	0.007	0.00006	R4 Inverts	200	100
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	86-50-0	Guthion	0.014	0.007	0.00006	R4 Inverts	200	100
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	86-50-0	Guthion	0.015	0.0075	0.00006	R4 Inverts	200	100
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	76-44-8	Heptachlor	0.0018	0.0009	0.0016	R4 Inverts	1	0.6
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	76-44-8	Heptachlor	0.002	0.001	0.0016	R4 Inverts	1	0.6
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	76-44-8	Heptachlor	0.0018	0.0009	0.0016	R4 Inverts	1	0.6
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	76-44-8	Heptachlor	0.0019	0.00095	0.0016	R4 Inverts	1	0.6
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00062	0.00031	0.0016	R4 Inverts	0.4	0.2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00063	0.000315	0.0016	R4 Inverts	0.4	0.2
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.00062	0.00031	0.0016	R4 Inverts	0.4	0.2
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	76-44-8	Heptachlor	0.00062	0.00031	0.0016	R4 Inverts	0.4	0.2
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.00062	0.00031	0.0016	R4 Inverts	0.4	0.2
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	76-44-8	Heptachlor	0.00062	0.00031	0.0016	R4 Inverts	0.4	0.2
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	76-44-8	Heptachlor	0.00061	0.000305	0.0016	R4 Inverts	0.4	0.2
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	76-44-8	Heptachlor	0.0006	0.0003	0.0016	R4 Inverts	0.4	0.2
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	76-44-8	Heptachlor	0.00021	0.000105	0.0016	R4 Inverts	0.1	0.07
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.002	0.001	0.00015	R4 Inverts	10	7
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0018	0.0009	0.00015	R4 Inverts	10	6

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0018	0.0009	0.00015	R4 Inverts	10	6
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0019	0.00095	0.00015	R4 Inverts	10	6
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	1024-57-3	Heptachlor epoxide	0.00021	0.000105	0.00015	R4 Inverts	1	0.7
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	1024-57-3	Heptachlor epoxide	0.00012	0.00006	0.00015	R4 Inverts	0.8	0.4
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	87-68-3	Hexachlorobutadiene	0.07	0.035	0.009	R4 Inverts	8	4
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.036	0.018	0.009	R4 Inverts	4	2
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	87-68-3	Hexachlorobutadiene	0.0058	0.0029	0.009	R4 Inverts	0.6	0.3
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	87-68-3	Hexachlorobutadiene	0.0054	0.0027	0.009	R4 Inverts	0.6	0.3
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	87-68-3	Hexachlorobutadiene	0.0052	0.0026	0.009	R4 Inverts	0.6	0.3
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	87-68-3	Hexachlorobutadiene	0.0056	0.0028	0.009	R4 Inverts	0.6	0.3
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.33	0.165	0.001	R4 Inverts	300	200
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.33	0.165	0.001	R4 Inverts	300	200

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.18	0.09	0.001	R4 Inverts	200	90
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.036	0.018	0.024	R4 Inverts	2	0.8
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	121-75-5	Malathion	0.017	0.0085	0.00004	R4 Inverts	400	200
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	121-75-5	Malathion	0.016	0.008	0.00004	R4 Inverts	400	200
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	121-75-5	Malathion	0.016	0.008	0.00004	R4 Inverts	400	200
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	121-75-5	Malathion	0.017	0.0085	0.00004	R4 Inverts	400	200
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	72-43-5	Methoxychlor	0.0035	0.00175	0.0021	R4 Inverts	2	0.8
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	72-43-5	Methoxychlor	0.0038	0.0019	0.0021	R4 Inverts	2	0.9
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	72-43-5	Methoxychlor	0.0036	0.0018	0.0021	R4 Inverts	2	0.9
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	72-43-5	Methoxychlor	0.0037	0.00185	0.0021	R4 Inverts	2	0.9
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	72-43-5	Methoxychlor	0.0021	0.00105	0.0021	R4 Inverts	1	0.5
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00074	0.00037	0.0021	R4 Inverts	0.4	0.2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00075	0.000375	0.0021	R4 Inverts	0.4	0.2
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00074	0.00037	0.0021	R4 Inverts	0.4	0.2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00074	0.00037	0.0021	R4 Inverts	0.4	0.2
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	72-43-5	Methoxychlor	0.00074	0.00037	0.0021	R4 Inverts	0.4	0.2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00071	0.000355	0.0021	R4 Inverts	0.3	0.2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00071	0.000355	0.0021	R4 Inverts	0.3	0.2

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00071	0.000355	0.0021	R4 Inverts	0.3	0.2
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00071	0.000355	0.0021	R4 Inverts	0.3	0.2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	72-43-5	Methoxychlor	0.00073	0.000365	0.0021	R4 Inverts	0.3	0.2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	72-43-5	Methoxychlor	0.00072	0.00036	0.0021	R4 Inverts	0.3	0.2
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	72-43-5	Methoxychlor	0.00071	0.000355	0.0021	R4 Inverts	0.3	0.2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	74-88-4	Methyl iodide	0.00027	0.000135	0.038	LANL Bird	0.007	0.004

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	74-88-4	Methyl iodide	0.00026	0.00013	0.038	LANL Bird	0.007	0.003
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-09-2	Methylene Chloride	0.0058	0.0029	0.21	R4 Inverts	0.03	0.01
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-09-2	Methylene Chloride	0.0054	0.0027	0.21	R4 Inverts	0.03	0.01
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-09-2	Methylene Chloride	0.0056	0.0028	0.21	R4 Inverts	0.03	0.01
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-09-2	Methylene Chloride	0.0052	0.0026	0.21	R4 Inverts	0.02	0.01
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0027	0.00135	0.21	R4 Inverts	0.01	0.006
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-09-2	Methylene Chloride	0.0026	0.0013	0.21	R4 Inverts	0.01	0.006
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-09-2	Methylene Chloride	0.0025	0.00125	0.21	R4 Inverts	0.01	0.006
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-09-2	Methylene Chloride	0.002	0.001	0.21	R4 Inverts	0.01	0.005
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	104-51-8	n-Butylbenzene	0.0058	0.0029	10	R4 Dimethylphthalate surr	0.0006	0.0003
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	104-51-8	n-Butylbenzene	0.0056	0.0028	10	R4 Dimethylphthalate surr	0.0006	0.0003
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	104-51-8	n-Butylbenzene	0.0052	0.0026	10	R4 Dimethylphthalate surr	0.0005	0.0003
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	104-51-8	n-Butylbenzene	0.0054	0.0027	10	R4 Dimethylphthalate surr	0.0005	0.0003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00056	0.00028	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00056	0.00028	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00056	0.00028	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00056	0.00028	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00055	0.000275	10	R4 Dimethylphthalate surr	0.00006	0.00003
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00053	0.000265	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	104-51-8	n-Butylbenzene	0.00054	0.00027	10	R4 Dimethylphthalate surr	0.00005	0.00003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.036	0.018	0.545	R4 Mammal	0.07	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.034	0.017	0.545	R4 Mammal	0.06	0.03
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	86-30-6	n-Nitrosodiphenylamine	0.035	0.0175	0.545	R4 Mammal	0.06	0.03
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	103-65-1	n-Propylbenzene	0.0058	0.0029	10	R4 Dimethylphthalate surr	0.0006	0.0003
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	103-65-1	n-Propylbenzene	0.0056	0.0028	10	R4 Dimethylphthalate surr	0.0006	0.0003
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	103-65-1	n-Propylbenzene	0.0052	0.0026	10	R4 Dimethylphthalate surr	0.0005	0.0003
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	103-65-1	n-Propylbenzene	0.0054	0.0027	10	R4 Dimethylphthalate surr	0.0005	0.0003
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.001	0.0005	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	103-65-1	n-Propylbenzene	0.001	0.0005	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00095	0.000475	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.001	0.0005	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	103-65-1	n-Propylbenzene	0.001	0.0005	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00098	0.00049	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00097	0.000485	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	103-65-1	n-Propylbenzene	0.00096	0.00048	10	R4 Dimethylphthalate surr	0.0001	0.00005
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	98-95-3	Nitrobenzene	0.36	0.18	2.2	R4 Inverts	0.2	0.08
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	98-95-3	Nitrobenzene	0.38	0.19	2.2	R4 Inverts	0.2	0.09
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	98-95-3	Nitrobenzene	0.35	0.175	2.2	R4 Inverts	0.2	0.08
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	98-95-3	Nitrobenzene	0.37	0.185	2.2	R4 Inverts	0.2	0.08
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.036	0.018	2.2	R4 Inverts	0.02	0.008

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	98-95-3	Nitrobenzene	0.034	0.017	2.2	R4 Inverts	0.02	0.008
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	98-95-3	Nitrobenzene	0.035	0.0175	2.2	R4 Inverts	0.02	0.008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	95-47-6	o-Xylene	0.00033	0.000165	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	95-47-6	o-Xylene	0.00032	0.00016	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	95-47-6	o-Xylene	0.00031	0.000155	0.1	R4 xylenes used as a surrog	0.003	0.002
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	99-87-6	p-Cymene	0.0058	0.0029	0.18	R4 Inverts	0.03	0.02
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	99-87-6	p-Cymene	0.0054	0.0027	0.18	R4 Inverts	0.03	0.02
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	99-87-6	p-Cymene	0.0052	0.0026	0.18	R4 Inverts	0.03	0.01
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	99-87-6	p-Cymene	0.0056	0.0028	0.18	R4 Inverts	0.03	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	99-87-6	p-Cymene	0.00026	0.00013	0.18	R4 Inverts	0.001	0.0007
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	99-87-6	p-Cymene	0.00025	0.000125	0.18	R4 Inverts	0.001	0.0007
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	99-87-6	p-Cymene	0.00024	0.00012	0.18	R4 Inverts	0.001	0.0007
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	56-38-2	Parathion	0.021	0.0105	0.00019	R4 Inverts	100	60
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	56-38-2	Parathion	0.019	0.0095	0.00019	R4 Inverts	100	50
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	56-38-2	Parathion	0.019	0.0095	0.00019	R4 Inverts	100	50
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	56-38-2	Parathion	0.02	0.01	0.00019	R4 Inverts	100	50
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.036	0.018	0.5	R4 Mammal	0.07	0.04
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.035	0.0175	0.5	R4 Mammal	0.07	0.04
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	608-93-5	Pentachlorobenzene	0.034	0.017	0.5	R4 Mammal	0.07	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.33	0.165	2.1	Eco-SSL Avian	0.2	0.08
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.35	0.175	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.35	0.175	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.35	0.175	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.35	0.175	2.1	Eco-SSL Avian	0.2	0.08

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.35	0.175	2.1	Eco-SSL Avian	0.2	0.08
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.34	0.17	2.1	Eco-SSL Avian	0.2	0.08
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	87-86-5	Pentachlorophenol	0.33	0.165	2.1	Eco-SSL Avian	0.2	0.08
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	87-86-5	Pentachlorophenol	0.18	0.09	2.1	Eco-SSL Avian	0.09	0.04
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	108-95-2	Phenol	0.07	0.035	0.79	R4 Plants	0.09	0.04
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	108-95-2	Phenol	0.036	0.018	0.79	R4 Plants	0.05	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	108-95-2	Phenol	0.035	0.0175	0.79	R4 Plants	0.04	0.02
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	108-95-2	Phenol	0.034	0.017	0.79	R4 Plants	0.04	0.02
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	100-42-5	Styrene	0.0058	0.0029	1.2	R4 Inverts	0.005	0.002
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	100-42-5	Styrene	0.0054	0.0027	1.2	R4 Inverts	0.005	0.002
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	100-42-5	Styrene	0.0056	0.0028	1.2	R4 Inverts	0.005	0.002
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	100-42-5	Styrene	0.0052	0.0026	1.2	R4 Inverts	0.004	0.002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	100-42-5	Styrene	0.0013	0.00065	1.2	R4 Inverts	0.001	0.0005
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	100-42-5	Styrene	0.0013	0.00065	1.2	R4 Inverts	0.001	0.0005
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0013	0.00065	1.2	R4 Inverts	0.001	0.0005
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	100-42-5	Styrene	0.0013	0.00065	1.2	R4 Inverts	0.001	0.0005
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	100-42-5	Styrene	0.0012	0.0006	1.2	R4 Inverts	0.001	0.0005
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	100-42-5	Styrene	0.001	0.0005	1.2	R4 Inverts	0.0008	0.0004
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	127-18-4	Tetrachloroethene	0.0058	0.0029	0.06	R4 Inverts	0.1	0.05
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	127-18-4	Tetrachloroethene	0.0052	0.0026	0.06	R4 Inverts	0.09	0.04
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	127-18-4	Tetrachloroethene	0.0054	0.0027	0.06	R4 Inverts	0.09	0.05
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	127-18-4	Tetrachloroethene	0.0056	0.0028	0.06	R4 Inverts	0.09	0.05
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	127-18-4	Tetrachloroethene	0.001	0.0005	0.06	R4 Inverts	0.02	0.008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00029	0.000145	0.06	R4 Inverts	0.005	0.002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00029	0.000145	0.06	R4 Inverts	0.005	0.002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00029	0.000145	0.06	R4 Inverts	0.005	0.002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00029	0.000145	0.06	R4 Inverts	0.005	0.002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	127-18-4	Tetrachloroethene	0.00028	0.00014	0.06	R4 Inverts	0.005	0.002
SA27-0.5	SA27-0.5	11/2/2006	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.1	0.05	81.2	LANL Plant (TPH surr)	0.001	0.0006
SA24-0.5	SA24-0.5	11/3/2006	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.12	0.06	81.2	LANL Plant (TPH surr)	0.001	0.0007
SA26-0.5	SA26-0.5	11/20/2006	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.11	0.055	81.2	LANL Plant (TPH surr)	0.001	0.0007
SA25-0.5	SA25-0.5	11/3/2006	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.11	0.055	81.2	LANL Plant (TPH surr)	0.001	0.0007
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-01	TSB-AR-01-0	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.031	0.0155	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-02	TSB-AR-02-0	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-04	TSB-AR-04-0	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-05	TSB-AR-05-0	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-06	TSB-AR-06-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-07	TSB-AR-07-0	9/5/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-08	TSB-AR-08-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-10	TSB-AR-10-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-11	TSB-AR-11-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-12	TSB-AR-12-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-13	TSB-AR-13-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-14	TSB-AR-14-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-3	TSB-AR-3-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-AR-9	TSB-AR-9-0	9/6/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-02	TSB-BR-02-0	9/10/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-03	TSB-BR-03-0	9/10/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.031	0.0155	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-04	TSB-BR-04-0	9/10/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.03	0.015	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-05	TSB-BR-05-0	9/10/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
TSB-BR-06	TSB-BR-06-0	9/7/2007	TPH	1	TPH-gasolin	Total petroleum hydrocarbon-ga	0.029	0.0145	81.2	LANL Plant (TPH surr)	0.0004	0.0002
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	8001-35-2	Toxaphene	0.058	0.029	0.00015	R4 Inverts	400	200
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	8001-35-2	Toxaphene	0.054	0.027	0.00015	R4 Inverts	400	200
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	8001-35-2	Toxaphene	0.056	0.028	0.00015	R4 Inverts	400	200
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	8001-35-2	Toxaphene	0.052	0.026	0.00015	R4 Inverts	300	200
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	8001-35-2	Toxaphene	0.021	0.0105	0.00015	R4 Inverts	100	70

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0077	0.00385	0.00015	R4 Inverts	50	30
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0076	0.0038	0.00015	R4 Inverts	50	30
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.0058	0.0029	0.04	R4 Inverts	0.1	0.07
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.0052	0.0026	0.04	R4 Inverts	0.1	0.06
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.0054	0.0027	0.04	R4 Inverts	0.1	0.07
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.0056	0.0028	0.04	R4 Inverts	0.1	0.07
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.002	0.001	0.04	R4 Inverts	0.05	0.02
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00024	0.00012	0.04	R4 Inverts	0.006	0.003
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00023	0.000115	0.04	R4 Inverts	0.006	0.003
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	156-60-5	trans-1,2-Dichloroethene	0.00022	0.00011	0.04	R4 Inverts	0.006	0.003
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	79-01-6	Trichloroethene	0.0058	0.0029	0.06	R4 Inverts	0.1	0.05
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	79-01-6	Trichloroethene	0.0052	0.0026	0.06	R4 Inverts	0.09	0.04
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	79-01-6	Trichloroethene	0.0054	0.0027	0.06	R4 Inverts	0.09	0.05
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	79-01-6	Trichloroethene	0.0056	0.0028	0.06	R4 Inverts	0.09	0.05
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	79-01-6	Trichloroethene	0.001	0.0005	0.06	R4 Inverts	0.02	0.008
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00038	0.00019	0.06	R4 Inverts	0.006	0.003
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	79-01-6	Trichloroethene	0.00038	0.00019	0.06	R4 Inverts	0.006	0.003
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00038	0.00019	0.06	R4 Inverts	0.006	0.003
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	79-01-6	Trichloroethene	0.00038	0.00019	0.06	R4 Inverts	0.006	0.003
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	79-01-6	Trichloroethene	0.00037	0.000185	0.06	R4 Inverts	0.006	0.003

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	79-01-6	Trichloroethene	0.00036	0.00018	0.06	R4 Inverts	0.006	0.003
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-69-4	Trichlorofluoromethane	0.0058	0.0029	16.4	R4 Mammal	0.0004	0.0002
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-69-4	Trichlorofluoromethane	0.0052	0.0026	16.4	R4 Mammal	0.0003	0.0002
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-69-4	Trichlorofluoromethane	0.0054	0.0027	16.4	R4 Mammal	0.0003	0.0002
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-69-4	Trichlorofluoromethane	0.0056	0.0028	16.4	R4 Mammal	0.0003	0.0002
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00053	0.000265	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00053	0.000265	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00053	0.000265	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00053	0.000265	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00052	0.00026	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-69-4	Trichlorofluoromethane	0.00051	0.000255	16.4	R4 Mammal	0.00003	0.00002
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	75-01-4	Vinyl chloride	0.0054	0.0027	0.03	R4 Inverts	0.2	0.09
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	75-01-4	Vinyl chloride	0.0058	0.0029	0.03	R4 Inverts	0.2	0.1
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	75-01-4	Vinyl chloride	0.0052	0.0026	0.03	R4 Inverts	0.2	0.09
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	75-01-4	Vinyl chloride	0.0056	0.0028	0.03	R4 Inverts	0.2	0.09
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	75-01-4	Vinyl chloride	0.002	0.001	0.03	R4 Inverts	0.07	0.03
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004

**TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	75-01-4	Vinyl chloride	0.00025	0.000125	0.03	R4 Inverts	0.008	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	75-01-4	Vinyl chloride	0.00024	0.00012	0.03	R4 Inverts	0.008	0.004
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	1330-20-7	Xylenes (total)	0.012	0.006	0.1	R4 Inverts	0.1	0.06
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	1330-20-7	Xylenes (total)	0.01	0.005	0.1	R4 Inverts	0.1	0.05
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	1330-20-7	Xylenes (total)	0.011	0.0055	0.1	R4 Inverts	0.1	0.05
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	1330-20-7	Xylenes (total)	0.011	0.0055	0.1	R4 Inverts	0.1	0.05
PC-70 06	PC-70 06/23/1999	6/23/1999	VOCs	1	1330-20-7	Xylenes (total)	0.001	0.0005	0.1	R4 Inverts	0.01	0.005
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-01	TSB-AR-01-0	9/5/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00091	0.000455	0.1	R4 Inverts	0.009	0.005
TSB-AR-02	TSB-AR-02-0	9/5/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AR-04	TSB-AR-04-0	9/5/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-05	TSB-AR-05-0	9/5/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-06	TSB-AR-06-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-AR-07	TSB-AR-07-0	9/5/2007	VOCs	1	1330-20-7	Xylenes (total)	0.0009	0.00045	0.1	R4 Inverts	0.009	0.005
TSB-AR-08	TSB-AR-08-0	9/6/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-10	TSB-AR-10-0	9/6/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-AR-11	TSB-AR-11-0	9/6/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-12	TSB-AR-12-0	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AR-13	TSB-AR-13-0	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-AR-14	TSB-AR-14-0	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-AR-3	TSB-AR-3-0	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00086	0.00043	0.1	R4 Inverts	0.009	0.004
TSB-AR-9	TSB-AR-9-0	9/6/2007	VOCs	0.99	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004

TABLE H-2a: Location-Specific Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.0009	0.00045	0.1	R4 Inverts	0.009	0.005
TSB-BR-02	TSB-BR-02-0	9/10/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-BR-03	TSB-BR-03-0	9/10/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00091	0.000455	0.1	R4 Inverts	0.009	0.005
TSB-BR-04	TSB-BR-04-0	9/10/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00089	0.000445	0.1	R4 Inverts	0.009	0.004
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00088	0.00044	0.1	R4 Inverts	0.009	0.004
TSB-BR-05	TSB-BR-05-0	9/10/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004
TSB-BR-06	TSB-BR-06-0	9/7/2007	VOCs	1	1330-20-7	Xylenes (total)	0.00087	0.000435	0.1	R4 Inverts	0.009	0.004

Notes:

All concentrations are in mg/kg.

ESV = Ecological screening value

FD = Field duplicate

mg/kg = Milligram per kilogram

R4 = USEPA Region 4 (USEPA R4 2018)

SQL or 1/2 SQL = Sample quantitation limit or one-half sample quantitation limit

surr = surrogate

0.5	HQ<1
1	HQ = 1
10	1 < HQ ≤ 10
100	10 < HQ ≤ 100
1000	100 < HQ

LANL 2020: N3B (Newport News Nuclear BWXT-Los Alamos, LLC), November 2020. "ECORISK Database (Release 4.2)," on CD, Newport News Nuclear BWXT-Los Alamos, LLC, document EM2020-0575, Los Alamos, New M

USEPA 2007: USEPA. 2007. Ecological Soil Screening Levels. <http://www.epa.gov/oswer/riskassessment/ecorisk/ecossl.htm>.

USEPA 2018: USEPA Region 4. 2018. "Region 4 Ecological Risk Assessment Supplemental Guidance". March.

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.18	0.09	0.001	R4 Inverts	200	90
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	8001-35-2	Toxaphene	0.021	0.0105	0.00015	R4 Inverts	100	70
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	87-68-3	Hexachlorobutadiene	0.07	0.035	0.009	R4 Inverts	8	4
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.2	0.1	0.061	R4 Mammal	3	2
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	105-67-9	2,4-Dimethylphenol	0.07	0.035	0.04	R4 Inverts	2	0.9
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.07	0.035	0.03	R4 Inverts	2	1
PC-70_06	PC-70_06/23/1999	6/23/1999	VOCs	1	74-83-9	Bromomethane	0.003	0.0015	0.002	R4 Inverts	2	0.8
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	120-83-2	2,4-Dichlorophenol	0.07	0.035	0.05	R4 Inverts	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	1024-57-3	Heptachlor epoxide	0.00021	0.000105	0.00015	R4 Inverts	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
PC-70_06	PC-70_06/23/1999	6/23/1999	OCPs	1	72-43-5	Methoxychlor	0.0021	0.00105	0.0021	R4 Inverts	1	0.5
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	121-75-5	Malathion	0.017	0.0085	0.00004	R4 Inverts	400	200
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	8001-35-2	Toxaphene	0.058	0.029	0.00015	R4 Inverts	400	200
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	86-50-0	Guthion	0.015	0.0075	0.00006	R4 Inverts	200	100
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	56-38-2	Parathion	0.021	0.0105	0.00019	R4 Inverts	100	60
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.002	0.001	0.00015	R4 Inverts	10	7
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.023	0.0115	0.003	R4 Inverts	8	4
SA24-0.5	SA24-0.5	11/3/2006	OPPs	1	333-41-5	Diazinon	0.025	0.0125	0.0037	R4 Inverts	7	3
SA24-0.5	SA24-0.5	11/3/2006	VOCs	1	74-83-9	Bromomethane	0.012	0.006	0.002	R4 Inverts	6	3
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	57-74-9	Chlordane (total)	0.012	0.006	0.0029	R4 a-chlordane surr	4	2
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.002	0.001	0.0007	R4 Inverts	3	1
SA24-0.5	SA24-0.5	11/3/2006	SVOCs	1	84-66-2	Diethylphthalate	0.38	0.19	0.25	R4 Inverts	2	0.8
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	959-98-8	Endosulfan I	0.002	0.001	0.0009	R4 Inverts	2	1
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	72-43-5	Methoxychlor	0.0038	0.0019	0.0021	R4 Inverts	2	0.9
SA24-0.5	SA24-0.5	11/3/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.14	0.07	0.098	R4 Avian	1	0.7
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	72-20-8	Endrin	0.002	0.001	0.0014	R4 Avian	1	0.7
SA24-0.5	SA24-0.5	11/3/2006	OCPs	1	76-44-8	Heptachlor	0.002	0.001	0.0016	R4 Inverts	1	0.6
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	121-75-5	Malathion	0.017	0.0085	0.00004	R4 Inverts	400	200
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	8001-35-2	Toxaphene	0.056	0.028	0.00015	R4 Inverts	400	200
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	86-50-0	Guthion	0.015	0.0075	0.00006	R4 Inverts	200	100
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	56-38-2	Parathion	0.02	0.01	0.00019	R4 Inverts	100	50
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0019	0.00095	0.00015	R4 Inverts	10	6
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.023	0.0115	0.003	R4 Inverts	8	4
SA25-0.5	SA25-0.5	11/3/2006	OPPs	1	333-41-5	Diazinon	0.025	0.0125	0.0037	R4 Inverts	7	3
SA25-0.5	SA25-0.5	11/3/2006	VOCs	1	74-83-9	Bromomethane	0.011	0.0055	0.002	R4 Inverts	6	3
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	57-74-9	Chlordane (total)	0.011	0.0055	0.0029	R4 a-chlordane surr	4	2
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0019	0.00095	0.0007	R4 Inverts	3	1
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	959-98-8	Endosulfan I	0.0019	0.00095	0.0009	R4 Inverts	2	1
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	72-43-5	Methoxychlor	0.0037	0.00185	0.0021	R4 Inverts	2	0.9
SA25-0.5	SA25-0.5	11/3/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.14	0.07	0.098	R4 Avian	1	0.7
SA25-0.5	SA25-0.5	11/3/2006	SVOCs	1	84-66-2	Diethylphthalate	0.37	0.185	0.25	R4 Inverts	1	0.7
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	72-20-8	Endrin	0.0019	0.00095	0.0014	R4 Avian	1	0.7
SA25-0.5	SA25-0.5	11/3/2006	OCPs	1	76-44-8	Heptachlor	0.0019	0.00095	0.0016	R4 Inverts	1	0.6
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	121-75-5	Malathion	0.016	0.008	0.00004	R4 Inverts	400	200
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	8001-35-2	Toxaphene	0.054	0.027	0.00015	R4 Inverts	400	200
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	107-21-1	Ethylene glycol	54	27	0.31	R4 Inverts	200	90
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	86-50-0	Guthion	0.014	0.007	0.00006	R4 Inverts	200	100
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	56-38-2	Parathion	0.019	0.0095	0.00019	R4 Inverts	100	50

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0018	0.0009	0.00015	R4 Inverts	10	6
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.022	0.011	0.003	R4 Inverts	7	4
SA26-0.5	SA26-0.5	11/20/2006	VOCs	1	74-83-9	Bromomethane	0.011	0.0055	0.002	R4 Inverts	6	3
SA26-0.5	SA26-0.5	11/20/2006	OPPs	1	333-41-5	Diazinon	0.024	0.012	0.0037	R4 Inverts	6	3
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	57-74-9	Chlordane (total)	0.011	0.0055	0.0029	R4 a-chlordane surr	4	2
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0018	0.0009	0.0007	R4 Inverts	3	1
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	959-98-8	Endosulfan I	0.0018	0.0009	0.0009	R4 Inverts	2	1
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	72-43-5	Methoxychlor	0.0036	0.0018	0.0021	R4 Inverts	2	0.9
SA26-0.5	SA26-0.5	11/20/2006	SVOCs	1	84-66-2	Diethylphthalate	0.36	0.18	0.25	R4 Inverts	1	0.7
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	72-20-8	Endrin	0.0018	0.0009	0.0014	R4 Avian	1	0.6
SA26-0.5	SA26-0.5	11/20/2006	OCPs	1	76-44-8	Heptachlor	0.0018	0.0009	0.0016	R4 Inverts	1	0.6
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	121-75-5	Malathion	0.016	0.008	0.00004	R4 Inverts	400	200
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	8001-35-2	Toxaphene	0.052	0.026	0.00015	R4 Inverts	300	200
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	107-21-1	Ethylene glycol	52	26	0.31	R4 Inverts	200	80
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	86-50-0	Guthion	0.014	0.007	0.00006	R4 Inverts	200	100
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	56-38-2	Parathion	0.019	0.0095	0.00019	R4 Inverts	100	50
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	1024-57-3	Heptachlor epoxide	0.0018	0.0009	0.00015	R4 Inverts	10	6
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	2921-88-2	Chlorpyrifos	0.021	0.0105	0.003	R4 Inverts	7	4
SA27-0.5	SA27-0.5	11/2/2006	OPPs	1	333-41-5	Diazinon	0.023	0.0115	0.0037	R4 Inverts	6	3
SA27-0.5	SA27-0.5	11/2/2006	VOCs	1	74-83-9	Bromomethane	0.01	0.005	0.002	R4 Inverts	5	2
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	57-74-9	Chlordane (total)	0.01	0.005	0.0029	R4 a-chlordane surr	3	2
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	1031-07-8	Endosulfan sulfate	0.0018	0.0009	0.0007	R4 Inverts	3	1
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	959-98-8	Endosulfan I	0.0018	0.0009	0.0009	R4 Inverts	2	1
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	72-43-5	Methoxychlor	0.0035	0.00175	0.0021	R4 Inverts	2	0.8
SA27-0.5	SA27-0.5	11/2/2006	General Chemistry	1	57-12-5	Cyanide (total)	0.13	0.065	0.098	R4 Avian	1	0.7
SA27-0.5	SA27-0.5	11/2/2006	SVOCs	1	84-66-2	Diethylphthalate	0.35	0.175	0.25	R4 Inverts	1	0.7
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	72-20-8	Endrin	0.0018	0.0009	0.0014	R4 Avian	1	0.6
SA27-0.5	SA27-0.5	11/2/2006	OCPs	1	76-44-8	Heptachlor	0.0018	0.0009	0.0016	R4 Inverts	1	0.6
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-01	TSB-AJ-01-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.33	0.165	0.001	R4 Inverts	300	200
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.33	0.165	0.061	R4 Mammal	5	3
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-02	TSB-AJ-02-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-02	TSB-AJ-02-0(FD)	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AJ-03	TSB-AJ-03-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AR-01	TSB-AR-01-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0077	0.00385	0.00015	R4 Inverts	50	30
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.036	0.018	0.002	R4 Inverts	20	9
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.036	0.018	0.01	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.036	0.018	0.009	R4 Inverts	4	2
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.036	0.018	0.02	R4 Inverts	2	0.9
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.036	0.018	0.024	R4 Inverts	2	0.8
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.13	0.065	0.1	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0(FD)	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.036	0.018	0.03	R4 Inverts	1	0.6
TSB-AR-01	TSB-AR-01-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-02	TSB-AR-02-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-02	TSB-AR-02-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-04	TSB-AR-04-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-04	TSB-AR-04-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-05	TSB-AR-05-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-05	TSB-AR-05-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-06	TSB-AR-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-06	TSB-AR-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-06	TSB-AR-06-0(FD)	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-AR-07	TSB-AR-07-0	9/5/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-07	TSB-AR-07-0	9/5/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-08	TSB-AR-08-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-08	TSB-AR-08-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-10	TSB-AR-10-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-10	TSB-AR-10-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-11	TSB-AR-11-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-11	TSB-AR-11-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-11	TSB-AR-11-0(FD)	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-12	TSB-AR-12-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-12	TSB-AR-12-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-13	TSB-AR-13-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniiline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-13	TSB-AR-13-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-14	TSB-AR-14-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniiline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-AR-14	TSB-AR-14-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-3	TSB-AR-3-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniiline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-3	TSB-AR-3-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-AR-9	TSB-AR-9-0	9/6/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	88-74-4	2-Nitroaniiline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-AR-9	TSB-AR-9-0	9/6/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniiline	0.034	0.017	0.02	R4 Inverts	2	0.8

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BJ-01	TSB-BJ-01-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BJ-02	TSB-BJ-02-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0075	0.00375	0.00015	R4 Inverts	50	20
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BJ-06	TSB-BJ-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-02	TSB-BR-02-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-02	TSB-BR-02-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.35	0.175	0.001	R4 Inverts	400	200
TSB-BR-03	TSB-BR-03-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0076	0.0038	0.00015	R4 Inverts	50	30
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.35	0.175	0.061	R4 Mammal	6	3
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.13	0.065	0.1	R4 Inverts	1	0.6
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BR-03	TSB-BR-03-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-04	TSB-BR-04-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0074	0.0037	0.00015	R4 Inverts	50	20
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.035	0.0175	0.002	R4 Inverts	20	9
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8

TABLE H-2b: Location-Specific Evaluation of Sample Quantitation Limits that Exceed Ecological Screening Values for Chemicals Not Detected Sorted by Location: OU-2 Nevada Environmental Response Trust Site Henderson, Nevada

Location	Sample ID	Sample Date	Group	Dilution Factor	CASRN	Chemical Name	SQL	1/2 SQL	ESV	ESV Source	Ratio of SQL/ESV	Ratio of 1/2 SQL/ESV
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.035	0.0175	0.01	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.035	0.0175	0.009	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.035	0.0175	0.02	R4 Inverts	2	0.9
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.035	0.0175	0.03	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-04	TSB-BR-04-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.035	0.0175	0.024	R4 Inverts	1	0.7
TSB-BR-04	TSB-BR-04-0(FD)	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.34	0.17	0.001	R4 Inverts	300	200
TSB-BR-05	TSB-BR-05-0	9/10/2007	OCPs	1	8001-35-2	Toxaphene	0.0073	0.00365	0.00015	R4 Inverts	50	20
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.34	0.17	0.061	R4 Mammal	6	3
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-05	TSB-BR-05-0	9/10/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	77-47-4	Hexachlorocyclopentadiene	0.33	0.165	0.001	R4 Inverts	300	200
TSB-BR-06	TSB-BR-06-0	9/7/2007	OCPs	1	8001-35-2	Toxaphene	0.0072	0.0036	0.00015	R4 Inverts	50	20
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	100-51-6	Benzyl alcohol	0.034	0.017	0.002	R4 Inverts	20	8
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	51-28-5	2,4-Dinitrophenol	0.33	0.165	0.061	R4 Mammal	5	3
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	87-68-3	Hexachlorobutadiene	0.034	0.017	0.009	R4 Inverts	4	2
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	65-85-0	Benzoic acid	0.034	0.017	0.01	R4 Inverts	3	2
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	88-74-4	2-Nitroaniline	0.034	0.017	0.02	R4 Inverts	2	0.8
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	95-48-7	2-Methylphenol	0.12	0.06	0.1	R4 Inverts	1	0.6
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	91-94-1	3,3'-Dichlorobenzidine	0.034	0.017	0.03	R4 Inverts	1	0.6
TSB-BR-06	TSB-BR-06-0	9/7/2007	SVOCs	1	67-72-1	Hexachloroethane	0.034	0.017	0.024	R4 Inverts	1	0.7

Notes:

All concentrations are in mg/kg.
 ESV = Ecological screening value
 FD = Field duplicate
 mg/kg = Milligram per kilogram
 R4 = USEPA Region 4 (USEPA R4 2018)
 SQL or 1/2 SQL = Sample quantitation limit or one-half sample quantitation limit
 surr = surrogate

0.5	HQ<1
1	HQ = 1
10	1 < HQ ≤ 10
100	10 < HQ ≤ 100
1000	100 < HQ

USEPA 2018: USEPA Region 4. 2018. "Region 4 Ecological Risk Assessment Supplemental Guidance". March.

TABLE H-2c: Summary of Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2

Nevada Environmental Response Trust Site
Henderson, Nevada

Group	Chemical Name	ESV ^{a,b}	Sample Count	Maximum SQL	Fraction of Exceedances	Maximum SQL HQ
OCPs	Toxaphene	0.00015	35	0.058	100%	400
OPPs	Malathion	0.00004	4	0.017	100%	400
SVOCs	Hexachlorocyclopentadiene	0.001	31	0.35	100%	400
OPPs	Guthion	0.00006	4	0.015	100%	300
VOCs	Ethylene glycol	0.31	2	54	100%	200
OPPs	Parathion	0.00019	4	0.021	100%	100
SVOCs	Benzyl alcohol	0.002	30	0.036	100%	20
OPPs	Chlorpyrifos	0.003	4	0.023	100%	8
OPPs	Diazinon	0.0037	4	0.025	100%	7
SVOCs	2,4-Dinitrophenol	0.061	31	0.35	100%	6
SVOCs	Benzoic acid	0.01	30	0.036	100%	4
SVOCs	2-Nitroaniline	0.02	31	0.036	100%	2
SVOCs	Hexachlorobutadiene	0.009	35	0.07	89%	8
VOCs	Bromomethane	0.002	35	0.012	14%	6
OCPs	Chlordane (total)	0.0029	34	0.012	12%	4
OCPs	Heptachlor epoxide	0.00015	35	0.002	11%	10
OCPs	Endosulfan sulfate	0.0007	35	0.002	11%	3
OCPs	Methoxychlor	0.0021	35	0.0038	11%	2
OCPs	Endosulfan I	0.0009	35	0.002	11%	2
SVOCs	2,4-Dimethylphenol	0.04	31	0.07	3%	2
SVOCs	Hexachloroethane	0.024	31	0.036	3%	2
SVOCs	3,3'-Dichlorobenzidine	0.03	31	0.07	3%	2
SVOCs	Diethylphthalate	0.25	35	0.38	3%	2
General Chemistry	Cyanide (total)	0.098	3	0.14	0%	1
OCPs	Endrin	0.0014	35	0.002	0%	1
OCPs	Heptachlor	0.0016	35	0.002	0%	1
SVOCs	2,4-Dichlorophenol	0.05	31	0.07	0%	1
SVOCs	2-Methylphenol	0.1	31	0.13	0%	1
PCBs	Aroclor-1260	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1254	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1221	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1232	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1248	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1016	0.041	5	0.038	0%	0.9
PCBs	Aroclor-1242	0.041	5	0.038	0%	0.9
SVOCs	4-Methylphenol	0.08	1	0.07	0%	0.9
OCPs	alpha-Chlordane	0.0029	35	0.002	0%	0.7
OCPs	gamma-BHC	0.0031	35	0.002	0%	0.6
SVOCs	2-Chlorophenol	0.06	31	0.036	0%	0.6
VOCs	Carbon disulfide	0.005	31	0.003	0%	0.6
SVOCs	Carbazole	0.07	31	0.036	0%	0.5
OCPs	Dieldrin	0.0049	35	0.002	0%	0.4
OCPs	Dinoseb	0.015	1	0.0054	0%	0.4
SVOCs	Di-n-octylphthalate	0.91	35	0.38	0%	0.4
VOCs	1,3-Dichlorobenzene	0.08	35	0.035	0%	0.4
VOCs	1,2-Dichlorobenzene	0.09	35	0.035	0%	0.4
SVOCs	Dibenzofuran	0.15	31	0.036	0%	0.2
SVOCs	Pentachlorophenol	2.1	31	0.35	0%	0.2
SVOCs	1,2,4,5-Tetrachlorobenzene	0.18	30	0.036	0%	0.2
SVOCs	Nitrobenzene	2.2	35	0.38	0%	0.2
VOCs	Vinyl chloride	0.03	35	0.0058	0%	0.2
OCPs	gamma-Chlordane	0.02	35	0.002	0%	0.1
OCPs	4,4'-DDD	0.021	35	0.002	0%	0.1
VOCs	1,2,4-Trichlorobenzene	0.27	35	0.035	0%	0.1
VOCs	Tetrachloroethene	0.06	35	0.0058	0%	0.1
VOCs	Xylenes (total)	0.1	35	0.012	0%	0.1
VOCs	cis-1,2-Dichloroethene	0.04	35	0.0058	0%	0.1
VOCs	trans-1,2-Dichloroethene	0.04	35	0.0058	0%	0.1
VOCs	Carbon tetrachloride	0.05	35	0.0058	0%	0.1
VOCs	Chloroform	0.05	35	0.0058	0%	0.1
VOCs	1,1,1-Trichloroethane	0.04	35	0.0058	0%	0.1
VOCs	1,1-Dichloroethene	0.04	35	0.0058	0%	0.1
VOCs	Trichloroethene	0.06	35	0.0058	0%	0.1
VOCs	Cumene	0.04	34	0.0058	0%	0.1
SVOCs	Phenol	0.79	31	0.07	0%	0.09
VOCs	1,1,1,2-Tetrachloroethane	0.07	34	0.0058	0%	0.08
VOCs	Bromoform	0.07	35	0.0058	0%	0.08
OCPs	Aldrin	0.03	35	0.002	0%	0.07
SVOCs	4-Nitrophenol	5.12	31	0.35	0%	0.07
SVOCs	Pentachlorobenzene	0.5	30	0.036	0%	0.07
SVOCs	n-Nitrosodiphenylamine	0.545	31	0.036	0%	0.07
VOCs	Benzene	0.12	35	0.0058	0%	0.05

TABLE H-2c: Summary of Evaluation of Sample Quantitation Limits for Chemicals Not Detected with Ecological Screening Values: OU-2

Nevada Environmental Response Trust Site
Henderson, Nevada

Group	Chemical Name	ESV ^{a,b}	Sample Count	Maximum SQL	Fraction of Exceedances	Maximum SQL HQ
VOCs	1,1,2,2-Tetrachloroethane	0.127	35	0.0058	0%	0.05
SVOCs	4-Chloroaniline	1	31	0.036	0%	0.04
SVOCs	Dimethylphthalate	10	35	0.38	0%	0.04
VOCs	1,4-Dichlorobenzene	0.89	35	0.035	0%	0.04
VOCs	1,3,5-Trimethylbenzene	0.16	34	0.0058	0%	0.04
VOCs	1,1-Dichloroethane	0.14	35	0.0058	0%	0.04
VOCs	2-Hexanone	0.36	35	0.012	0%	0.03
VOCs	Methylene Chloride	0.21	35	0.0058	0%	0.03
VOCs	p-Cymene	0.18	34	0.0058	0%	0.03
OCPs	2,4,5-TP	0.055	1	0.001	0%	0.02
SVOCs	2,4,5-Trichlorophenol	4	31	0.07	0%	0.02
VOCs	1,2-Dichloropropane	0.28	35	0.0058	0%	0.02
VOCs	1,1,2-Trichloroethane	0.32	35	0.0058	0%	0.02
SVOCs	2,4-Dinitrotoluene	6	31	0.07	0%	0.01
VOCs	1,2-Dichloroethane	0.4	35	0.0058	0%	0.01
VOCs	1,3,5-Trichlorobenzene	0.07	30	0.00072	0%	0.01
VOCs	1,2-Dichloroethylene	0.04	30	0.00058	0%	0.01
VOCs	2-Butanone	1	35	0.012	0%	0.01
SVOCs	2,6-Dinitrotoluene	4	31	0.036	0%	0.009
SVOCs	2,4,6-Trichlorophenol	9.94	31	0.07	0%	0.007
VOCs	Methyl iodide	0.038	30	0.00027	0%	0.007
OCPs	2,4-DDD	0.021	30	0.00012	0%	0.006
VOCs	Styrene	1.2	35	0.0058	0%	0.005
VOCs	o-Xylene	0.1	30	0.00033	0%	0.003
VOCs	Chlorobenzene	2.4	35	0.0058	0%	0.002
TPH	Total petroleum hydrocarbon-gasoline	81.2	34	0.12	0%	0.001
VOCs	n-Propylbenzene	10	34	0.0058	0%	0.0006
VOCs	n-Butylbenzene	10	34	0.0058	0%	0.0006
VOCs	Trichlorofluoromethane	16.4	34	0.0058	0%	0.0004
VOCs	1,2,3-Trichlorobenzene	20	34	0.0058	0%	0.0003

Notes:

a. ESV sources are provided in Table 2-4a.

b. Concentrations are in mg/kg.

ESV = Ecological screening value

HQ = Hazard quotient

mg/kg = Milligram per kilogram

SQL = Sample quantitation limit

0.5	HQ < 1
1	HQ = 1
10	1 < HQ ≤ 10
100	10 < HQ ≤ 100
1000	100 < HQ

APPENDIX H-3
SUMMARY OF CHEMICALS NOT DETECTED LACKING ESVS

Table H-3 Summary of Chemicals Not Detected Lacking ESVs: OU-2

**TABLE H-3: Summary of Chemicals Not Detected Lacking ESVs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	CASRN	Sample Count
General Chemistry	Ammonia (as N)	7664-41-7	4
OCPs	2,4-D	94-75-7	1
OCPs	2,4,5-T	93-76-5	1
OCPs	Dalapon	75-99-0	1
OCPs	delta-BHC	319-86-8	35
OCPs	Dichloroprop	120-36-5	1
OCPs	Endosulfan II	33213-65-9	35
OCPs	Endrin ketone	53494-70-5	35
OCPs	Mecoprop	7085-19-0	1
OPPs	Coumaphos	56-72-4	4
OPPs	Dasanit	115-90-2	4
OPPs	Demeton-O	298-03-3	4
OPPs	Demeton-S	126-75-0	4
OPPs	Dichlorovos	62-73-7	4
OPPs	Dimethoate	60-51-5	4
OPPs	Disulfoton	298-04-4	4
OPPs	EPN	2104-64-5	4
OPPs	Ethoprop	13194-48-4	4
OPPs	Famphur	52-85-7	4
OPPs	Fenthion	55-38-9	4
OPPs	Merphos	150-50-5	4
OPPs	Methyl parathion	298-00-0	4
OPPs	Mevinphos	7786-34-7	4
OPPs	Naled	300-76-5	4
OPPs	Phorate	298-02-2	4
OPPs	Prothiophos	34643-46-4	4
OPPs	Ronnel	299-84-3	4
OPPs	Stiropfos	22248-79-9	4
OPPs	Sulfotepp	3689-24-5	4
OPPs	Sulprofos	35400-43-2	4
OPPs	Thionazin	297-97-2	4
OPPs	Trichloronate	327-98-0	4
Other	2,2'-/4,4'-Dichlorobenzil	Dichlorobenzil	30
Other	4-Chlorothioanisole	123-09-1	30
Other	bis(p-Chlorophenyl) disulfide	1142-19-4	30
Other	bis(p-Chlorophenyl) sulfone	80-07-9	30
Other	Diphenyl sulfone	127-63-9	30
Other	Hydroxymethyl phthalimide	118-29-6	30
Other	p-chlorothiophenol	106-54-7	30
Other	Phenyl Disulfide	882-33-7	30
SVOCs	1,4-Dioxane	123-91-1	34
SVOCs	2-Chloronaphthalene	91-58-7	31
SVOCs	2-Nitrophenol	88-75-5	31
SVOCs	3-Methylphenol & 4-Methylphenol	65794-96-9	30
SVOCs	3-Nitroaniline	99-09-2	31
SVOCs	4-Bromophenyl-phenyl ether	101-55-3	31
SVOCs	4-Chloro-3-methylphenol	59-50-7	31
SVOCs	4-Chlorophenyl-phenyl ether	7005-72-3	31
SVOCs	4-Nitroaniline	100-01-6	31
SVOCs	4,6-Dinitro-2-methylphenol	534-52-1	1
SVOCs	Aniline	62-53-3	30
SVOCs	Benzenethiol	108-98-5	30
SVOCs	bis(2-Chloro-1-methylethyl) ether	108-60-1	31
SVOCs	bis(2-Chloroethoxy)methane	111-91-1	31
SVOCs	bis(2-Chloroethyl) ether	111-44-4	31
SVOCs	Isophorone	78-59-1	31
SVOCs	n-Nitroso-di-n-propylamine	621-64-7	31
SVOCs	Octachlorostyrene	29082-74-4	34
SVOCs	Phthalic acid	88-99-3	30
SVOCs	Pyridine	110-86-1	34
VOCs	1-Nonanal	124-19-6	30
VOCs	1,1-Dichloropropene	563-58-6	34
VOCs	1,2-Dibromo-3-chloropropane	96-12-8	34
VOCs	1,2-Dibromoethane	106-93-4	4
VOCs	1,2-Diphenylhydrazine	122-66-7	30
VOCs	1,2,3-Trichloropropane	96-18-4	34

**TABLE H-3: Summary of Chemicals Not Detected Lacking ESVs: OU-2
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical Group	Chemical Name	CASRN	Sample Count
VOCs	1,3-Dichloropropane	142-28-9	34
VOCs	2-Chlorotoluene	95-49-8	34
VOCs	2-Methyl-Hexane	591-76-4	30
VOCs	2-Nitropropane	79-46-9	30
VOCs	2,2-Dichloropropane	594-20-7	34
VOCs	2,2-Dimethylpentane	590-35-2	30
VOCs	2,2,3-Trimethylbutane	464-06-2	30
VOCs	2,3-Dimethylpentane	565-59-3	30
VOCs	2,4-Dimethylpentane	108-08-7	30
VOCs	3-Ethylpentane	617-78-7	30
VOCs	3-Methylhexane	589-34-4	30
VOCs	3,3-Dimethylpentane	562-49-2	30
VOCs	4-Chlorotoluene	106-43-4	34
VOCs	Acetonitrile	75-05-8	30
VOCs	Acetophenone	98-86-2	30
VOCs	Azobenzene	103-33-3	30
VOCs	Bromobenzene	108-86-1	34
VOCs	Bromochloromethane	74-97-5	34
VOCs	Bromodichloromethane	75-27-4	35
VOCs	Chlorinated fluorocarbon (Freon 113)	76-13-1	30
VOCs	Chloroethane	75-00-3	35
VOCs	Chloromethane	74-87-3	35
VOCs	cis-1,3-Dichloropropene	10061-01-5	35
VOCs	Dibromochloromethane	124-48-1	35
VOCs	Dibromomethane	74-95-3	34
VOCs	Dichlorodifluoromethane	75-71-8	34
VOCs	Diisopropyl ether	108-20-3	4
VOCs	Ethanol	64-17-5	32
VOCs	Ethyl tert-butyl ether	637-92-3	4
VOCs	m,p-Xylene	136777-61-2	30
VOCs	Methanol	67-56-1	2
VOCs	Methyl disulfide	624-92-0	30
VOCs	Methyl tert-butyl ether	1634-04-4	34
VOCs	n-Heptane	142-82-5	30
VOCs	Phenyl Sulfide	139-66-2	30
VOCs	sec-Butylbenzene	135-98-8	34
VOCs	t-Amyl methyl ether	994-05-8	4
VOCs	tert-Butylbenzene	98-06-6	34
VOCs	tert Butyl alcohol	75-65-0	4
VOCs	trans-1,3-Dichloropropene	10061-02-6	35
VOCs	Vinyl acetate	108-05-4	30

Notes:

- BHC = Benzene hexachloride
- CASRN = Chemical Abstract Service Registry Number
- EPN = O-Ethyl O-(4-nitrophenyl) phenylphosphonothioate
- ESVs = Ecological screening values
- OCPs = Organochlorine pesticides
- OPPs = Organophosphate pesticides
- SVOCs = Semivolatile organic compounds
- VOCs = Volatile organic compounds

Refined Screening Level Ecological Risk Assessment
for Operable Unit-2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX H-4
UNCERTAINTIES ASSOCIATED WITH DIOXIN AND FURAN
BIOACCUMULATION FACTORS FOR SOIL INVERTEBRATES

Prepared for
Nevada Environmental Response Trust

Project Number
1690020169-008

Prepared by
Ramboll
Emeryville, California

Date
July 2021

**UNCERTAINTIES ASSOCIATED WITH DIOXIN
AND FURAN BIOACCUMULATION FACTORS FOR
SOIL INVERTEBRATES**
**NEVADA ENVIRONMENTAL RESPONSE TRUST SITE
HENDERSON, NEVADA**

Uncertainties Associated with Dioxin and Furan Bioaccumulation Factors for Soil Invertebrates
Nevada Environmental Response Trust Site
Henderson, Nevada

Date **July 2021**

Description **Uncertainties Assessment**

Project No 1690020169-008

CONTENTS

1.	INTRODUCTION	1
2.	LITERATURE UPTAKE FACTORS	2
2.1	Calculated Using Eco-SSL Guidance	2
2.2	USEPA Region 6	4
2.3	Earthworms Versus Terrestrial Insects	4
2.4	Uptake Values for Insects From Literature	4
2.5	BAFs Also Vary With TEQ Concentration	6
2.6	Summary of Uptake Factors	7
3.	THE EFFECT OF BAFS ON THE FOOD WEB MODEL	9
4.	UNCERTAINTIES	10
5.	REFERENCES	11

TABLES

Table J4-1	Operations Area Soil TOC Values
Table J4-2	Calculation of Eco-SSL-based Uptake Factors for Dioxins and Furans Based on Soil TOC
Table J4-3	Uptake Factors for Dioxins and Furans From Literature
Table J4-4	Operations Area Soil TEQ Values
Table J4-5	Food Web Uptake Factors For Dioxins and Furans in Soil
Table J4-6	Operations Area Exposure Point Concentrations for Dioxin and Furan TEQs
Table J4-7	Summary of Wildlife Food Web Input Variables and Receptor Parameters
Table J4-8	Dioxin and Furan Toxicity Reference Values for Mammals and Birds
Table J4-9a	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Western Burrowing Owl: Operations Area
Table J4-9b	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for American Robin: Operations Area
Table J4-9c	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Desert Shrew: Operations Area
Table J4-9c	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Fringed Myotis Bat: Operations Area
Table J4-9e	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Raccoon: Operations Area
Table J4-9f	Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Great Basin Pocket Mouse: Operations Area
Table J4-10	Summary of Hazard Quotients

FIGURES

Figure J4-1	TOC in Operations Area Soil Samples from Lowest to Highest
Figure J4-2	TCDD TEQ Uptake Based on Operations Area TOC Sample Concentrations

ACRONYMS AND ABBREVIATIONS

95% UCL	95 th percentile upper confidence limit of the mean
AUF	area use factor
BAF	bioaccumulation factor
C _s	concentration in soil
C _w	concentration in soil pore water
C _{worm}	concentration in worm
DL	detection limit
dw	dry weight
Eco-SSL	ecological soil screening level
EPC	exposure point concentration
f _{oc}	fraction of organic carbon in soil
FWM	food web model
HQ	hazard quotient
IP	Imerman Park
K _d	soil to water partitioning coefficient
K _{oc}	organic carbon to water partitioning coefficient
K _{ow}	octanol-water partitioning coefficient
K _{ww}	biota to soil water partitioning coefficient
L	liter
LOAEL	lowest observed adverse effects level
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
ND	nondetects
ng/kg	nanograms per kilogram
NOAEL	no observed adverse effects level
OU-1	Operable Unit 1
SLERA	screening level ecological risk assessment
TCDD	2,3,7,8-tetrachlorodibenzodioxin
TEQ	toxicity equivalents quotient
TOC	total organic carbon
TRV	toxicity reference value
TTP	Titabawassee Township Park
USEPA	United States Environmental Protection Agency
ww	wet weight

1. INTRODUCTION

The uptake of 2,3,7,8-tetrachlorodibenzodioxin toxicity equivalents (TCDD TEQs) used in the OU-1 Refined Screening-Level Ecological Risk Assessment (OU-1 refined SLERA) for the Operable Unit 1 (OU-1) Refined SLERA Area is a value that is uncertain and therefore, this uncertainty assessment is provided in this appendix.

This appendix explores and describes the uncertainties around the uptake value used in the OU-1 refined SLERA and shows what the hazard quotients (HQs) would be if other bioaccumulation factors (BAFs) were used¹. The majority of BAFs for uptake from soil to earthworms are based on models for highly exposed soil invertebrates, such as earthworms. Due to the habitat present at OU-1, earthworms are not likely to be the primary soil invertebrates eaten by soil invertebrate mammals and birds. The BAFs described in this appendix range over four orders of magnitude and affect the food web model provided in the OU-1 refined SLERA. This appendix provides an uncertainty analysis showing the influence of BAFs on the the estimated risks from dioxins and furans

The remainder of this appendix is organized as follows:

- Section 2.0 – Literature Uptake Factors
- Section 3.0 – The Effect of Invertebrate BAFs on the Food Web Model
- Section 4.0 – Uncertainties
- Section 5.0 – References

¹ Total organic carbon (TOC) concentrations were available for the Operations Area but were not available for Parcel E. As such, this uncertainty section focuses on the Operations Area of OU-1, but is also applicable to Parcel E.

2. LITERATURE UPTAKE FACTORS

2.1 Calculated Using Eco-SSL Guidance

The United States Environmental Protection Agency's Ecological Soil Screening Level (USEPA Eco-SSL) guidance document (USEPA 2007) develops a mathematical approximation for uptake factors of non-ionic organic constituents from soil into earthworms based on a series of equations that take into account the octanol-water partitioning coefficient (K_{ow}), the lipid fraction of the earthworms, the organic carbon content of the soil, and the soil organic carbon (total organic carbon or TOC) to water partitioning coefficient (K_{oc}). This means that the uptake of dioxins and furans (as well as other hydrophobic persistent organic pollutants) is governed by the balance between the organic carbon in the soil and the lipids of the receptor mediated by the amount of the constituent that can be dissolved in soil porewater.

The USEPA (2007) states:

$$C_{worm} = K_{ww} \times C_w \quad (\text{Equation 1})$$

Where:

C_{worm} = concentration in worm in milligrams per kilogram wet weight (mg/kg ww)

K_{ww} = biota to soil water partitioning coefficient in liters per kilogram wet weight tissue (L soil pore water/kg ww tissue)

C_w = concentration in soil pore water in milligrams per liter (mg/L)

Note that the Eco-SSL also includes a conversion to dry weight. As the food web model for this project was built using a wet-weight animal diet, that conversion is not needed here.

And K_{ww} is calculated from the following equation:

$$\text{Log}(K_{ww}) = 0.87 \times \text{Log}(K_{ow}) - 2 \quad (\text{Equation 2})$$

Where:

K_{ow} = octanol-water partitioning coefficient

The concentration of the constituent in soil pore water is calculated as:

$$C_w = \frac{C_s}{K_d} \quad (\text{Equation 3})$$

Where:

C_w = Concentration in soil porewater (mg/L)

C_s = Concentration in soil (mg/kg dry weight [dw] soil)

K_d = soil to water partitioning coefficient (L soil pore water/kg dw soil)

And:

$$K_d = f_{oc} \times K_{oc} \quad (\text{Equation 4})$$

Where

f_{oc} = fraction of organic carbon in soil (kg organic carbon/kg soil)

K_{oc} = soil organic carbon to water partitioning coefficient (L soil pore water/kg organic carbon)

Equations 1, 3, and 4 can be combined as:

$$C_{worm} = \frac{K_{ww} \times C_{soil}}{f_{oc} \times K_{oc}} \quad (\text{Equation 5})$$

Equation 5 can be rearranged to isolate C_{soil} so that the latter half of the equation functions as a BAF.

$$C_{worm} = C_{soil} \times \left(\frac{K_{ww}}{f_{oc} \times K_{oc}} \right) \quad (\text{Equation 6})$$

Equation 2 can then be rearranged to solve for K_{ww} :

$$K_{ww} = 10^{(0.87 \times \text{Log}(K_{ow}) - 2)} \quad (\text{Equation 7})$$

This mathematical approach is suitable for TCDD TEQs. The $\text{log}(K_{ow})$ for (TCDD) is 6.8 (USEPA 2000), so K_{ww} from Equation 7 can be calculated as follows:

$$K_{ww} = 10^{(0.87 \times 6.8 - 2)}$$

$$K_{ww} = 8,242$$

The soils in the Operations Area average 0.23% organic carbon, or a f_{oc} of 0.0023.

The K_{oc} for TCDD is 3.98×10^6 (USEPA, 2000).

Therefore, using Equation 4 and solving for K_d results in the following:

$$K_d = f_{oc} \times K_{oc}$$

$$K_d = 0.0023 \times (3.98 \times 10^6)$$

$$K_d = 9,154$$

Therefore, using Equation 6, and solving for C_{worm} :

$$C_{worm} = C_{soil} \times \left(\frac{K_{ww}}{f_{oc} \times K_{oc}} \right) \quad (\text{Equation 8})$$

$$C_{worm} = C_{soil} \times \left(\frac{8,242}{9,154} \right)$$

$$C_{worm} = C_{soil} \times 0.90$$

The site-specific uptake factor for dioxin and furan TEQs (as TCDD) is 0.90 times the concentration in soil, for wet weight earthworms based on the average concentration of TOC in the soil in the Operations Area.

Table J4-1 and Figure J4-1 show the TOC values in the Operations Area. They range from nondetects at a detection limit of 300 mg/kg to 15,800 mg/kg and the average is 2,315 mg/kg. This represents soil that has generally low TOC. Figure J4-2 shows the range of TEQ uptake values represented by these TOC values. The average value of 2,315 mg/kg may not be the best way to characterize the soil in the Operations Area. Table J4-2 and the

table below show the TEQ uptake values calculated for the average, 85th percentile, 95th percentile, 99th percentile, and maximum TOC values. This shows TEQ uptake values can vary across the Operations Area by a factor of nearly 7x just based on the soil TOC concentrations.

f_{oc} Value	Uptake Factor in Wet Weight
Average f _{oc} nondetects counted as 1/2 the detection limit (ND=0.5*DL)	0.90
85th percentile f _{oc} (ND=0.5*DL)	0.40
95th percentile f _{oc} (ND=0.5*DL)	0.24
99th percentile f _{oc} (ND=0.5*DL)	0.17
Maximum f _{oc}	0.13

2.2 USEPA Region 6

Another option for invertebrate TCDD uptake values is the USEPA’s Region 6 compilation of uptake values (USEPA 1999). They suggest a BAF value of 1.59 (for wet weight earthworms) based on an average of two studies that contain a total of 5 different BAFs based on 20 day exposures. Four of those values are based on earthworms.

2.3 Earthworms Versus Terrestrial Insects

The uptake factors to this point have focused on earthworms. Earthworms are an ideal receptor to use for calculation of uptake values. They are relatively large terrestrial invertebrates that provide adequate tissue for analysis, they are easy to collect in the field, they have relatively high uptake values given their close contact with soil and relatively thin cuticle which produces conservatively high uptake values compared to other receptors, and they are ecologically important. However, since Nevada is part of the American desert “*the distribution and presence of earthworms will be closely associated with habitats that remain moist and protected from extreme temperature changes*” (Reynolds 2015). The on-Site soils are mostly sandy, dry, and compacted and provide little moisture and protection for earthworms (see photolog in Appendix B and Section 2.1.2 of the OU-1 Refined SLERA Report). Particularly, the surface of the OU-1 Site is primarily Quaternary alluvial deposits that slope north toward the Wash. The alluvium consists of a reddish-brown heterogeneous mixture of well-graded sand and gravel with lesser amounts of silt, clay, and caliche (Ramboll 2021). Clasts within the alluvium are primarily composed of volcanic material. Boulders and cobbles are common. Caliche (or hardpan) is essentially a type of naturally-occurring concrete where the particles of soil have been cemented together by mineral precipitation that is common in Nevada. This is not the type of soil where earthworms can flourish. Although they are a good, appropriately-conservative starting point, uptake factors for earthworms are not the most appropriate values for this Site.

2.4 Uptake Values for Insects From Literature

Table J4-3 shows uptake values from two studies (Young et al. 1987 and Kay et al. 2005) that specifically have soil and non-earthworm invertebrate concentrations of TCDD that can be used to calculate BAFs.

2.4.1 Calculation of TCDD Uptake Factors (Young et al. 1987)

There is a paucity of TCDD/TEQ uptake factors for terrestrial insects. An intensive field study in Florida measured TCDD in soil and TCDD in insects (Young et al. 1987). Soil concentrations of TCDD were measured in three areas, though the authors state "*most of the racerunners, snakes, toads and soil-borne insects were captured on Grid I*" (Young et al. 1987). TCDD concentrations in insects ranged from not detected in grasshoppers to 238 parts per trillion in beetle grubs. This data allows for calculation of TCDD uptake factors either based on the average soil concentration, or the Grid I soil concentration by dividing the animal concentration by the soil concentration (USEPA 2007 defines a BCF as a factor representing the ratio between the concentration in the food and the concentration in the soil) (as shown in Table J4-3 and the tables shown below). Grid I is of particular interest because that is where the author found the bulk of the insects.

Young 1987 Table 3	Number of Samples	Soil TCDD in Parts Per Trillion		
		Range	Median	Mean
Grid I	22	<10-1,500	110	325
Grid II	6	<10-470	30	115
Grid IV	26	<10-150	20	30
			Average	157

Young 1987 Table 7	Invertebrate TCDD in Parts Per Trillion	Calculated TCDD BAF Based on Average Concentration	Calculated TCDD BAF Based on Grid I Concentration
Grasshoppers	ND	--	--
Crickets (minimum)	18	0.11	0.06
Crickets (maximum)	26	0.17	0.08
Soil/Plant Insects	40	0.26	0.12
Burrow Spiders	115	0.73	0.35
Beetle Grubs	238	1.52	0.73
Average of Invertebrates		0.56	0.27

The author does not specify whether this value is in wet weight or dry weight. Assuming that the value is in wet weight is conservative because it leads to higher uptake values.

2.4.2 Calculation of TCDD Uptake Factors (Kay et al. 2005)

Kay et al. (2005) surveyed soil and wildlife concentrations of TCDD near the Tittabawassee River in Michigan. They have co-located soil concentrations and animal concentrations that allow for calculation of BAFs for the reference area and two study areas (Tittabawassee Township Park or TTP and Imerman Park or IP) (as shown in Table J4-3 and the following

table). The study areas have TCDD concentrations three orders of magnitude higher than the reference area. Because the soil concentrations are relatively similar at the TTP and IP sites, the table below also presents the average of the two sites. These are values for wet weight organisms, so no conversion is needed.

Kay 2005 Table 2	TCDD TEQ nanograms per kilogram (ng/kg) ww			Calculated BAF Based on Soil From		
	Reference Mean	TTP Location Mean	IP Location Mean	Reference Mean	TTP Location Mean	IP Location Mean
Soil	2.04	2,530	2,450	--	--	--
Depurated earthworms	0.612	83.5	76.1	0.30	0.033	0.031
Fresh earthworms	0.686	129	96.4	0.34	0.051	0.039
Terrestrial, non-earthworm invertebrates	1.13	15.8	28.7	0.55	0.0062	0.0120
Terrestrial, non-earthworm invertebrates average of TTP and IP Locations	1.13	22.25		0.55	0.009	

2.5 BAFs Also Vary With TEQ Concentration

The BAFs in both studies are strongly dependent on the concentration of TCDD in the soil. The areas with higher concentrations of TCDD have lower BAFs and the areas with lower concentrations of TCDD have higher BAFs. In the reference area, the earthworms have lower BAFs than the non-earthworm invertebrates. In the study areas, the earthworms have higher BAFs than the non-earthworm invertebrates. This indicates that uptake factors in the OU-1 Refined SLERA Area are likely dependent on TCDD TEQ concentrations, as well as TOC, and other soil characteristics. Table J4-4 shows a summary of these values.

The Site TEQs are directly comparable to the Young et al. (1987) and Kay et al. (2005) studies (as shown in Tables J4-3 and J4-4, and the following table). Those studies measured TCDD uptake. The toxicity equivalency factor for TCDD for both birds and mammals is 1, so 1 nanogram per kilogram (ng/kg) of TCDD equals 1 ng/kg of TEQ.

Study	Average TEQ ng/kg	High End TEQ ^a ng/kg
Young 1987	157	325
Kay 2005	2.04	2,530
OU-1 Refined SLERA Area: Avians	920	1,443
OU-1 Refined SLERA Area: Mammals	478	870

- a. High end concentrations for literature-based studies represent the maximum of calculated mean concentrations, and 95% UCLs for the OU-1 refined SLERA.

Of the samples for avian TEQs at the Operations Area, 165 or 68% are less than 325 ng/kg. For the mammalian TEQ samples at the Operations Area, 183 or 76% are less than 325 ng/kg. The Operations Area is most likely to have uptake values more similar to the lower end TCDD sites in the studies than the higher end TCDD sites in the studies.

2.6 Summary of Uptake Factors

In the OU-1 Refined SLERA Area, this leaves us with a variety of possible options for invertebrate uptake values for TCDD. This uncertainty analysis explores five of those values covering three orders of magnitude (as shown in Table J4-5 and the following table).

Uptake to Terrestrial Invertebrates	BAF (ww)
Lowest Literature BAF	0.00898
Uptake factor used for OU-1 refined SLERA (see main text)	0.19
Calculated using Eco-SSL formula at average TOC	0.90
Average Literature BAF	0.39
USEPA Region 6	1.59

However, during the site reconnaissance, a trained ecologist noted that the actual distribution of invertebrates at the site was roughly 45% crickets, 45% other insects, and 10% burrowing spiders, or other organisms like scorpions with a similar lifestyle, trophic level, and exposure patterns. A weighted average of the high-and-low end studies for these organisms results in a BAF of 0.19, as shown in the following table.

Calculation of a Weighted Average BAF for the OU-1 Refined SLERA Area			
	BAF	%	Contribution
Crickets (average of 4 values)	0.104	45%	0.047
Soil/Plant Insects (average of 2 values)	0.189	45%	0.085
Burrowing Spiders (average of 2 values)	0.544	10%	0.054
Weighted Average BAF			0.19

The TEQ concentrations for OU-1 soil vary for Eco DU-1, Eco DU-2, Eco DU-3, and Parcel E, with the lowest TEQ in Eco DU-2 and Parcel E and the highest TEQ in Eco DU-1, as summarized below:

Uncertainties Associated with Dioxin and Furan Bioaccumulation Factors for Soil Invertebrates
 Nevada Environmental Response Trust Site
 Henderson, Nevada

TEQ (ng/kg, ppt)	95% UCL TEQ by Area			
	Eco DU-1	Eco DU-2	Eco DU-3	Parcel E
Dioxin/Furan Bird TEQ	1,870	63	1034	120
Dioxin/Furan Mammal TEQ	1,110	28	527.6	75.7

ng/kg = nanograms per kilogram, ppt = parts per trillion

These concentrations are in the range of the Young et al. (1987) and the Kay et al. (2005) studies. Based on the available information, including the range of BAFs calculated using the USEPA Eco-SSL (2007b) formulae and OU-1 organic carbon data, the BAF used for OU-1 is the weighted average BAF of 0.19. The uncertainty associated with the BAF is discussed in the uncertainty assessment.

3. THE EFFECT OF BAFS ON THE FOOD WEB MODEL

A limited food web model (FWM) was constructed to demonstrate the effects of the range of terrestrial invertebrate uptake factors for TCDD on risk estimates. This FWM was constructed in the same way as the FWM described in Section 4.5 in the main text of the OU-1 refined SLERA. The exposure point concentrations (EPCs) used were the maximum and 95% UCL for mammalian and avian TEQs for the Operations Area (Table J4-6). The wildlife receptors (Table J4-7) are identical to the ones used Table 4-7a in the main text of the OU-1 refined SLERA, but only those receptors that consume terrestrial invertebrates are used. The toxicity reference values (TRVs) (Table J4-8) are the same no observed adverse effects level (NOAEL) and lowest observed adverse effects level (LOAEL) that were used in the FWM (as described in Section 4.5.3 and Table 4-7b of the main text of the OU-1 refined SLERA). The receptor-specific risk calculations are shown on Tables J4-9a through J4-9f and summarized in Table J4-10. A FWM with an area use factor (AUF) of one is shown for these receptors and the fringed myotis and the raccoon are also shown with a species- and site-specific AUF of less than one.

The excerpt from Table J-10 below illustrates the range of HQs over the range of BAFs considered in the uncertainty analysis. The BAF value used for the OU-1 refined SLERA, including the Operations Area, the three ecological decision units within the Operations Area, and Parcel E, was 0.195.

Table J-10 Excerpt: Example Hazard Quotients Calculated Using the 95% UCL for Operations Area and a Range of BAFs			Western Burrowing Owl AUF = 1		American Robin AUF = 1	
Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
95% UCL	0.00898	Lowest Literature BAF	0.6	0.06	1	0.1
	0.190	OU-1 refined SLERA Uptake Factor	5	0.5	10	1
	0.895	Earthworm Eco-SSL Average TOC	20	2	60	6
	0.391	Earthworm Average Literature BAF	9	0.9	20	2
	1.59	Earthworm USEPA Region 6	40	4	100	10

4. UNCERTAINTIES

While these BAFs are presented from peer-reviewed primary literature, they still represent substantial uncertainties for use at this Site. BAFs are strongly influenced by the soil TOC and concentration of TCDD in the soil. Nonetheless, the BAFs used in the risk assessment are appropriate for use in the food web model for understanding where potential risks exist and for what receptors within the OU-1 Refined SLERA Area may be at risk. In regard to the BAFs used in the OU-1 refined SLERA food web model, the assessment must consider a variety of uncertainties, as summarized in the following table:

Uncertainty	Effect on HQs
Soil type between the experimental sites may have vastly different TOC than the relatively sandy soils in the OU-1 Refined SLERA Area. TCDD is strongly hydrophobic and partitions readily into organic carbon.	Unknown
The type of carbon, as well as the amount of carbon, can affect the sorption of dioxins and furans. (Cornelissen et al. 2008 and Lambert et al. 2011).	Unknown
The relatively high lipid content of earthworms may (or may not) be at odds with the insects that are actually present in the OU-1 Refined SLERA Area. The lipid content of insects strongly affects uptake of large hydrophobic constituents.	Unknown.
The BAFs vary with concentration of TOC in the soil. The soil in the Operations Area has TOC values from 300 to 15,800 mg/kg. Each of these locations will have slightly different uptake of TEQs. Using one central tendency value for TEQ uptake does not take into account the complexity of the soil data.	Overestimates HQs in some locations and underestimates HQs in others
BAFs vary with concentration of dioxins and furans. The higher the concentration of dioxins and furans, the lower the BAF. There is a wide spectrum of TEQ concentrations that vary over six orders of magnitude. Each of these locations will have slightly different uptake of TEQs. Using one central tendency value for TEQ uptake does not take into account the complexity of the soil data.	Overestimates HQs in some locations and underestimates HQs in others
The measured physical constants for TCDD (K_{ow} and K_{oc}) are from a reliable USEPA source, but these are only one estimate. Different sources have found other values for these constants that vary significantly.	Unknown
The FWM only considers the effects of dioxin and furan TEQs. However, there are some locations with PCBs as well. These two classes of constituents have an additive toxicological effect.	Underestimates HQs

5. REFERENCES

- Cornelissen, G., I.T. Cousins, K. Wiberg, M. Tysklind, H. Holmström, and D. Broman. 2008. Black carbon-dominated PCDD/Fs sorption to soils at a former wood impregnation site. *Chemosphere*. 72(10):1455–1461.
- Kay, D., A. Blankenship, M. Zwiernik, J. L. Newsted, P. D. Jones, and J. P. Giesy. 2005. PCDDs and PCDFs in Aquatic and Terrestrial Food Webs of the Tittabawassee River, Michigan, USA. *Organohalogen Compounds*. 67:2130-2133.
- Lambert, M. K., C. Friedman, P. Luey, and R. Lohmann. 2011. Role of Black Carbon in the Sorption of Polychlorinated Dibenzo-p-dioxins and Dibenzofurans at the Diamond Alkali Superfund Site, Newark Bay, New Jersey. *Environmental Science and Technology*. 45(10):4331–4338.
- Martin, S., J. Duncan, D. Thiel, R. Peterson and M. Lemke. 1989. Evaluation of the effects of dioxin-contaminated sludges on eastern bluebirds and tree swallows. *Nekoosa Papers*, Port Edwards, WI, USA. (As cited in Meyn 1997)
- Meyn, O., M. Zeeman, M.J. Wise, and S.E. Keane. 1997. Terrestrial wildlife risk assessment for TCDD in land-applied pulp and paper mill sludge. *Environmental Toxicology and Chemistry*. 16(9):1789–1801.
- Reynolds, J.W. 2015. A checklist by counties of earthworms (Oligochaeta: Lumbricidae) in Nevada, USA. *Megadrilologica* 17(7): 105-112. *Megadrilologica*. 17:105-112.
- USEPA. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Region 6. U.S. Environmental Protection Agency, Office of Solid Waste and Emergency Response. EPA530-D-99-001A. August.
- USEPA. 2000. Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Part I: Estimating Exposure to Dioxin-Like Compounds. Volume 4: Site-Specific Assessment Procedures. Draft. Exposure Assessment and Risk Characterization Group, Office of Research and Development, Washington, DC. September.
- USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-5 Eco-SSL Standard Operating Procedure #6: Derivation of Wildlife Toxicity Reference Value. OSWER Directive 9285.7-55. Revised June 2007.
- Young, A. L., L.G. Cockerham, and C.E. Thalken. 1987. A long-term study of ecosystem contamination with 2,3,7,8-tetrachlorodibenzo-p-dioxin. *Chemosphere*. 16(8-9):1791–1815.

Uncertainties Associated with Dioxin and Furan Bioaccumulation Factors for Soil Invertebrates
Nevada Environmental Response Trust Site
Henderson, Nevada

TABLES

**TABLE J4-1. Operations Area Soil TOC Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Value in mg/kg	Interpreted Qualifiers	% TOC	foc	Depth (feet)	Sample Date	Method	Parent Sample (if duplicate)	Method Detection Limit in mg/kg
SA-28	SA28-0.5B	300	UJ	0.03	0.0003	0.5 - 2	3-Aug-2009	Lloyd Kahn	Not a duplicate	300
SA-52	SA52-28B	330		0.033	0.00033	0 - 0	21-Oct-2009	Lloyd Kahn	Not a duplicate	40
RSAO7	RSAO7-19B	350		0.035	0.00035	0 - 0	12-Oct-2009	Lloyd Kahn	Not a duplicate	40
RSAP7	RSAP7-0.5B	440		0.044	0.00044	0.5 - 2	27-Oct-2009	Lloyd Kahn	Not a duplicate	40
SA-31	SA31-0.5B	460		0.046	0.00046	0.5 - 2	9-Sep-2009	Lloyd Kahn	Not a duplicate	40
RSAO8	RSAO8-21.5B	460		0.046	0.00046	0 - 0	14-Sep-2009	Lloyd Kahn	Not a duplicate	40
SA-171	SA171-5B	490		0.049	0.00049	0 - 1.5	19-Oct-2009	Lloyd Kahn	Not a duplicate	40
RSAQ6	RSAQ6-0.5B	500		0.05	0.0005	0 - 0	11-Sep-2009	Lloyd Kahn	Not a duplicate	40
SA-62	SA62-0.5B	500	J-	0.05	0.0005	0.5 - 2	16-Jun-2009	Lloyd Kahn	Not a duplicate	40
RSAQ7	RSAQ7-0.5B	520		0.052	0.00052	0.5 - 2	27-Oct-2009	Lloyd Kahn	Not a duplicate	40
SA-138	SA138-0.5B	560		0.056	0.00056	0.5 - 2.5	6-Oct-2009	Lloyd Kahn	Not a duplicate	40
RSAS3	RSAS3-0.5B	570		0.057	0.00057	0.5 - 2	26-Aug-2009	Lloyd Kahn	Not a duplicate	40
SA-128	SA128-10B	590		0.059	0.00059	0 - 1.5	16-Sep-2009	Lloyd Kahn	Not a duplicate	40
SA-151	SA151-0.5B	590		0.059	0.00059	0.5 - 2	17-Sep-2009	Lloyd Kahn	Not a duplicate	40
RSAT6	RSAT6-0.5B	600		0.06	0.0006	0.5 - 2	28-Aug-2009	Lloyd Kahn	Not a duplicate	40
SA-75	SA75-0.5B	630		0.063	0.00063	0 - 1.5	17-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAL7	RSAL7-0.5B	650	J-	0.065	0.00065	0.5 - 1.5	5-Jun-2009	Lloyd Kahn	Not a duplicate	40
RSAS3	RSAS3009-0.5B	650		0.065	0.00065	0.5 - 2	26-Aug-2009	Lloyd Kahn	RSAS3-0.5B	40
SA-74	SA74009-0.5B	670	J	0.067	0.00067	0 - 1.5	15-Jul-2009	Lloyd Kahn	SA74-0.5B	40
SA-146	SA146-0.5B	680		0.068	0.00068	0.5 - 2	4-Aug-2009	Lloyd Kahn	Not a duplicate	40
SA-121	SA121-0.5B	700		0.07	0.0007	0.5 - 2	25-Sep-2009	Lloyd Kahn	Not a duplicate	40
RSAM6	RSAM6-0.5B	720		0.072	0.00072	0.5 - 2	18-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-157	SA157-0.5B	720		0.072	0.00072	0.5 - 2	20-Oct-2009	Lloyd Kahn	Not a duplicate	40
SA-147	SA147-0.5B	720		0.072	0.00072	0.5 - 2	4-Aug-2009	Lloyd Kahn	Not a duplicate	40
SA-121	SA121009-0.5B	730		0.073	0.00073	0.5 - 2	25-Sep-2009	Lloyd Kahn	SA121-0.5B	40
SA-212	SA212-0.5B	740		0.074	0.00074	0.5 - 2	28-Sep-2009	Lloyd Kahn	Not a duplicate	40
SA-73	SA73-0.5B	750		0.075	0.00075	0 - 1.5	29-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-35	SA35-0.5B	770	J-	0.077	0.00077	0 - 0	10-Jun-2009	Lloyd Kahn	Not a duplicate	50
RSAN4	RSAN4-0.5B	790		0.079	0.00079	0 - 1.5	8-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAU5	RSAU5-0.5B	810		0.081	0.00081	0.5 - 2	5-Aug-2009	Lloyd Kahn	Not a duplicate	40
RSAU4	RSAU4-0.5B	810		0.081	0.00081	0.5 - 2	29-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAl7	RSAl7-0.5B	816		0.0816	0.000816	0 - 0.5	11-Jul-2008	Lloyd Kahn	Not a duplicate	39.8
RSAM8	RSAM8-0.5B	850	J-	0.085	0.00085	0 - 1	12-Jun-2009	Lloyd Kahn	Not a duplicate	50
RSAL6	RSAL6-0.5B	850		0.085	0.00085	0 - 1.5	29-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAL4	RSAL4009-0.5B	860		0.086	0.00086	0.5 - 2	7-Jul-2009	Lloyd Kahn	RSAL4-0.5B	40
SA-197	SA197-0.5B	870		0.087	0.00087	0 - 1.5	19-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-157	SA157009-0.5B	870		0.087	0.00087	0.5 - 2	20-Oct-2009	Lloyd Kahn	SA157-0.5B	40
SA-166	SA166-0.5B	880	J-	0.088	0.00088	0.5 - 1.5	11-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-67	SA67-0.5B	919		0.0919	0.000919	0.5 - 2	7-Jul-2008	Lloyd Kahn	Not a duplicate	39.8
SA-69	SA69-0.5B	960		0.096	0.00096	0.5 - 2	7-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAK4	RSAK4009-0.5B	960	J	0.096	0.00096	0.5 - 2	11-Jun-2009	Lloyd Kahn	RSAK4-0.5B	40
RSAL4	RSAL4-0.5B	980		0.098	0.00098	0.5 - 2	7-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-85	SA85-0.5B	990	J-	0.099	0.00099	0.5 - 2	16-Jun-2009	Lloyd Kahn	Not a duplicate	50
RSAN5	RSAN5-0.5B	1000		0.1	0.001	0.5 - 2	23-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-173	SA173009-0.5B	1010		0.101	0.00101	0.5 - 2	27-Jul-2009	Lloyd Kahn	SA173-0.5B	40
SA-173	SA173-0.5B	1030		0.103	0.00103	0.5 - 2	27-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-65	SA65-10B	1,030	J-	0.103	0.00103	0 - 0	25-Aug-2009	Lloyd Kahn	Not a duplicate	35
SA-116	SA116-0.5B	1040		0.104	0.00104	0.5 - 2	2-Sep-2009	Lloyd Kahn	Not a duplicate	40
SA-64	SA64-0.5B	1040		0.104	0.00104	0 - 1.5	19-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-74	SA74-0.5B	1,040	J	0.104	0.00104	0 - 1.5	15-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-72	SA72-0.5B	1050		0.105	0.00105	0.5 - 2	27-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAM7	RSAM7-0.5B	1080		0.108	0.00108	0 - 1.5	18-Jun-2009	Lloyd Kahn	Not a duplicate	40
SA-158	SA158-0.5B	1190		0.119	0.00119	0 - 1.5	17-Jun-2009	Lloyd Kahn	Not a duplicate	70
RSAO2	RSAO2-0.5B	1270		0.127	0.00127	0.5 - 2	9-Jul-2008	Lloyd Kahn	Not a duplicate	39.8
RSAM4	RSAM4-0.5B	1300		0.13	0.0013	0.5 - 2	8-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAL5	RSAL5-0.5B	1380		0.138	0.00138	0.5 - 2	15-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-179	SA179-0.5B	1380		0.138	0.00138	0.5 - 2	28-Jul-2009	Lloyd Kahn	Not a duplicate	40
SA-189	SA189-0.5B	1420		0.142	0.00142	0.5 - 2	4-Jun-2009	Lloyd Kahn	Not a duplicate	80
RSAM2	RSAM2-0.5B	1440		0.144	0.00144	0.5 - 2	3-Jun-2009	Lloyd Kahn	Not a duplicate	50

**TABLE J4-1. Operations Area Soil TOC Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location	Sample ID	Value in mg/kg	Interpreted Qualifiers	% TOC	foc	Depth (feet)	Sample Date	Method	Parent Sample (if duplicate)	Method Detection Limit in mg/kg
SA-176	SA176-0.5B	1,440	J-	0.144	0.00144	0 - 1	10-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-145	SA145-0.5B	1,460	J-	0.146	0.00146	0 - 1.5	12-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-71	SA71-0.5B	1,500	J-	0.15	0.0015	0.5 - 2	16-Jun-2009	Lloyd Kahn	Not a duplicate	40
SA-92	SA92-0.5B	1530		0.153	0.00153	0 - 0	17-Jun-2009	Lloyd Kahn	Not a duplicate	40
RSAO6	RSAO6-0.5B	1,610	J-	0.161	0.00161	0 - 0.5	24-Jun-2009	Lloyd Kahn	Not a duplicate	60
RSAK4	RSAK4-0.5B	1,660	J	0.166	0.00166	0.5 - 1.5	11-Jun-2009	Lloyd Kahn	Not a duplicate	40
SA-152	SA152-0.5B	1,750	J	0.175	0.00175	0 - 1.5	4-Jun-2009	Lloyd Kahn	Not a duplicate	80
RSAK6	RSAK6-0.5B	1,840	J-	0.184	0.00184	0 - 1	5-Jun-2009	Lloyd Kahn	Not a duplicate	50
SA-87	SA87-0.5B	1,940	J	0.194	0.00194	0.5 - 2	25-Jun-2008	Lloyd Kahn	Not a duplicate	39.8
SA-12	SA12-0.5	1980		0.198	0.00198	0 - 0	10-Nov-2006	SW 846 9060	Not a duplicate	120
RSAN3	RSAN3-0.5B	2030		0.203	0.00203	0 - 1.5	8-Jul-2009	Lloyd Kahn	Not a duplicate	40
RSAL8	RSAL8-0.5B	2,040	J-	0.204	0.00204	0.5 - 1.5	5-Jun-2009	Lloyd Kahn	Not a duplicate	40
SA-20	SA20-0.5D	2,100	J	0.21	0.0021	0 - 1.5	16-Nov-2006	SW 846 9060	SA20-0.5	120
RSAO3	RSAO3-0.5B	2,390	J-	0.239	0.00239	0 - 0	10-Jun-2009	Lloyd Kahn	Not a duplicate	40
SA-21	SA21-0.5	2480		0.248	0.00248	0.5 - 2	15-Nov-2006	SW 846 9060	Not a duplicate	120
SA-50	SA50-0.5B	2,790	J-	0.279	0.00279	0 - 0	30-Jun-2009	Lloyd Kahn	Not a duplicate	120
SA-16	SA16-0.5	2900		0.29	0.0029	0 - 0	9-Nov-2006	SW 846 9060	Not a duplicate	120
SA-152	SA152009-0.5B	3,270	J	0.327	0.00327	0 - 1.5	4-Jun-2009	Lloyd Kahn	SA152-0.5B	60
SA-55	SA55-0.5B	3,280	J-	0.328	0.00328	0.5 - 1.5	10-Jun-2009	Lloyd Kahn	Not a duplicate	60
RSAO5	RSAO5-0.5B	3500		0.35	0.0035	0.5 - 2	29-Jun-2009	Lloyd Kahn	Not a duplicate	300
SA-185	SA185-0.5B	4000		0.4	0.004	0.5 - 2	29-Jun-2009	Lloyd Kahn	Not a duplicate	400
SA-186	SA186-0.5B	5300		0.53	0.0053	0.5 - 2	29-Jun-2009	Lloyd Kahn	Not a duplicate	200
SA-18	SA18-0.5	5400		0.54	0.0054	0 - 1.5	15-Nov-2006	SW 846 9060	Not a duplicate	120
SA-15	SA15-10	5800		0.58	0.0058	0 - 0.5	8-Nov-2006	SW 846 9060	Not a duplicate	120
SA-11	SA11-0.5	6500		0.65	0.0065	0 - 0	9-Nov-2006	SW 846 9060	Not a duplicate	120
SA-7	SA7-0.5	6,780	J-	0.678	0.00678	0.5 - 2	20-Nov-2006	SW 846 9060	Not a duplicate	120
SA-18	SA18-0.5D	6900		0.69	0.0069	0 - 1.5	15-Nov-2006	SW 846 9060	SA18-0.5	120
SA-2	SA2-0.5	7700		0.77	0.0077	0.5 - 2	3-Nov-2006	SW 846 9060	Not a duplicate	120
SA-180	SA180-0.5B	7900		0.79	0.0079	0 - 0.5	26-Jun-2008	Lloyd Kahn	Not a duplicate	39.8
SA-19	SA19-0.5	8,000	J-	0.8	0.008	0 - 1.5	16-Nov-2006	SW 846 9060	Not a duplicate	120
SA-15	SA15-10D	8500		0.85	0.0085	0 - 0.5	8-Nov-2006	SW 846 9060	SA15-10	120
SA-11	SA11-0.5D	8700		0.87	0.0087	0 - 0	9-Nov-2006	SW 846 9060	SA11-0.5	120
SA-180	SA180-0.5BD	9550		0.955	0.00955	0 - 0.5	26-Jun-2008	Lloyd Kahn	SA180-0.5B	39.8
SA-103	SA103-0.5B	9720		0.972	0.00972	0.5 - 2.5	6-Oct-2009	Lloyd Kahn	Not a duplicate	90
SA-20	SA20-0.5	11,700	J	1.17	0.0117	0 - 1.5	16-Nov-2006	SW 846 9060	Not a duplicate	120
RSAJ5	RSAJ5-0.5B	15,800	J-	1.58	0.0158	0.5 - 2	2-Jun-2009	Lloyd Kahn	Not a duplicate	200

Average foc (ND=0.5*DL) 0.0023

85th percentile foc (ND=0.5*DL) 0.0052

95th percentile foc (ND=0.5*DL) 0.0086

99th percentile foc (ND=0.5*DL) 0.012

Maximum foc 0.016

Notes:

% = Percent

DL = Detection limit

foc = Fraction of organic carbon

J- = Indicates an estimated value with a negative bias

J = The result is an estimated quantity

mg/kg = milligrams per kilogram

ND = Not detected

TOC = Total Organic Carbon

U = Not detected

TABLE J4-2. Calculation of Eco-SSL-based Uptake Factors for Dioxins and Furans Based on Soil TOC Nevada Environmental Response Trust Site Henderson, Nevada

Log(Kow) for TCDD = **6.8** Source = USEPA 2000
 Koc for TCDD = **3.98E+06** Source = USEPA 2000

foc Value	foc	K _{ww}	K _d	Uptake Factor in Wet Weight
Average foc (ND=0.5*DL)	0.0023	8,241	9,154	0.900
85th percentile foc (ND=0.5*DL)	0.0052	8,241	20,696	0.398
95th percentile foc (ND=0.5*DL)	0.0086	8,241	34,228	0.241
99th percentile foc (ND=0.5*DL)	0.012	8,241	47,760	0.173
Maximum foc	0.016	8,241	63,680	0.129

The Eco-SSL Guidance (USEPA 2007) suggests this formula for calculating uptake of organic constituents to soil based on soil foc and the Kow of a constituent (see text for explanation).

$$C_{\text{worm}} = C_{\text{soil}} \times \left(\frac{K_{\text{ww}}}{f_{\text{oc}} \times K_{\text{oc}}} \right)$$

Where K_{ww} =

$$\text{Log}(K_{\text{ww}}) = 0.87 \times \text{Log}(K_{\text{ow}}) - 2$$

Notes:

- C_{soil} = Concentration in soil
- C_{worm} = concentration in earthworms
- DL = Detection limit
- Eco-SSL = Ecological soil screening levels
- foc = Fraction of organic carbon
- K_d = soil to water partitioning coefficient
- K_{oc} = Organic carbon partitioning coefficient
- K_{ow} = Octanol-water partitioning coefficient
- K_{ww} = Biota to soil water partitioning coefficient
- Log = Logarithm base 10
- ND = Nondetects
- TCDD = 2,3,7,8-tetrachlorodibenzodioxin
- USEPA = United States Environmental Protection Agency

USEPA. 2000. Exposure and Human Health Reassessment of 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (TCDD) and Related Compounds. Part I: Estimating Exposure to Dioxin-Like Compounds. Volume 4: Site-Specific Assessment Procedures. Draft. Exposure Assessment and Risk Characterization Group, Office of Research and Development, Washington, DC. September.

USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-1 Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. Revised April 2007.

**TABLE J4-3. Uptake Factors for Dioxins and Furans From Literature
Nevada Environmental Response Trust Site
Henderson, Nevada**

Young 1987 Table 3	Number of Samples	Soil TCDD in Parts Per Trillion		
		Range	Median	Mean
Grid I	22	<10-1,500	110	325
Grid II	6	<10-470	30	115
Grid IV	26	<10-150	20	30
Average				157

Young 1987 Table 7	Invertebrate TCDD in Parts Per Trillion	Calculated TCDD BAF Based on Average Concentration	Calculated TCDD BAF Based on Grid I Concentration
Grasshoppers	ND	--	--
Crickets (minimum)	18	0.11	0.06
Crickets (maximum)	26	0.17	0.08
Soil/Plant Insects	40	0.26	0.12
Burrow Spiders	115	0.73	0.35
Beetle Grubs	238	1.52	0.73
Average	87.4	0.56	0.27

Kay 2005 Table 2	TCDD TEQ ng/kg			Calculated BAF Based on Soil From		
	Reference Mean	TTP Location Mean	IP Location Mean	Reference Mean	TTP Location Mean	IP Location Mean
Soil	2.04	2530	2450	--	--	--
Depurated earthworms	0.612	83.5	76.1	0.30	0.033	0.031
Fresh earthworms	0.686	129	96.4	0.34	0.051	0.039
Terrestrial, non-earthworm invertebrates	1.13	15.8	28.7	0.55	0.0062	0.0117
Terrestrial, non-earthworm invertebrates average of TTP and IP Locations	1.13	22.25		0.55	0.00898	

Study and Organism	Low End Estimate of BAF	High End Estimate of BAF
Young 1987 Crickets Minimum	0.0554	0.115
Young 1987 Crickets Maximum	0.0800	0.166
Young 1987 Soil/Plant Insects	0.123	0.255
Young 1987 Burrow Spiders	0.354	0.734
Young 1987 Beetle Grubs	0.732	1.52
Kay 2005 Non-Earthworm Invertebrates	0.00898	0.554

Average of these BAFs	0.391
------------------------------	--------------

Lowest BAF	0.00898
-------------------	----------------

Highest BAF	1.52
--------------------	-------------

Notes:

< = Less than

BAF = bioaccumulation factor, unitless

IP= Imerman Park

ng/kg = nanograms per kilogram

TCDD = 2,3,7,8-tetrachlorodibenzodioxin

TTP = Tittabawassee Township Park

Kay, D., A. Blankenship, M. Zwiernik, J. L. Newsted, P. D. Jones and J. P. Giesy. 2005. PCDDs and PCDFs in Aquatic and Terrestrial Food Webs of the Tittabawassee River, Michigan, USA. Organohalogen Compounds. 67:2130-2133.

Young, A. L., Cockerham, L. G., & Thalken, C. E. (1987). A long-term study of ecosystem contamination with 2,3,7,8-tetrachlorodibenzo-p-dioxin. Chemosphere, 16(8-9), 1791-1815.

**TABLE J4-4. Operations Area Soil TEQ Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location ID	Sample ID	Depth (feet)	Parent Sample (if duplicate)	Sample Date	D/F Avian TEQ (ND=0.5DL)	Mammal D/F TEQ (ND=0.5DL)	Detect?	Units
RSAI7	RSAI7-0.5B	0-0.5	--	7/11/2008	44,947	31,441	Yes	ng/kg
DS-DB-1	DS-DB-1	0-0	--	4/20/2011	13,665	6,031	Yes	ng/kg
RISB-14	RISB-14-0.5-20141216	0.5-1	--	12/16/2014	8,965	4,626	Yes	ng/kg
EE-D02-1	EE-D02-1	0-0	--	5/17/2011	8,565	3,289	Yes	ng/kg
RSAJ5	RSAJ5-0.5B	0.5-2	--	6/2/2009	5,918	3,417	Yes	ng/kg
SSAK8-07	SSAK8-07-0BPC	0.5-1	--	8/13/2010	5,492	2,580	Yes	ng/kg
RISB-40	RISB-40-0.5-20141121	0.5-1	--	11/21/2014	5,275	2,624	Yes	ng/kg
RISB-39	RISB-39-0.5-20141121	0.5-1	--	11/21/2014	5,117	2,658	Yes	ng/kg
SA-175	SA175-8BPC	0.5-1.5	--	5/6/2010	4,260	2,081	Yes	ng/kg
M-162D	M-162D-0.5-20141209	0.5-1	--	12/9/2014	4,215	2,177	Yes	ng/kg
RIT-2-03	RIT-2-03-20141112-FD	--	RIT-2-03-20141112	11/12/2014	4,105	2,167	Yes	ng/kg
SSAK8-06	SSAK8-06-3BPC	0-1	--	5/3/2010	3,975	1,937	Yes	ng/kg
SSAK4-01	SSAK4-01-0BPC	0-0.5	--	6/17/2010	3,516	1,704	Yes	ng/kg
RSK4	RSK4009-0.5B	0.5-2	RSK4-0.5B	6/11/2009	3,435	1,639	Yes	ng/kg
RIT-1-03	RIT-1-03-20141112	--	--	11/12/2014	3,408	1,711	Yes	ng/kg
SSAK5-01	SSAK5-01-0BPC	0-0	--	6/21/2010	3,358	1,585	Yes	ng/kg
RSAK4	RSAK4-0.5B	0.5-1.5	--	6/11/2009	3,328	1,574	Yes	ng/kg
SA-189	SA189-0.5B	0.5-2	--	6/4/2009	3,327	1,117	Yes	ng/kg
SA-167	SA167-0BPC	0.5-1	--	6/17/2010	3,306	1,626	Yes	ng/kg
SA-92	SA92-0.5B	0-0	--	6/17/2009	3,281	1,323	Yes	ng/kg
SSAM6-02	SSAM6-02-5BPC	0-0	--	5/17/2010	3,039	1,603	Yes	ng/kg
RSAH3	RSAH3-0BPC	0.5-1	--	6/17/2010	2,989	1,323	Yes	ng/kg
SA-75	SA75-0.5B	0-1.5	--	7/17/2009	2,857	1,173	Yes	ng/kg
EE-DB-2	EE-DB-2	0-0	--	6/7/2011	2,824	1,474	Yes	ng/kg
BDT-3-S-10	BDT-3-S-10-2BPC	0.5-1.5	--	8/24/2010	2,820	1,353	Yes	ng/kg
RIT-2-03	RIT-2-03-20141112	--	--	11/12/2014	2,685	1,352	Yes	ng/kg
SA-134	SA134-1BR	0-0	--	12/9/2009	2,521	1,249	Yes	ng/kg
SSAP3-01	SSAP3-01-0BPC	0-0	--	8/13/2010	2,430	1,190	Yes	ng/kg
RSAL8	RSAL8-0.5B	0.5-1.5	--	6/5/2009	2,315	992	Yes	ng/kg
DS-D27-1	DS-D27-1	0.5-0.5	--	4/14/2011	2,279	1,078	Yes	ng/kg
EE-DB-1	EE-DB-1	0.5-0.5	--	6/7/2011	2,279	1,148	Yes	ng/kg
CS-DC-1	CS-DC-1	0-0	--	5/3/2011	2,246	822	Yes	ng/kg
SSAN6-08	SSAN6-08-2.0_01_BPC	0-0	--	11/12/2010	1,895	831	Yes	ng/kg
DS-DB-1	DS-DB-2	0-0	DS-DB-1	4/20/2011	1,781	938	Yes	ng/kg
SA-16	SA16-0.5	0-0	--	11/9/2006	1,683	894	Yes	ng/kg
SSAK8-02	SSAK8-02-1BPC	0.5-1.5	--	4/16/2010	1,632	849	Yes	ng/kg
SSAK5-01	SSAK5-01-1BPC	0.5-1.5	--	4/14/2010	1,582	789	Yes	ng/kg
M-161D	M-161D-0.5-20141203	0.5-1	--	12/3/2014	1,512	597	Yes	ng/kg
EE-D25A-1	EE-D25A-1	0-0	--	5/18/2011	1,489	754	Yes	ng/kg
RISB-12	RISB-12-0.5-20141215	0.5-1	--	12/15/2014	1,479	688	Yes	ng/kg
RSAO3	RSAO3-0.5B	0-0	--	6/10/2009	1,440	629	Yes	ng/kg
RIT-2-02	RIT-2-02-20141112	--	--	11/12/2014	1,257	631	Yes	ng/kg
SSAK4-02	SSAK4-02-1BPC	0.5-1.5	--	5/14/2010	1,095	545	Yes	ng/kg
EE-D10-1	EE-D10-1	0-0	--	6/7/2011	1,084	576	Yes	ng/kg
SSAL3-07	SSAL3-07-0BPC	0-0	--	8/13/2010	1,080	463	Yes	ng/kg
BDT-3-S-5	BDT-3-S-5-2BPC	0-0	--	8/24/2010	974	468	Yes	ng/kg
BDT-3-S-5	BDT-3-S-5-4BPC	0.5-1.5	--	8/24/2010	940	444	Yes	ng/kg
RISB-47	RISB-47-0.5-20141120	0.5-1	--	11/20/2014	910	474	Yes	ng/kg
SA-87	SA87-0.5B	0.5-2	--	6/25/2008	908	357	Yes	ng/kg
RIT-1-04	RIT-1-04-20141112	--	--	11/12/2014	865	410	Yes	ng/kg
SA-134	SA134-1.5BR	0-0.5	--	12/9/2009	857	431	Yes	ng/kg
SSAK6-03	SSAK6-03-3BPC	0-1	--	4/30/2010	851	409	Yes	ng/kg
SSAK8-09	SSAK8-09-0BPC	0-0	--	8/13/2010	806	369	Yes	ng/kg
SA-173	SA173-0.5B	0.5-2	--	7/27/2009	783	189	Yes	ng/kg
SA-173	SA173009-0.5B	0.5-2	SA173-0.5B	7/27/2009	766	185	Yes	ng/kg
RSAN7	RSAN7-0BPC	0.5-1	--	8/13/2010	764	336	Yes	ng/kg
RSAL6	RSAL6-0.5B	0-1.5	--	7/29/2009	727	377	Yes	ng/kg
SA-64	SA64-0.5B	0-1.5	--	6/19/2009	716	361	Yes	ng/kg
SSAP3-01	SSAP3-01-1BPC	0-0.5	--	4/14/2010	662	343	Yes	ng/kg
RSAL5	RSAL5-0.5B	0.5-2	--	7/15/2009	647	328	Yes	ng/kg
RISB-10	RISB-10-0.5-20141215	0.5-1	--	12/15/2014	621	333	Yes	ng/kg
SA-71	SA71-0.5B	0.5-2	--	6/16/2009	593	319	Yes	ng/kg
SSAK4-02	SSAK4-02-0BPC	0-0.5	--	8/31/2010	580	294	Yes	ng/kg
SA-19	SA19-0.5	0-1.5	--	11/16/2006	537	268	Yes	ng/kg
CS-C10B-1	CS-C10B-1	0-0	--	7/28/2011	521	252	Yes	ng/kg
BDT-2-S-10	BDT-2-S-10-6BPC	0-1	--	8/26/2010	476	230	Yes	ng/kg
SSAI3-01	SSAI3-01-3BPC	0-0.5	--	4/16/2010	433	203	Yes	ng/kg
DSPE-1	DSPE-1-0.5-20180919	0.5-1	--	9/19/2018	423	211	Yes	ng/kg
RIDB-6	RIDB-6-0.5-20170225	0.5-1	--	2/25/2017	401	205	Yes	ng/kg
SA-158	SA158-0.5B	0-1.5	--	6/17/2009	375	195	Yes	ng/kg
RSAL4	RSAL4-0.5B	0.5-2	--	7/7/2009	368	191	Yes	ng/kg
SA-7	SA7-0.5	0.5-2	--	11/20/2006	367	169	Yes	ng/kg
SSAM7-04	SSAM7-04-1BPC	0-0	--	4/12/2010	357	170	Yes	ng/kg

**TABLE J4-4. Operations Area Soil TEQ Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location ID	Sample ID	Depth (feet)	Parent Sample (if duplicate)	Sample Date	D/F Avian TEQ (ND=0.5DL)	Mammal D/F TEQ (ND=0.5DL)	Detect?	Units
SSAO4-01	SSAO4-01-0BPC	0-0	--	8/13/2010	350	125	Yes	ng/kg
SSAN7-02	SSAN7-02-1BPC_FD	0.5-1.5	SSAN7-02-1BPC	4/12/2010	340	117	Yes	ng/kg
DSPE-1	DSPE-1-0.5-20180919-FD	0.5-1	DSPE-1-0.5-20180919	9/19/2018	335	170	Yes	ng/kg
SSAO4-05	SSAO4-05-1BPC_FD	0-0	SSAO4-05-1BPC	4/29/2010	334	140	Yes	ng/kg
SSAN6-08	SSAN6-08-3.0_01_BPC	0-0.5	--	11/12/2010	323	148	Yes	ng/kg
CS-D02-1	CS-D02-1	0-0	--	5/17/2011	318	155	Yes	ng/kg
RSAL4	RSAL4009-0.5B	0.5-2	RSAL4-0.5B	7/7/2009	315	163	Yes	ng/kg
BDT-2-S-15	BDT-2-S-15-8BPC	0-1	--	8/26/2010	311	141	Yes	ng/kg
SA-207	SA207-12BPC	0-0	--	4/13/2010	308	149	Yes	ng/kg
SSAO4-01	SSAO4-01-1BPC	0-0.5	--	4/14/2010	300	126	Yes	ng/kg
SSAN7-02	SSAN7-02-1BPC	0.5-1.5	--	4/12/2010	297	118	Yes	ng/kg
RSAM6	RSAM6-0.5B	0.5-2	--	6/18/2009	296	158	Yes	ng/kg
BDT-2-S-15	BDT-2-S-15-6BPC	0-0	--	8/26/2010	293	131	Yes	ng/kg
SSAO4-05	SSAO4-05-1BPC	0-0	--	4/29/2010	286	130	Yes	ng/kg
RISB-48	RISB-48-0.5-20141120	0.5-1	--	11/20/2014	280	139	Yes	ng/kg
RISB-09	RISB-09-0.5-20141211	0.5-1	--	12/11/2014	275	141	Yes	ng/kg
SA-200	SA200-0BPC	0.5-1	--	6/17/2010	262	115	Yes	ng/kg
RISB-41	RISB-41-0.5-20141121	0.5-1	--	11/21/2014	255	136	Yes	ng/kg
BDT-2-S-20	BDT-2-S-20-8BPC	0-1	--	8/26/2010	255	109	Yes	ng/kg
SA-85	SA85-0.5B	0.5-2	--	6/16/2009	246	124	Yes	ng/kg
SSAJ3-05	SSAJ3-05-8BPC	0-1	--	8/10/2010	245	116	Yes	ng/kg
RISB-41	RISB-41-0.5-20141121-FD	0.5-1	RISB-41-0.5-20141121	11/21/2014	233	127	Yes	ng/kg
SSAO7-01	SSAO7-01-1BPC	0-1	--	4/8/2010	213	48.6	Yes	ng/kg
BDT-2-S-5	BDT-2-S-5-8BPC	0-1	--	8/26/2010	198	85.0	Yes	ng/kg
RIT-2-01	RIT-2-01-20141112	--	--	11/12/2014	188	84.7	Yes	ng/kg
BDT-2-N-15	BDT-2-N-15-6.0BPC	0.5-1.5	--	8/25/2010	186	95.3	Yes	ng/kg
SSAN6-03	SSAN6-03-0BPC	0-0	--	8/13/2010	183	85.0	Yes	ng/kg
SA-197	SA197-0.5B	0-1.5	--	6/19/2009	177	99.1	Yes	ng/kg
SA-67	SA67-0.5B	0.5-2	--	7/7/2008	176	70.9	Yes	ng/kg
RIT-1-05	RIT-1-05-20141112	--	--	11/12/2014	168	62.4	Yes	ng/kg
SSAO7-01	SSAO7-01-1BPC_FD	0-1	SSAO7-01-1BPC	4/8/2010	160	48.1	Yes	ng/kg
RIT-3-05	RIT-3-05-20141113	--	--	11/13/2014	160	82.1	Yes	ng/kg
DSPE-2	DSPE-2-0.5-20180919	0.5-1	--	9/19/2018	154	77.8	Yes	ng/kg
SA-179	SA179-0.5B	0.5-2	--	7/28/2009	152	80.6	Yes	ng/kg
RISB-13	RISB-13-0.5-20141217	0.5-1	--	12/17/2014	150	73.6	Yes	ng/kg
SA-103	SA103-0.5B	0.5-2.5	--	10/6/2009	142	46.0	Yes	ng/kg
RIDB-1	RIDB-1-0.5-20170308	0.5-1	--	3/8/2017	133	68.5	Yes	ng/kg
RIT-1-02	RIT-1-02-20141111	--	--	11/11/2014	129	60.0	Yes	ng/kg
RIT-1-01	RIT-1-01-20141111	--	--	11/11/2014	121	61.9	Yes	ng/kg
SSAN5-04	SSAN5-04-0BPC	0-0	--	8/13/2010	114	49.9	Yes	ng/kg
BDT-3-N-10	BDT-3-N-10-4BPC_FD	0-0	BDT-3-N-10-4BPC	8/23/2010	114	54.1	Yes	ng/kg
RISB-11	RISB-11-0.5-20141217	0.5-1	--	12/17/2014	113	68.3	Yes	ng/kg
BDT-2-S-20	BDT-2-S-20-6BPC_FD	0-0	BDT-2-S-20-6BPC	8/26/2010	110	49.3	Yes	ng/kg
BDT-2-N-15	BDT-2-N-15-4.0BPC	0-0	--	8/25/2010	107	53.4	Yes	ng/kg
SA-145	SA145-0.5B	0-1.5	--	6/12/2009	106	54.9	Yes	ng/kg
RSAM4	RSAM4-0.5B	0.5-2	--	7/8/2009	98.0	52.2	Yes	ng/kg
BDT-2-S-20	BDT-2-S-20-6BPC	0-0	--	8/26/2010	97.3	44.7	Yes	ng/kg
SSAK5-03	SSAK5-03-1BPC	0.5-1.5	--	5/14/2010	96.9	37.9	Yes	ng/kg
SSAK7-03	SSAK7-03-1BPC	0.5-1.5	--	4/21/2010	93.3	44.3	Yes	ng/kg
BDT-3-N-5	BDT-3-N-5-2BPC	0.5-1.5	--	8/23/2010	92.9	46.7	Yes	ng/kg
BDT-3-N-10	BDT-3-N-10-4BPC	0-0	--	8/23/2010	92.5	44.3	Yes	ng/kg
SSAN6-03	SSAN6-03-1BPC	0.5-1.5	--	4/15/2010	89.9	45.8	Yes	ng/kg
SSAJ3-07	SSAJ3-07-5BPC	0-0	--	8/10/2010	85.8	38.5	Yes	ng/kg
BDT-2-N-20	BDT-2-N-20-4.0BPC	0-1	--	8/25/2010	81.7	40.8	Yes	ng/kg
SSAN6-08	SSAN6-08-4.0_01_BPC	0.5-1.5	--	11/12/2010	81.2	36.9	Yes	ng/kg
SSAK8-05	SSAK8-05-1BPC	0.5-1.5	--	4/27/2010	76.1	35.9	Yes	ng/kg
RSAM7	RSAM7-0.5B	0-1.5	--	6/18/2009	73.0	37.0	Yes	ng/kg
RIT-2-04	RIT-2-04-20141113	--	--	11/13/2014	73.0	21.9	Yes	ng/kg
SA-152	SA152-0.5B	0-1.5	--	6/4/2009	72.4	39.8	Yes	ng/kg
SA-186	SA186-0.5B	0.5-2	--	6/29/2009	57.3	30.7	Yes	ng/kg
SA-62	SA62-0.5B	0.5-2	--	6/16/2009	56.1	28.7	Yes	ng/kg
CS-C10A-1	CS-C10A-1	0-0	--	5/17/2011	54.4	26.6	Yes	ng/kg
SA-49	SA49-1.5BR	0.5-0.5	--	12/15/2009	53.0	23.5	Yes	ng/kg
RIDB-2	RIDB-2-0.5-20170309	0.5-1	--	3/9/2017	52.0	26.5	Yes	ng/kg
RIT-3-03	RIT-3-03-20141113-FD	--	RIT-3-03-20141113	11/13/2014	50.9	26.5	Yes	ng/kg
SSAI3-07	SSAI3-07-10BPC	0-0	--	8/31/2010	50.0	24.7	Yes	ng/kg
BDT-2-N-10	BDT-2-N-10-6BPC_FD	0-0.5	BDT-2-N-10-6BPC	8/25/2010	49.4	23.1	Yes	ng/kg
RIDB-3	RIDB-3-0.5-20170310	0.5-1	--	3/10/2017	48.1	24.3	Yes	ng/kg
SA-157	SA157-0.5B	0.5-2	--	10/20/2009	44.5	16.0	Yes	ng/kg
RIDB-4	RIDB-4-0.5-20170306	0.5-1	--	3/6/2017	42.9	20.9	Yes	ng/kg
RIT-3-03	RIT-3-03-20141113	--	--	11/13/2014	42.5	22.9	Yes	ng/kg
SSAJ3-10	SSAJ3-10-0.0_01_BPC	0-0	--	2/11/2011	40.0	19.7	Yes	ng/kg
RSAO5	RSAO5-0.5B	0.5-2	--	6/29/2009	38.7	17.1	Yes	ng/kg

**TABLE J4-4. Operations Area Soil TEQ Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location ID	Sample ID	Depth (feet)	Parent Sample (if duplicate)	Sample Date	D/F Avian TEQ (ND=0.5DL)	Mammal D/F TEQ (ND=0.5DL)	Detect?	Units
SA-70	SA70-0BPC	0.5-1	--	6/17/2010	37.0	14.6	Yes	ng/kg
SA-157	SA157009-0.5B	0.5-2	SA157-0.5B	10/20/2009	36.9	12.0	Yes	ng/kg
BDT-2-N-10	BDT-2-N-10-6BPC	0-0.5	--	8/25/2010	36.7	16.4	Yes	ng/kg
SA-72	SA72-0.5B	0.5-2	--	7/27/2009	36.4	26.7	Yes	ng/kg
BDT-2-N-5	BDT-2-N-5-8BPC	0-1	--	8/25/2010	29.4	13.6	Yes	ng/kg
SA-166	SA166-0.5B	0.5-1.5	--	6/11/2009	28.8	6.3	Yes	ng/kg
SSAO7-06	SSAO7-06-0BPC	0-1	--	9/27/2010	27.8	13.7	Yes	ng/kg
SA-121	SA121-0.5B	0.5-2	--	9/25/2009	27.7	10.6	Yes	ng/kg
RSAl7	RSAl7-1BR	0.5-1	--	12/10/2009	25.4	10.9	Yes	ng/kg
CS-D23-2	CS-D23-2	0-0	--	6/30/2011	24.7	11.2	Yes	ng/kg
SA-74	SA74-0.5B	0-1.5	--	7/15/2009	24.5	12.3	Yes	ng/kg
SSAQ5-07	SSAQ5-07-2BPC	0.5-1.5	--	8/31/2010	21.2	9.7	Yes	ng/kg
RSAN5	RSAN5-0.5B	0.5-2	--	6/23/2009	19.9	11.1	Yes	ng/kg
RIDB-7	RIDB-7-0.5-20170312	0.5-1	--	3/12/2017	19.7	10.1	Yes	ng/kg
RIDB-7	RIDB-7-0.5-20170312-FD	0.5-1	RIDB-7-0.5-20170312	3/12/2017	19.5	9.98	Yes	ng/kg
SA-121	SA121009-0.5B	0.5-2	SA121-0.5B	9/25/2009	18.5	7.35	Yes	ng/kg
SSAO4-02	SSAO4-02-3BPC	0-0	--	4/8/2010	18.4	9.25	Yes	ng/kg
RSAl5	RSAl5-0.5B	0.5-2	--	7/24/2009	17.9	9.64	Yes	ng/kg
SA-114	SA114-1BR	0-0	--	12/16/2009	17.8	8.21	Yes	ng/kg
SSAQ5-07	SSAQ5-07-1BPC	0-0.5	--	8/31/2010	17.1	7.83	Yes	ng/kg
RSAl8	RSAl8-11.5B	0-1	--	9/14/2009	16.5	7.70	Yes	ng/kg
RIT-3-04	RIT-3-04-20141113	--	--	11/13/2014	15.8	8.02	Yes	ng/kg
SA-50	SA50-0.5B	0-0	--	6/30/2009	15.5	6.21	Yes	ng/kg
SSAL6-01	SSAL6-01-1BPC	0.5-1.5	--	5/18/2010	15.2	6.89	Yes	ng/kg
SA-69	SA69-0.5B	0.5-2	--	7/7/2009	14.4	7.72	Yes	ng/kg
RIDB-5	RIDB-5-0.5-20170311	0.5-1	--	3/11/2017	14.2	6.57	Yes	ng/kg
BDT-2-N-5	BDT-2-N-5-6BPC	0-0	--	8/25/2010	13.7	4.87	Yes	ng/kg
SA-35	SA35-0.5B	0-0	--	6/10/2009	13.2	5.18	Yes	ng/kg
RSAl4	RSAl4-0.5B	0.5-2	--	7/29/2009	11.5	6.72	Yes	ng/kg
RSAM8	RSAM8-0.5B	0-1	--	6/12/2009	11.4	4.46	Yes	ng/kg
SSAL7-02	SSAL7-02-1BPC	0.5-1.5	--	4/21/2010	11.4	7.92	Yes	ng/kg
CS-C07B-1	CS-C07B-1	0-0	--	4/20/2011	10.4	5.37	Yes	ng/kg
SA-92	SA92-1BR	0-0	--	12/15/2009	10.2	4.01	Yes	ng/kg
RIT-2-05	RIT-2-05-20141113	--	--	11/13/2014	9.84	2.79	Yes	ng/kg
RSAl6	RSAl6-0.5B	0-1	--	6/5/2009	9.71	2.95	Yes	ng/kg
SA-212	SA212-0.5B	0.5-2	--	9/28/2009	9.10	4.07	Yes	ng/kg
CS-D10-1	CS-D10-1	0-0	--	6/7/2011	8.18	4.96	Yes	ng/kg
SA-73	SA73-0.5B	0-1.5	--	7/29/2009	7.89	4.12	Yes	ng/kg
SA-114	SA114-1.5BR	0-0.5	--	12/16/2009	7.76	3.31	Yes	ng/kg
RSAN3	RSAN3-0.5B	0-1.5	--	7/8/2009	7.24	3.26	Yes	ng/kg
RSAl8	RSAl8-0BPC	0-0.5	--	6/17/2010	7.23	3.25	Yes	ng/kg
SA-75	SA75-0BPC	0-0	--	6/21/2010	7.05	3.01	Yes	ng/kg
RSAM2	RSAM2-0.5B	0.5-2	--	6/3/2009	6.68	2.97	Yes	ng/kg
RSAl6	RSAl6-0.5B	0-0	--	9/11/2009	6.40	3.47	Yes	ng/kg
RSAl6	RSAl6-0.5B	0-0.5	--	6/24/2009	6.33	3.51	Yes	ng/kg
CS-C05A-1	CS-C05A-1	0-0	--	4/20/2011	6.05	3.10	Yes	ng/kg
SA-28	SA28-0.5B	0.5-2	--	8/3/2009	5.76	5.59	Yes	ng/kg
RIT-3-02	RIT-3-02-20141113	--	--	11/13/2014	5.64	2.45	Yes	ng/kg
SA-150	SA150-1BR	0.5-1	--	12/15/2009	5.41	2.31	Yes	ng/kg
RSAl5	RSAl5-0.5B	0.5-2	--	8/5/2009	5.35	3.59	Yes	ng/kg
CS-E14C-1	CS-E14C-1	0-0	--	6/2/2011	5.14	2.32	Yes	ng/kg
TSB-GR-02	TSB-GR-02-0-FD	0-1.5	TSB-GR-02-0	11/19/2007	5.01	1.47	Yes	ng/kg
SA-185	SA185-0.5B	0.5-2	--	6/29/2009	4.84	2.15	Yes	ng/kg
CS-DC-4	CS-DC-4	0.5-0.5	--	6/2/2011	4.54	2.28	Yes	ng/kg
RSAl4	RSAl4-0.5B	0.5-2	--	7/24/2009	4.29	2.12	Yes	ng/kg
SA-75	SA75-1BR	0.5-1	--	12/11/2009	4.20	1.88	Yes	ng/kg
RSAP7	RSAP7-0.5B	0.5-2	--	10/27/2009	4.03	3.07	Yes	ng/kg
RSAl7	RSAl7-9B	0-1.5	--	10/12/2009	4.01	2.97	Yes	ng/kg
SA-151	SA151-0.5B	0.5-2	--	9/17/2009	3.90	2.45	Yes	ng/kg
SA-152	SA152009-0.5B	0-1.5	SA152-0.5B	6/4/2009	3.87	0.82	Yes	ng/kg
SA-138	SA138-0.5B	0.5-2.5	--	10/6/2009	3.86	2.86	Yes	ng/kg
SA-171	SA171-5B	0-1.5	--	10/19/2009	3.82	2.95	Yes	ng/kg
SA-141	SA141-14B	0-1.5	--	10/15/2009	3.58	2.88	Yes	ng/kg
RSAl7	RSAl7-0.5B	0.5-1.5	--	6/5/2009	3.50	1.18	Yes	ng/kg
SA-92	SA92-1.5BR	0-0.5	--	12/15/2009	3.41	1.41	Yes	ng/kg
SSAQ6-01	SSAQ6-01-1BPC	0-0.5	--	8/30/2010	3.08	1.49	Yes	ng/kg
SA-146	SA146-0.5B	0.5-2	--	8/4/2009	2.95	1.14	Yes	ng/kg
RSAl7	RSAl7-0.5B	0.5-2	--	10/27/2009	2.91	2.43	Yes	ng/kg
SA-141	SA141009-14B	0-1.5	SA141-14B	10/15/2009	2.88	2.32	Yes	ng/kg
TSB-GR-02	TSB-GR-02-0	0-1.5	--	11/19/2007	2.47	0.691	Yes	ng/kg
SA-176	SA176-0.5B	0-1	--	6/10/2009	1.61	1.06	Yes	ng/kg
SSAL3-05	SSAL3-05-1BPC	0.5-1.5	--	5/4/2010	1.43	0.646	Yes	ng/kg
SSAK5-05	SSAK5-05-9BPC	0-0	--	6/29/2010	1.39	0.891	Yes	ng/kg

**TABLE J4-4. Operations Area Soil TEQ Values
Nevada Environmental Response Trust Site
Henderson, Nevada**

Location ID	Sample ID	Depth (feet)	Parent Sample (if duplicate)	Sample Date	D/F Avian TEQ (ND=0.5DL)	Mammal D/F TEQ (ND=0.5DL)	Detect?	Units
SA-18	SA18-0.5	0-1.5	--	11/15/2006	1.38	0.819	Yes	ng/kg
EE-E14C-1	EE-E14C-1	0-0	--	6/2/2011	1.32	0.639	Yes	ng/kg
SA-55	SA55-0.5B	0.5-1.5	--	6/10/2009	0.958	0.624	Yes	ng/kg
SSAL8-01	SSAL8-01-1BPC	0-1	--	4/16/2010	0.952	0.682	Yes	ng/kg
SSAQ6-01	SSAQ6-01-2BPC	0.5-1.5	--	8/30/2010	0.879	0.395	Yes	ng/kg
SSAK2-02	SSAK2-02-0.0_01_BPC	0-0	--	2/9/2011	0.851	0.335	Yes	ng/kg
SSAK3-02	SSAK3-02-1BPC	0-0	--	4/8/2010	0.772	0.392	Yes	ng/kg
SA-31	SA31-0.5B	0.5-2	--	9/9/2009	0.588	0.365	Yes	ng/kg
RSAS3	RSAS3-0.5B	0.5-2	--	8/26/2009	0.496	0.233	Yes	ng/kg
SSAO8-05	SSAO8-05-0BPC	0-1	--	9/27/2010	0.467	0.184	Yes	ng/kg
TSB-GJ-04	TSB-GJ-04-0	0-1.5	--	11/19/2007	0.445	0.308	Yes	ng/kg
RSAS3	RSAS3009-0.5B	0.5-2	RSAS3-0.5B	8/26/2009	0.422	0.122	Yes	ng/kg
RSAN4	RSAN4-0.5B	0-1.5	--	7/8/2009	0.365	0.243	Yes	ng/kg
TSB-GJ-05	TSB-GJ-05-0	0-1.5	--	11/19/2007	0.355	0.235	No	ng/kg
SA-147	SA147-0.5B	0.5-2	--	8/4/2009	0.349	0.211	Yes	ng/kg
TSB-GJ-02	TSB-GJ-02-0	0-1.5	--	11/19/2007	0.333	0.196	No	ng/kg
TSB-GJ-03	TSB-GJ-03-0	0-1.5	--	11/19/2007	0.309	0.189	No	ng/kg
RIT-3-01	RIT-3-01-20141113	--	--	11/13/2014	0.300	0.213	Yes	ng/kg
TSB-GJ-02	TSB-GJ-02-0-FD	0-1.5	TSB-GJ-02-0	11/19/2007	0.282	0.179	No	ng/kg
RSAT6	RSAT6-0.5B	0.5-2	--	8/28/2009	0.265	0.202	Yes	ng/kg
SSAI3-02	SSAI3-02-15BPC	0-1	--	8/7/2010	0.251	0.161	Yes	ng/kg
SSAI3-02	SSAI3-02-14BPC	0-0	--	8/7/2010	0.179	0.131	Yes	ng/kg
SA-116	SA116-0.5B	0.5-2	--	9/2/2009	0.0959	0.0546	Yes	ng/kg

Notes:

D/F = Dioxin and furans
DL = Detection limit
mg/kg = Milligrams per kilogram
ND = Nondetects
TEQ = Toxicity equivalent quotient

	Avian TEQ	Mammal TEQ
Average Value	920	478
95% UCL	1,443	870
Max Value	44,947	31,441

**TABLE J4-5. Food Web Uptake Factors For Dioxins and Furans in Soil
Nevada Environmental Response Trust Site
Henderson, Nevada**

Constituent	Uptake To	BAF and Source		Wet or Dry Weight	Wet Weight BAF
Dioxin and Furan TEQs	Plants	0.0056	a	DW	0.000840
Dioxin and Furan TEQs	Prey mammals	0.000741	b	WW	0.000741

Constituent	Uptake to Terrestrial Invertebrates	BAF and Source		Wet or Dry Weight	Wet Weight BAF
Dioxin and Furan TEQs	Calculated using Eco-SSL formula at average TOC	0.900	c	WW	0.900
Dioxin and Furan TEQs	Calculated using Eco-SSL formula at 85th percentile foc	0.398	c	WW	0.398
Dioxin and Furan TEQs	Calculated using Eco-SSL formula at 95th percentile foc	0.241	c	WW	0.241
Dioxin and Furan TEQs	Uptake factor used for OU-1 Refined SLERA	0.190	--	WW	0.190
Dioxin and Furan TEQs	Calculated using Eco-SSL formula at 99th percentile foc	0.173	c	WW	0.173
Dioxin and Furan TEQs	Calculated using Eco-SSL formula at maximum foc	0.131	c	WW	0.131
Dioxin and Furan TEQs	USEPA Region 6	1.59	a	WW	1.59
Dioxin and Furan TEQs	Lowest Literature BAF	0.00898	d	WW	0.00898
Dioxin and Furan TEQs	Average Literature BAF	0.391	d	WW	0.391
Dioxin and Furan TEQs	Highest Literature BAF	1.52	d	WW	1.52

- (a) USEPA Region 6. 1999. Screening level ecological risk assessment protocol for hazardous waste combustion facilities. Volume One. EPA530-D-99-001A. August. Appendix C2: Soil-to-plant and sediment-to-plant bioaccumulation factors.
- (b) USEPA Region 6. 1999. Screening Level Ecological Risk Assessment Protocol for Hazardous Waste Combustion Facilities. Volume One (EPA530-D-99-001A). August. Appendix D: bioaccumulation factors for wildlife measurement receptors. Value for 2,3,7,8-TCDD and least shrew used as a surrogate.
- (c) Ramboll calculated uptake factor based on USEPA 2007. USEPA. 2007. Guidance for Developing Ecological Soil Screening Levels (Eco-SSLs). Attachment 4-1 Exposure Factors and Bioaccumulation Models for Derivation of Wildlife Eco-SSLs. OSWER Directive 9285.7-55. Revised April 2007. See appendix text for more details regarding the calculation. Value for 2,3,7,8-TCDD used as a surrogate. See previous table.
- (d) These values were taken from two papers that had BAFs for non-earthworm invertebrates. See text and previous table.

Plants are assumed to be 15% solids. The dry weight is multiplied by 0.15 to convert to wet weight.

Notes:

- BAF = bioaccumulation factor
- DW = Dry weight
- Eco-SSL = Ecological soil screening level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxic equivalent quotient
- TOC = Total Organic Carbon
- USEPA= United States Environmental Protection Agency
- WW = Wet weight

TABLE J4-6. Operations Area Exposure Point Concentrations for Dioxin and Furan TEQs
Nevada Environmental Response Trust Site
Henderson, Nevada

Constituent	Operations Area (mg/kg)	
	95% UCL	MAX
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	4.49E-02
Calculated D/F Mammal TEQ (ND=0.5DL)	8.70E-04	3.14E-02

Notes:

% = Percent

D/F = Dioxin and furans

DL = Detection limit

MAX = Maximum

mg/kg = Milligrams per kilogram

ND = Nondetects

TEQ = Toxicity equivalent quotient

UCL = Upper confidence level

**TABLE J4-7: Summary of Wildlife Food Web Input Variables and Receptor Parameters
Nevada Environmental Response Trust Site
Henderson, Nevada**

Guild	Name	Species	Water IR w (L/day)	Food IR f (kg ww/day)	Surface Soil IR s (kg dw/day)	Terrestrial Dietary Makeup			BW (kg)	Range (ha)	ED (unitless)	AUF (unitless)	
						Plants (%)	Inverts (%)	Mammals (%)				Species-Specific AUF (Facility Area)	Con- servative AUF
Carnivore	Western Burrowing Owl	<i>Athene cunicularia</i>	1.66E-02	4.34E-02	6.52E-04	0.0	0.75	0.25	1.51E-01	113	1	1	1
Insectivore	American Robin	<i>Turdus migratorius</i>	1.10E-02	9.76E-02	4.88E-04	0.50	0.50	0.0	8.10E-02	0.48	1	1	1
Insectivore	Desert Shrew	<i>Nitiosorex crawfordi</i>	6.88E-04	2.30E-03	8.98E-05	0.00	0.95	0.05	4.00E-03	0.30	1	1	1
Insectivore	Fringed Myotis	<i>Myotis thysanodes</i>	1.14E-03	4.65E-03	0.00E+00	0.0	1.0	0.0	7.00E-03	29700	1	0.0047	1
Omnivore	Raccoon	<i>Procyon lotor</i>	4.68E-01	1.14E+00	2.67E-02	0.6	0.4	0.0	5.62E+00	630	1	0.22	1
Herbivore	Great Basin Pocket Mouse	<i>Perognathus parvus</i>	0.00E+00	4.04E-03	1.76E-04	0.9	0.1	0.0	2.30E-02	1.09	1	1	1

Notes:

The sources of the receptor parameter information are found in Appendix G.
Note that this ONLY includes receptors that eat invertebrates.

% = Percent

AUF = Area use factor

BW = Body weight

ED = Exposure duration - percentage of the year the receptor spends in the area

ha = Hectares

Inverts = Invertebrates

IR f = Ingestion rate of food (wet weight)

IR s = Ingestion rate of surface soil (dry weight)

IR w = Ingestion rate of water

kg = Kilograms

kg dw/day = Kilograms dry weight per day

kg ww/day = Kilograms wet weight per day

L/day = Liters per day

Facility Area Size (in hectares): 140

**TABLE J4-8. Dioxin and Furan Toxicity Reference Values for Mammals and Birds
Nevada Environmental Response Trust Site
Henderson, Nevada**

Chemical	Mammal TRV		Avian TRV	
	NOAEL	LOAEL	NOAEL	LOAEL
Dioxin and Furan TEQs	8.40E-06	3.10E-05	1.40E-05	1.40E-04

Notes:

D/F = Dioxin/furans

LOAEL = Lowest observed adverse effects level

mg/kg-bw/day = Milligrams per kilogram body weight per day

NOAEL = No observed adverse effects level

TEQ = Toxic equivalent quotient

TRV = Toxicity reference value

TSRF = Tittabawassee & Saginaw River & Floodplain

The source of the TRVs are explained in Section 4 of the main text.

TABLE J4-9A. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Western Burrowing Owl: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	8.40E-04	USEPA Region 6, 1999	1.21E-06	0%	0

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	7.41E-04	USEPA Region 6, 1999	1.07E-06	25%	7.68E-08

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	0.00898	Lowest Literature BAF	1.30E-05	75%	2.79E-06
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.190	OU-1 Uptake Factor	2.74E-04	75%	5.91E-05
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.900	Eco-SSL Average TOC	1.30E-03	75%	2.80E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.391	Average Literature BAF	5.65E-04	75%	1.22E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		1.59	USEPA Region 6	2.29E-03	75%	4.95E-04

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	6.23E-06	0	7.68E-08	2.79E-06	Lowest Literature BAF	9.10E-06
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		6.23E-06	0	7.68E-08	5.91E-05	OU-1 Uptake Factor	6.54E-05
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		6.23E-06	0	7.68E-08	2.80E-04	Eco-SSL Average TOC	2.86E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		6.23E-06	0	7.68E-08	1.22E-04	Average Literature BAF	1.28E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		6.23E-06	0	7.68E-08	4.95E-04	USEPA Region 6	5.01E-04

Area Use Factor = 1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	NOAEL HQ	LOAEL HQ
Calculated D/F Avian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	9.10E-06	1.40E-05	1.40E-04	0.6	0.06
Calculated D/F Avian TEQ (ND=0.5DL)		OU-1 Uptake Factor	6.54E-05	1.40E-05	1.40E-04	5	0.5
Calculated D/F Avian TEQ (ND=0.5DL)		Eco-SSL Average TOC	2.86E-04	1.40E-05	1.40E-04	20	2
Calculated D/F Avian TEQ (ND=0.5DL)		Average Literature BAF	1.28E-04	1.40E-05	1.40E-04	9	0.9
Calculated D/F Avian TEQ (ND=0.5DL)		USEPA Region 6	5.01E-04	1.40E-05	1.40E-04	40	4

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Avian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	9.10E-06	68	0	0.84	31
Calculated D/F Avian TEQ (ND=0.5DL)		OU-1 Uptake Factor	6.54E-05	9.5	0	0.12	90
Calculated D/F Avian TEQ (ND=0.5DL)		Eco-SSL Average TOC	2.86E-04	2.2	0	0.027	98
Calculated D/F Avian TEQ (ND=0.5DL)		Average Literature BAF	1.28E-04	4.9	0	0.06	95
Calculated D/F Avian TEQ (ND=0.5DL)		USEPA Region 6	5.01E-04	1.2	0	0.015	99

TABLE J4-9A. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Western Burrowing Owl: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ<1
1	HQ = 1
9	1< HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model assumes an area use factor (AUF) of 1.

TABLE J4-9B. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for American Robin: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	8.40E-04	USEPA Region 6, 1999	1.21E-06	50%	7.30E-07

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	7.41E-04	USEPA Region 6, 1999	1.07E-06	0%	0

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	0.00898	Lowest Literature BAF	1.30E-05	50%	7.81E-06
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.190	OU-1 Uptake Factor	2.74E-04	50%	1.65E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.900	Eco-SSL Average TOC	1.30E-03	50%	7.83E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		0.391	Average Literature BAF	5.65E-04	50%	3.40E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		1.59	USEPA Region 6	2.29E-03	50%	1.38E-03

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03	95% UCL	8.69E-06	7.30E-07	0	7.81E-06	Lowest Literature BAF	1.72E-05
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		8.69E-06	7.30E-07	0	1.65E-04	OU-1 Uptake Factor	1.75E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		8.69E-06	7.30E-07	0	7.83E-04	Eco-SSL Average TOC	7.92E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		8.69E-06	7.30E-07	0	3.40E-04	Average Literature BAF	3.50E-04
Calculated D/F Avian TEQ (ND=0.5DL)	1.44E-03		8.69E-06	7.30E-07	0	1.38E-03	USEPA Region 6	1.39E-03

Area Use Factor = 1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	NOAEL HQ	LOAEL HQ
Calculated D/F Avian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	1.72E-05	1.40E-05	1.40E-04	1	0.1
Calculated D/F Avian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.75E-04	1.40E-05	1.40E-04	10	1
Calculated D/F Avian TEQ (ND=0.5DL)		Eco-SSL Average TOC	7.92E-04	1.40E-05	1.40E-04	60	6
Calculated D/F Avian TEQ (ND=0.5DL)		Average Literature BAF	3.50E-04	1.40E-05	1.40E-04	20	2
Calculated D/F Avian TEQ (ND=0.5DL)		USEPA Region 6	1.39E-03	1.40E-05	1.40E-04	100	10

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Avian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	1.72E-05	50	4.2	0	45
Calculated D/F Avian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.75E-04	5	0.42	0	95
Calculated D/F Avian TEQ (ND=0.5DL)		Eco-SSL Average TOC	7.92E-04	1.1	0.092	0	99
Calculated D/F Avian TEQ (ND=0.5DL)		Average Literature BAF	3.50E-04	2.5	0.21	0	97
Calculated D/F Avian TEQ (ND=0.5DL)		USEPA Region 6	1.39E-03	0.62	0.052	0	99

TABLE J4-9B. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for American Robin: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ<1
1	HQ = 1
9	1 < HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model assumes an area use factor (AUF) of 1.

TABLE J4-9C. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Desert Shrew: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	8.40E-04	USEPA Region 6, 1999	7.31E-07	0%	0

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	7.41E-04	USEPA Region 6, 1999	6.45E-07	5%	1.85E-08

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	0.00898	Lowest Literature BAF	7.81E-06	95%	4.27E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.190	OU-1 Uptake Factor	1.65E-04	95%	9.03E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.900	Eco-SSL Average TOC	7.83E-04	95%	4.28E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.391	Average Literature BAF	3.41E-04	95%	1.86E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.59	USEPA Region 6	1.38E-03	95%	7.56E-04

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	1.95E-05	0	1.85E-08	4.27E-06	Lowest Literature BAF	2.38E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.95E-05	0	1.85E-08	9.03E-05	OU-1 Uptake Factor	1.10E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.95E-05	0	1.85E-08	4.28E-04	Eco-SSL Average TOC	4.47E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.95E-05	0	1.85E-08	1.86E-04	Average Literature BAF	2.06E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.95E-05	0	1.85E-08	7.56E-04	USEPA Region 6	7.75E-04

Area Use Factor = 1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	NOAEL HQ	LOAEL HQ
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	2.38E-05	8.40E-06	3.10E-05	3	0.8
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.10E-04	8.40E-06	3.10E-05	10	4
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	4.47E-04	8.40E-06	3.10E-05	50	10
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	2.06E-04	8.40E-06	3.10E-05	20	7
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	7.75E-04	8.40E-06	3.10E-05	90	30

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	2.38E-05	82	0	0.078	18
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.10E-04	18	0	0.017	82
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	4.47E-04	4.4	0	0.0041	96
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	2.06E-04	9.5	0	0.009	90
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	7.75E-04	2.5	0	0.0024	97

TABLE J4-9C. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Desert Shrew: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ < 1
1	HQ = 1
9	1 < HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model assumes an area use factor (AUF) of 1.

TABLE J4-9D. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Fringed Myotis Bat: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	8.40E-04	USEPA Region 6, 1999	7.31E-07	0%	0

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	7.41E-04	USEPA Region 6, 1999	6.45E-07	0%	0

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	0.00898	Lowest Literature BAF	7.81E-06	100%	5.19E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.190	OU-1 Uptake Factor	1.65E-04	100%	1.10E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.900	Eco-SSL Average TOC	7.83E-04	100%	5.21E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.391	Average Literature BAF	3.41E-04	100%	2.26E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.59	USEPA Region 6	1.38E-03	100%	9.20E-04

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	0	0	0	5.19E-06	Lowest Literature BAF	5.19E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0	0	0	1.10E-04	OU-1 Uptake Factor	1.10E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0	0	0	5.21E-04	Eco-SSL Average TOC	5.21E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0	0	0	2.26E-04	Average Literature BAF	2.26E-04
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0	0	0	9.20E-04	USEPA Region 6	9.20E-04

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	Area Use Factor = 1		Area Use Factor = 0.0047	
						NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	5.19E-06	8.40E-06	3.10E-05	0.6	0.2	0.003	0.0008
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.10E-04	8.40E-06	3.10E-05	10	4	0.06	0.02
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	5.21E-04	8.40E-06	3.10E-05	60	20	0.3	0.08
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	2.26E-04	8.40E-06	3.10E-05	30	7	0.1	0.03
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	9.20E-04	8.40E-06	3.10E-05	100	30	0.5	0.1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	5.19E-06	0	0	0	100
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.10E-04	0	0	0	100
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	5.21E-04	0	0	0	100
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	2.26E-04	0	0	0	100
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	9.20E-04	0	0	0	100

TABLE J4-9D. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Fringed Myotis Bat: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ < 1
1	HQ = 1
9	1 < HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model shows results for an area use factor (AUF) of 1 as well as a species-specific, site-specific AUF.

TABLE J4-9E. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Raccoon: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	8.40E-04	USEPA Region 6, 1999	7.31E-07	60%	8.87E-08

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	7.41E-04	USEPA Region 6, 1999	6.45E-07	0%	0

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	0.00898	Lowest Literature BAF	7.81E-06	40%	6.32E-07
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.190	OU-1 Uptake Factor	1.65E-04	40%	1.34E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.900	Eco-SSL Average TOC	7.83E-04	40%	6.33E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.391	Average Literature BAF	3.41E-04	40%	2.75E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.59	USEPA Region 6	1.38E-03	40%	1.12E-04

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	4.13E-06	8.87E-08	0	6.32E-07	Lowest Literature BAF	4.85E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		4.13E-06	8.87E-08	0	1.34E-05	OU-1 Uptake Factor	1.76E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		4.13E-06	8.87E-08	0	6.33E-05	Eco-SSL Average TOC	6.76E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		4.13E-06	8.87E-08	0	2.75E-05	Average Literature BAF	3.18E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		4.13E-06	8.87E-08	0	1.12E-04	USEPA Region 6	1.16E-04

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	Area Use Factor = 1		Area Use Factor = 0.22	
						NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	4.85E-06	8.40E-06	3.10E-05	0.6	0.2	0.1	0.03
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.76E-05	8.40E-06	3.10E-05	2	0.6	0.5	0.1
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	6.76E-05	8.40E-06	3.10E-05	8	2	2	0.5
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	3.18E-05	8.40E-06	3.10E-05	4	1	0.8	0.2
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	1.16E-04	8.40E-06	3.10E-05	10	4	3	0.8

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	4.85E-06	85	1.8	0	13
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	1.76E-05	23	0.5	0	76
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	6.76E-05	6.1	0.13	0	94
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	3.18E-05	13	0.28	0	87
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	1.16E-04	3.6	0.076	0	96

TABLE J4-9E. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Raccoon: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ < 1
1	HQ = 1
9	1 < HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model shows results for an area use factor (AUF) of 1 as well as a species-specific, site-specific AUF.

TABLE J4-9F. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Great Basin Pocket Mouse: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Constituent	Soil mg/kg	Concentration Type	Plant Uptake Value In Wet Weight	Source	Plant Concentration mg/kg ww	% of Diet	TEQs in Diet from Plants mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	8.40E-04	USEPA Region 6, 1999	7.31E-07	90%	1.16E-07

Constituent	Soil mg/kg	Concentration Type	Prey Mammal Uptake Value In Wet Weight	Source	Prey Mammal Concentration mg/kg ww	% of Diet	TEQs in Diet from Prey Mammals mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	7.41E-04	USEPA Region 6, 1999	6.45E-07	0%	0

Constituent	Soil mg/kg	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Invertebrate Concentration mg/kg ww	% of Diet	TEQs in Diet from Invertebrates mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	0.00898	Lowest Literature BAF	7.81E-06	10%	1.38E-07
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.190	OU-1 Uptake Factor	1.65E-04	10%	2.91E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.900	Eco-SSL Average TOC	7.83E-04	10%	1.38E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		0.391	Average Literature BAF	3.41E-04	10%	5.99E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		1.59	USEPA Region 6	1.38E-03	10%	2.43E-05

Constituent	Soil mg/kg	Concentration Type	TEQs in Diet from Soil mg/kg bw-d	TEQs in Diet from Plants mg/kg bw-d	TEQs in Diet from Prey Mammals mg/kg bw-d	TEQs in Diet from Invertebrates mg/kg bw-d	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04	95% UCL	6.68E-06	1.16E-07	0	1.38E-07	Lowest Literature BAF	6.94E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		6.68E-06	1.16E-07	0	2.91E-06	OU-1 Uptake Factor	9.71E-06
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		6.68E-06	1.16E-07	0	1.38E-05	Eco-SSL Average TOC	2.06E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		6.68E-06	1.16E-07	0	5.99E-06	Average Literature BAF	1.28E-05
Calculated D/F Mammalian TEQ (ND=0.5DL)	8.70E-04		6.68E-06	1.16E-07	0	2.43E-05	USEPA Region 6	3.11E-05

Area Use Factor = 1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	NOAEL TRV mg/kg bw-d	LOAEL TRV mg/kg bw-d	NOAEL HQ	LOAEL HQ
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	6.94E-06	8.40E-06	3.10E-05	0.8	0.2
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	9.71E-06	8.40E-06	3.10E-05	1	0.3
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	2.06E-05	8.40E-06	3.10E-05	2	0.7
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	1.28E-05	8.40E-06	3.10E-05	2	0.4
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	3.11E-05	8.40E-06	3.10E-05	4	1

Constituent	Concentration Type	Invertebrate Uptake Type	Total Daily Intake mg/kg bw-d	% From Soil	% From Plants	% From Prey Mammals	% From Invertebrates
Calculated D/F Mammalian TEQ (ND=0.5DL)	95% UCL	Lowest Literature BAF	6.94E-06	96	1.7	0	2
Calculated D/F Mammalian TEQ (ND=0.5DL)		OU-1 Uptake Factor	9.71E-06	69	1.2	0	30
Calculated D/F Mammalian TEQ (ND=0.5DL)		Eco-SSL Average TOC	2.06E-05	32	0.56	0	67
Calculated D/F Mammalian TEQ (ND=0.5DL)		Average Literature BAF	1.28E-05	52	0.9	0	47
Calculated D/F Mammalian TEQ (ND=0.5DL)		USEPA Region 6	3.11E-05	21	0.37	0	78

TABLE J4-9F. Bioaccumulation Factor Uncertainty Evaluation Showing Potential Daily Dose and Hazard Quotients for Dioxins and Furans for Great Basin Pocket Mouse: Operations Area Nevada Environmental Response Trust Site Henderson, Nevada

Notes:

- % = Percent
- AUF = Area use factor
- BAF = bioaccumulation factor
- D/F = Dioxins and furans
- DL = Detection limit
- Eco-SSL = Ecological Soil Screening Level
- HQ = Hazard quotient
- LOAEL = Lowest observed adverse effects level
- mg/kg = Milligrams per kilogram
- mg/kg-bw d = Milligrams per kilogram bodyweight per day
- ND = Nondetects
- NOAEL = No observed adverse effects level
- OU-1 = OU-1 Refined SLERA Area
- TEQ = Toxicity equivalent quotient
- TOC = Total Organic Carbon
- UCL = Upper confidence limit
- USEPA = United States Environmental Protection Agency
- ww = Wet weight

0.5	HQ < 1
1	HQ = 1
9	1 < HQ < 10
90	10 ≤ HQ < 100
1,000	100 ≤ HQ

This food web model assumes an area use factor (AUF) of 1.

**TABLE J4-10. Summary of Hazard Quotients
Nevada Environmental Response Trust Site
Henderson, Nevada**

AVIANS

AVIANS	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Western Burrowing Owl AUF = 1		American Robin AUF = 1	
				NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Calculated D/F TEQ (ND=0.5DL)	95% UCL	0.00898	Lowest Literature BAF	0.6	0.06	1	0.1
Calculated D/F TEQ (ND=0.5DL)		0.190	OU-1 Uptake Factor	5	0.5	10	1
Calculated D/F TEQ (ND=0.5DL)		0.900	Eco-SSL Average TOC	20	2	60	6
Calculated D/F TEQ (ND=0.5DL)		0.391	Average Literature BAF	9	0.9	20	2
Calculated D/F TEQ (ND=0.5DL)		1.59	USEPA Region 6	40	4	100	10

MAMMALS

Constituent	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Desert Shrew AUF = 1		Fringed Myotis Bat AUF = 1		Fringed Myotis Bat AUF < 1	
				NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Calculated D/F TEQ (ND=0.5DL)	95% UCL	0.00898	Lowest Literature BAF	3	0.8	0.6	0.2	0.003	0.0008
Calculated D/F TEQ (ND=0.5DL)		0.190	OU-1 Uptake Factor	10	4	10	4	0.06	0.02
Calculated D/F TEQ (ND=0.5DL)		0.900	Eco-SSL Average TOC	50	10	60	20	0.3	0.08
Calculated D/F TEQ (ND=0.5DL)		0.391	Average Literature BAF	20	7	30	7	0.1	0.03
Calculated D/F TEQ (ND=0.5DL)		1.59	USEPA Region 6	90	30	100	30	0.5	0.1

MAMMALS

Constituent	Concentration Type	Invertebrate Uptake Value in Wet Weight	Source	Raccoon AUF = 1		Raccoon AUF < 1		Great Basin Pocket Mouse AUF = 1	
				NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ	NOAEL HQ	LOAEL HQ
Calculated D/F TEQ (ND=0.5DL)	95% UCL	0.00898	Lowest Literature BAF	0.6	0.2	0.1	0.03	0.8	0.2
Calculated D/F TEQ (ND=0.5DL)		0.190	OU-1 Uptake Factor	2	0.6	0.5	0.1	1	0.3
Calculated D/F TEQ (ND=0.5DL)		0.900	Eco-SSL Average TOC	8	2	2	0.5	2	0.7
Calculated D/F TEQ (ND=0.5DL)		0.391	Average Literature BAF	4	1	0.8	0.2	2	0.4
Calculated D/F TEQ (ND=0.5DL)		1.59	USEPA Region 6	10	4	3	0.8	4	1

Notes:

% = Percent

AUF = Area use factor

BAF = bioaccumulation factor

D/F = Dioxins and furans

DL = Detection limit

Eco-SSL = Ecological soil screening level

HQ = Hazard quotient

NOAEL = No observed adverse effects level

ND = Nondetects

NOAEL = No observed adverse effects level

OU-1 = OU-1 Refined SLERA Area

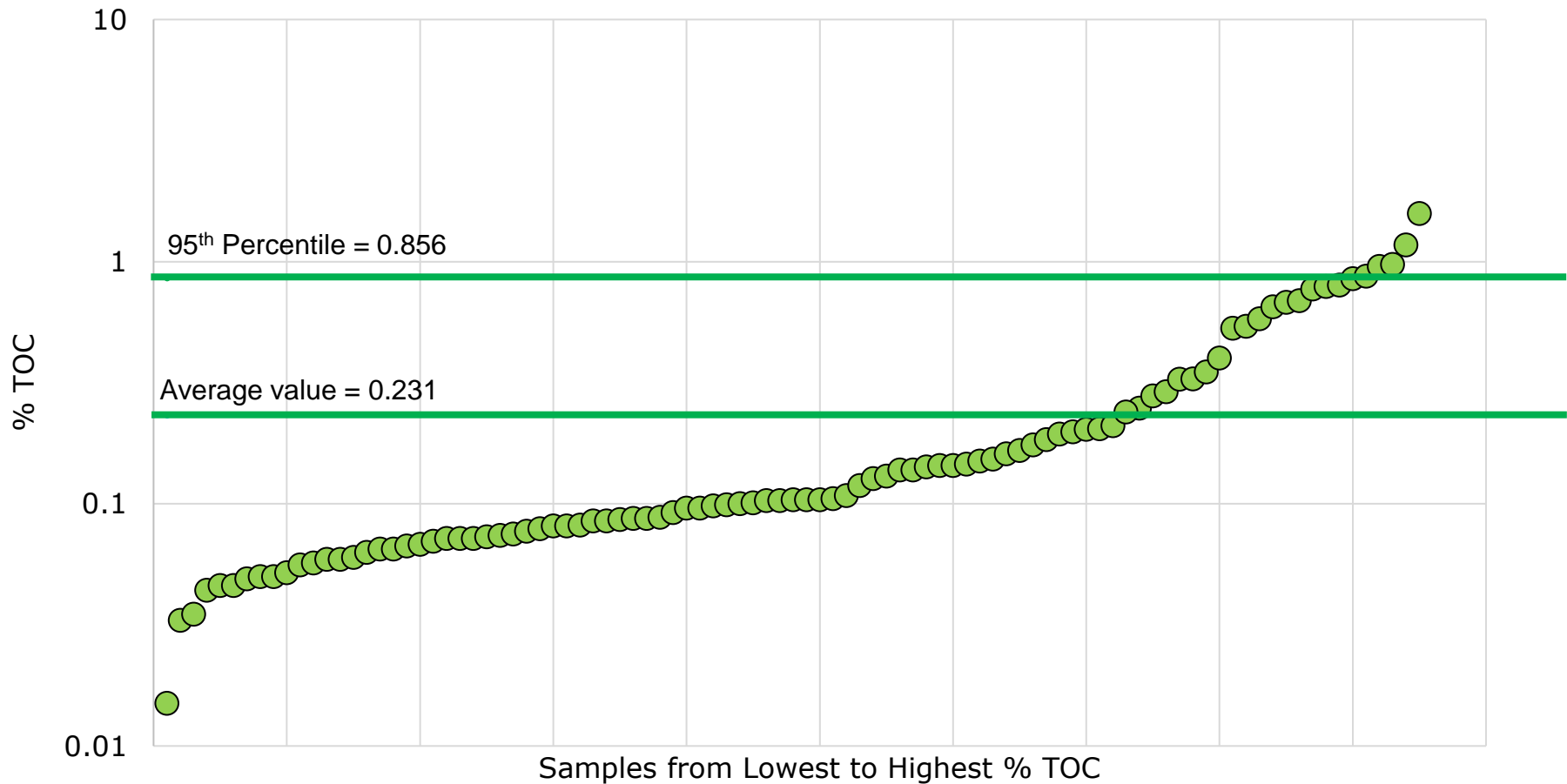
TEQ = Toxicity equivalent quotient

TOC = Total Organic Carbon

UCL = Upper confidence limit

USEPA= United States Environmental Protection Agency

FIGURES

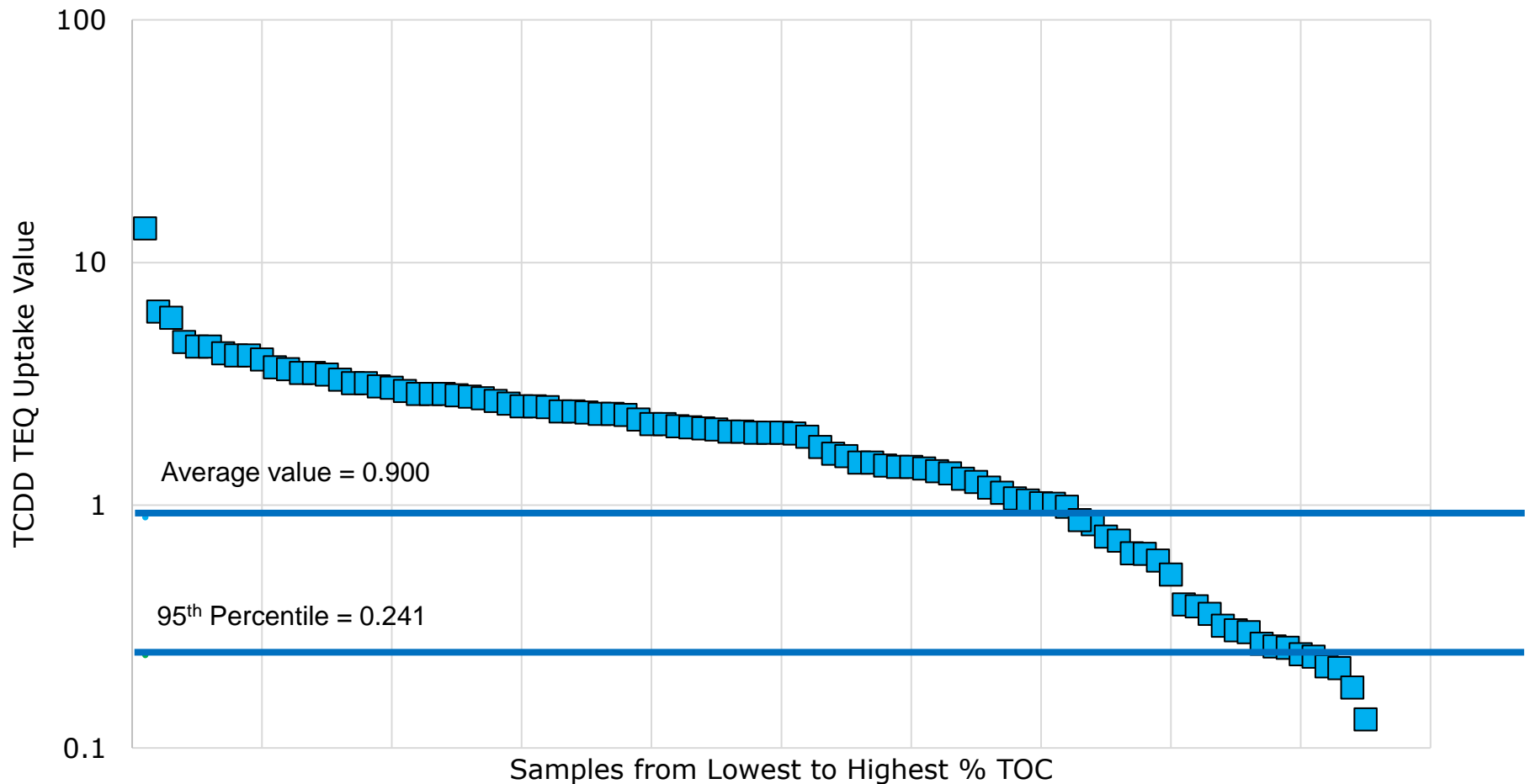


Notes:
 OU-1 = Operable Unit 1
 TOC = Total organic carbon

This figure shows the range of TOC values in Operations Area of OU-1 from lowest to highest. The average and 95th percentile values are also shown.



TOC in Operations Area Soil Samples from Lowest to Highest
 NERT Environmental Response Trust Site
 Henderson Nevada



Notes:

OU-1 = Operable Unit 1

TCDD = 2,3,7,8-Tetrachlorodibenzodioxin

TEQ = Toxicity equivalents quotient

TOC = Total organic carbon

This figure shows the range of TCDD TEQ uptake values in the Operations Area of OU-1 from lowest to highest. The average and 95th percentile values are also shown.



TCDD TEQ Uptake Based on Operations Area TOC Sample Concentrations

NERT Environmental Response Trust Site

Henderson Nevada

FIGURE

J4-2

Refined Screening Level Ecological Risk Assessment
for Operable Unit-2, Revision 2
Nevada Environmental Response Trust, Henderson, Nevada

APPENDIX H-5
UNCERTAINTIES ASSOCIATED WITH USING ECOSAR FOR SOIL CRITERIA

UNCERTAINTIES USING THE ECOSAR MODEL FOR SOIL CRITERIA

Overview

Many of USEPA Region 4's soil criteria (USEPA 2018) are based on the ECOSAR model (<https://www.epa.gov/tsca-screening-tools/ecological-structure-activity-relationships-ecosar-predictive-model>) combined with the "Region 4 soil model." ECOSAR estimates aquatic toxicity values for each chemical based on only the chemical structure and solubility. The relationship of chemical structure to biological activity and toxicity is called a "structure-activity relationship" (SAR). The math from ECOSAR predicts a Quantitative Structure-Activity Relationship (QSAR) which predicts quantitative toxicological endpoints for aquatic organisms (green algae, daphnids, and fathead minnows) based solely on the chemical structure and water solubility. The Region 4 soil model calculates a soil criterion based on the water quality benchmark from ECOSAR, the soil fraction of organic carbon (assumes 1% soil organic carbon), chemical characteristics, and three assumed values of soil (water content, aeration porosity, and soil bulk density).

There are many uncertainties in this process, not the least of which are due to the difference between whatever aquatic organism the ECOSAR was based on (Region 4 does not specify and has not released the ECOSAR information for the modeled chemicals) and soil invertebrates coupled with the specificity and accuracy of the ECOSAR model itself. While the ECOSAR toxicity values are a useful place to start an investigation of chemicals where there is little-to-no toxicity testing, in general, actual measured toxicity values are less uncertain than modeled ones. ECOSAR itself was designed to be able to process large number of chemicals in relatively short timespans to prioritize further testing (Cronin et al., 2003; Sanderson, 2003; de Hass et al., 2011; Hulzebos and Posthumus, 2019), not for creating environmental criteria. The reason why it is not generally used for the creation of criteria is because of the uncertainties inherent in ECOTOX. For instance, some of the structure-activity relationships are based on as few as four chemicals and have an r^2 value (r^2 is an estimate of how well one variable predicts another variable, or how well ECOSAR estimated toxicity estimates measured toxicity) of 0.7 (Hulzebos and Posthumus, 2019). The USEPA (Office of Pollution Prevention and Toxics, Toxic Substances Control Act, Endocrine Disruptors Screening and Testing Advisory Committee, chemical premanufacture notifications) relies on ECOSAR to help screen chemicals to find those in need of the most urgent testing (Cronin et al., 2003) but they did not choose to use them for the federally promulgated water quality criteria (which are based on copious biological testing). While ECOSAR is a good tool to show where to start an investigation, it rarely is the last word on the subject.

The Last 25 Years of ECOSAR

As the ECOSAR model has been in a state of continuous improvement for the better part of 25 years. Through the years, many studies have striven to show how well it works.

- Kaiser et al., (1999) was published the year after ECOSAR became publicly available (though structure-activity relationships had been a subject of scientific interest by the USEPA since the early 80s). Their initial analysis was:

"Our concerns with ECOSAR are threefold:

(i) most of the linear correlations developed from the empirical toxicity data are statistically insignificant as they are derived from too few measured data - obvious from correlation coefficients near or at 1.0;

(ii) the statistics stated for many of the equations are highly inflated by including several measurements for the same compound as independent variables within one class of compounds - up to three times the actual number of compounds; and

(iii) the classification of compounds is inconsistent and contains elements of both a chemical nature and the compounds' use - the latter is subject to interpretation and change."

In the next couple of decades of scientific literature, these concerns haven't changed - though the underlying data has gotten much better.

- Hulzebos and Posthumus (2003) found that ECOSAR predicted the wrong magnitude of toxicity for about one third of the roughly 60 chemicals tested. In fact, when they set up reasonable criteria for "unreliable" QSARs (such as the QSAR is based on $n \leq 4$ data or number of data is not recorded, $r^2 < 0.7$, lack of regression lines, misclassification of a chemical) they found that out of the 46 classes of chemicals and 123 structure-activity relationships in ECOSAR that 78% if the structure-activity relationships were considered "unreliable".
- Sanderson et al., (2003) compared ECOSAR and experimental data for 20 pharmaceutical chemicals and found that 80% of the chemicals tested, ECOSAR overestimated the environmental toxicity of these chemicals (see Figure 4 of that document). Pharmaceutical chemicals are (necessarily) biologically active and may have toxic modes of action that are quite different than the chemicals used to develop the math underlying ECOSAR (for instance, the pharmaceutical may disrupt bacterial cell walls - so testing it on algae, daphnids, and fathead minnows is of questionable use). The open question is, does ECOSAR adequately model the modes of action of the constituents of concern?
- Bermúdez-Saldaña (2005) compared ECOSAR vs ECOTOX data for dimethoate and found that ECOSAR underestimated its toxicity.
- Tunkel et al., (2005) summarized the results of an intense workshop in Setubal, Portugal in 2002 by the Society for Environmental Toxicology and Chemistry that began the process of creating guidance on "the development and use of QSARs". The journal for that society - Environmental Toxicology and Chemistry - devoted an entire issue (volume 22, number 8, 2003) to review articles about mathematical models of chemical properties, fate and effects, and biological activity - QSARs. They noted that there were insufficient studies that compared QSAR predicted toxic concentrations to measured toxicity values (and in the next decade-or-so of research, many papers were published that did just this). They used ECOSAR (and other models) to predict toxicity for chemicals that were not present in the model database. ECOSAR had an r^2 of 0.74 for fish, though no data for invertebrates were compared.
- Reuschenbach et al., (2008) set out to compare acute toxicity data for fish, daphnids, and green algae with ECOSAR outputs for 1000 chemicals. For daphnids (presumably the organism USEPA Region 4 used in their soil criteria development)

ECOSAR predicted the toxicity testing derived value in 51.5% of samples, overestimated toxicity in 26.5% of samples, and underpredicted toxicity in 22% of samples (see Table 4 of Reuschenbach et al., 2008).

- Dom et al., (2010) compared ECOSAR predictions versus experimental data for a set of four chloroanilines. For algae, ECOSAR predicted the same magnitude of toxicity as the experimental data in 3 of 4 chemicals. For daphnids, it was 1 of 4 chemicals, and for fish it was 2 of 3 chemicals.
- de Hass (2011) compared ECOSAR output to toxicity data for about 20 chemicals to investigate its performance calculating fish chronic toxicity, and found generally excellent agreement, with ECOSAR showing a slight overestimation. They also reported that the validation for long term algae was good, but that daphnids had a much lower validation ratio.
- Barron et al., (2012) prepared ECOSAR toxicity values (using KowWin from USEPA's EPI Suite program <https://www.epa.gov/tsca-screening-tools/epi-suite-estimation-program-interface> to calculate octanol-water partitioning coefficients – K_{ow} s) for nine chemicals and compared them to actual lab and field measured aquatic toxicity values from the USEPA's ECOTOX Database (<https://cfpub.epa.gov/ecotox/>) and used the data sets to find the 5th percentile of values. The 5th percentile of values, protective of 95% of the species surveyed, is sometimes used to create regulatory criteria (Barron et al., 2012). Barron compared the values from ECOSAR and ECOTOX and found the following over- and under-estimations of toxicity (see Table 3 and Figure 3 from Barron et al., 2012):
 - Endrin - overestimate by 81x
 - Malathion - overestimate by 22x
 - Pentachlorophenol - overestimate by 5.3x
 - Benzene - overestimate by 1.5x
 - Carbaryl - underestimate by 1.2x
 - 4-Nitrophenol - underestimate by 1.7x
 - Phenol - underestimate by 2.9x
 - Ethylbenzene - underestimate by 3.3x
 - Permethrin - underestimate by 4.5x
- Melnikov et al., (2016) compared ECOSAR versus four other models to calculate acute toxicity of 83 organic chemicals to fish. To truly test the predictive ability of these models, they used chemicals that were not part of the dataset used to derive the QSARs. ECOSAR was the second most accurate model (out of five models tested). ECOSAR's total accuracy was 61%. The authors state that at least part of the reason for this is that even in 2016, 18 years after the model was released, some QSARs were still "based on as few as 2 data points".
- He et al., (2019) compared 10 other models to ECOSAR to compare their predictive ability for pesticide toxicity to daphnids. ECOSAR performed more poorly than the other 10 models.

- Khan et al., (2019) developed QSARs for toxicity to fish for several classes of organic compounds (aldehydes, amides, esters, phenols etc.). In every case, in the training data and the test data, their QSARs outperformed ECOSAR (see Table 2 of that study).
- Massarsky et al., (2022) compared measured and ECOSAR-predicted LC50s for polyfluorinated chemicals. For perfluorooctanoic acid they found that ECOSAR underestimated measured toxicity by 2-84x for fish, underestimated measured toxicity by 16x-108x for daphnids, and underestimated toxicity by 10x for mysids. ECOSAR underestimated toxicity of perfluorooctanesulfonic acid by 1.3-3x for fish and by 1.7x for mysids. Polyfluorinated chemicals are of relatively recent interest to the scientific community and the ECOSAR predictive capabilities are not fully modeled.

The Future of ECOSAR

The continuous improvement of ECOSAR is still in process. Wang et al., (2022) used machine learning algorithms to create a better model for rotifer NOECs. Xu et al., (2022) surveyed nearly two thousand chemicals using machine learning and deep learning to build predictive toxicity models that could be incorporated into ECOSAR. Shavaliyeva et al., (2022) developed an automated literature search program to extract potential data for the development of QSARs and then released the source code for other interested parties. While ECOSAR is an irreplaceable tool to find chemicals in need of further testing, it is still far from perfect. The USEPA Region 4 does not provide their ECOSAR output for the chemicals in their soil criteria based on ECOSAR output. The strength of the toxicity values that depend on that output is unknown and should be treated as a substantial uncertainty.

References

- Barron, M. G., Jackson, C. R., & Awkerman, J. A. (2012). Evaluation of in silico development of aquatic toxicity species sensitivity distributions. *Aquatic Toxicology*, 116–117, 1–7. <https://doi.org/10.1016/j.aquatox.2012.02.006>
- Bermúdez-Saldaña, J. M., Escuder-Gilabert, L., Medina-Hernández, M. J., Villanueva-Camañas, R. M., & Sagrado, S. (2005). Chromatographic evaluation of the toxicity in fish of pesticides. *Journal of Chromatography B*, 814(1), 115–125. <https://doi.org/10.1016/j.jchromb.2004.10.007>
- Cronin, M. T. D., Walker, J. D., Jaworska, J. S., Comber, M. H. I., Watts, C. D., & Worth, A. P. (2003). Use of QSARs in international decision-making frameworks to predict ecologic effects and environmental fate of chemical substances. *Environmental Health Perspectives*, 111(10), 1376–1390. <https://doi.org/10.1289/ehp.5759>
- de Haas, E. M., Eikelboom, T., & Bouwman, T. (2011). Internal and external validation of the long-term QSARs for neutral organics to fish from ECOSARTM. *SAR and QSAR in Environmental Research*, 22(5–6), 545–559. <https://doi.org/10.1080/1062936X.2011.569949>
- Dom, N., Knapen, D., Benoot, D., Nobels, I., & Blust, R. (2010). Aquatic multi-species acute toxicity of (chlorinated) anilines: Experimental versus predicted data. *Chemosphere*, 81(2), 177–186. <https://doi.org/10.1016/j.chemosphere.2010.06.059>

- He, L., Xiao, K., Zhou, C., Li, G., Yang, H., Li, Z., & Cheng, J. (2019). Insights into pesticide toxicity against aquatic organism: QSTR models on *Daphnia Magna*. *Ecotoxicology and Environmental Safety*, 173, 285–292. <https://doi.org/10.1016/j.ecoenv.2019.02.014>
- Hulzebos, E. M., & Posthumus, R. (2003). (Q)SAR: gatekeepers against risk on chemicals? SAR and QSAR in Environmental Research, 14(4), 285–316. <https://doi.org/10.1080/1062936032000101510>
- Kaiser, K. L. E., Dearden, J. C., Klein, W., & Schultz, T. W. (1999). Short Communication: A Note of Caution to Users of ECOSAR. *Water Quality Research Journal*, 34(1), 179–182. <https://doi.org/10.2166/wqrj.1999.006>
- Khan, K., Baderna, D., Cappelli, C., Toma, C., Lombardo, A., Roy, K., & Benfenati, E. (2019). Ecotoxicological QSAR modeling of organic compounds against fish: Application of fragment based descriptors in feature analysis. *Aquatic Toxicology*, 212, 162–174. <https://doi.org/10.1016/j.aquatox.2019.05.011>
- Massarsky, A., Donnell, M. T., de Gandiaga, E., Kozal, J. S., Garnick, L., Kubitz, J. A., Bartell, S. M., & Monnot, A. D. (2022). Critical evaluation of ECOSAR and E-FAST platforms to predict ecological risks of PFAS. *Environmental Advances*, 8, 100221. <https://doi.org/10.1016/j.envadv.2022.100221>
- Melnikov, F., Kostal, J., Voutchkova-Kostal, A., Zimmerman, J. B., & T. Anastas, P. (2016). Assessment of predictive models for estimating the acute aquatic toxicity of organic chemicals. *Green Chemistry*, 18(16), 4432–4445. <https://doi.org/10.1039/C6GC00720A>
- Reuschenbach, P., Silvani, M., Dammann, M., Warnecke, D., & Knacker, T. (2008). ECOSAR model performance with a large test set of industrial chemicals. *Chemosphere*, 71(10), 1986–1995. <https://doi.org/10.1016/j.chemosphere.2007.12.006>
- Sanderson, H. (2003). Probabilistic hazard assessment of environmentally occurring pharmaceuticals toxicity to fish, daphnids and algae by ECOSAR screening. *Toxicology Letters*, 144(3), 383–395. [https://doi.org/10.1016/S0378-4274\(03\)00257-1](https://doi.org/10.1016/S0378-4274(03)00257-1)
- Shavaliyeva, G., Papadokonstantakis, S., & Peters, G. (2022). Prior Knowledge for Predictive Modeling: The Case of Acute Aquatic Toxicity. *Journal of Chemical Information and Modeling*, 62(17), 4018–4031. <https://doi.org/10.1021/acs.jcim.1c01079>
- Tunkel, J., Mayo, K., Austin, C., Hickerson, A., & Howard, P. (2005). Practical Considerations on the Use of Predictive Models for Regulatory Purposes. *Environmental Science & Technology*, 39(7), 2188–2199. <https://doi.org/10.1021/es049220t>
- Wang, X., Li, F., Chen, J., Teng, Y., Ji, C., & Wu, H. (2022). Critical features identification for chemical chronic toxicity based on mechanistic forecast models. *Environmental Pollution*, 307, 119584. <https://doi.org/10.1016/j.envpol.2022.119584>
- Xu, M., Yang, H., Liu, G., Tang, Y., & Li, W. (2022). In silico prediction of chemical aquatic toxicity by multiple machine learning and deep learning approaches. *Journal of Applied Toxicology*, 42(11), 1766–1776. <https://doi.org/10.1002/jat.4354>