ECF-100DR1-11-0006
Revision 1

Ecological Risk Evaluation for the 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Units

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

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Approved for Public Release;
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Environmental Calculation Cover Page

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Project: 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Units RI/FS Date: 10/15/12

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1	Addition of new waste sites	6/27/11	Tables; pages 5 and 6
2	Addition of new waste sites. Incorporation of RL comments. Updated plant/invert. PRGs	9/21/11	All
3	Addition of Total U Isotopes and RAD SOF, HI and Drinking water ingestion tables and text	2/9/12	All
4	Removed two waste sites from the dataset and re-ran EPCs.	6/10/12	Tables; pages 9 - 11
5	Addition of new waste sites. Updated wildlife PRGs for 5 metals.	10/5/12	All

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1 Purpose

This Environmental Calculation for the 100-D/H OUs documents the following:

- Calculation of Hazard Quotients (HQs), Sum of Fractions (SOFs), and Hazard Indexes (HIs) for the evaluation of risk to ecological receptors (plants, soil invertebrates, and wildlife) from radionuclides and chemical constituents in the upper 4.6 m (15 ft) of the upland area soils; and,
- Evaluation of the site-relatedness of constituents based on the comparison of site concentrations to non-site-impacted background concentrations for radionuclides and chemical constituents with HQs, SOFs, or HIs ≥ 1.

The HQ, SOF, HI, and background comparisons presented in this Environmental Calculation are intended for use in the Ecological Risk Assessment (ERA) being prepared for the 100-D/H OUs of the Hanford Site. That ERA completes both a screening and Preliminary Remediation Goal (PRG) evaluation; the results of the ERA will be used to evaluate the ecological risk remaining following remediation and to provide information for risk managers to consider when deciding if additional remediation is necessary with respect to ecological risks for the 100-D/H OUs.

HQs are intended to characterize the potential for risk to the specified receptors from exposure to contaminants via the evaluated exposure pathways. HQs are the ratios of the estimated site-specific exposures to a constituent compared to the estimated exposure levels at which no adverse health effects are likely to occur. Because the dose from radionuclides is additive, the combined effects from two or more radionuclides are calculated as ratios of the estimated total site-specific exposures to effect levels using the SOF method. The dose from polychlorinated biphenyls (Aroclors) is also additive; therefore, the total contributions of Aroclors were also calculated using the HI method. For constituents indicating a potential risk (HQ, SOF, or HI ≥ 1) for at least one ecological receptor (and for which background values were available), additional comparisons to background were conducted to determine if the concentrations of those constituents are elevated above those in non-site-impacted areas. Risks are not considered to be site-related in the ERA if onsite concentrations do not exceed those concentrations present as background. Background concentrations were not available for organic constituents.

The risk characterization process described in this document is consistent with *Ecological Risk Assessment Guidance for Superfund: Process for Designing and Conducting Ecological Risk Assessments, Interim Final* (EPA 540-R-97-006). The HQs, SOFs, HIs, and background comparison outcomes presented in this Environmental Calculation are not intended to be final risk outcomes; it will be revised as needed to incorporate updates to the risk characterization process and/or underlying values used to calculate risks that occur during the Remedial Investigation/Feasibility Study (RI/FS) process for the 100-D/H OUs.

The risk characterization process presented in this document is intended for use in evaluating risks for waste sites located in upland habitats. Except for the evaluation of wildlife drinking from seeps in the riparian habitat (as described below), it is not intended for evaluating riparian or near-shore areas of the River Corridor, as these have been defined in the *River Corridor Baseline Risk Assessment Volume 1: Ecological Risk Assessment* (DOE/RL-2007-21, Rev 0).

2 Methodology

The HQs, SOFs, HIs, and background comparisons are based on the evaluation of risk to ecological receptors as described in Section 1. The following sections describe the steps used to develop the HQs, SOFs, and HIs (Section 2.1), the approach for comparing site to background concentrations (Section 2.2),

the approach for developing the PRG HQs (Section 2.3), and the approach for estimating wildlife exposure to chemicals and radionuclides received by drinking from seeps in the 100-D/H OUs (Section 2.4).

2.1 Screening HQ, SOF, and HI Calculations

Risks at the 100-D/H OUs were evaluated based on the ratio of Exposure Point Concentrations (EPCs) to SSLs (defined below), resulting in HQs, and are described by the following equation:

$$HQ = EPC/SSL$$

where:

HQ	=	ecological hazard quotient (unitless)
EPC	=	soil concentration (µg/kg for non-radionuclides and pCi/g for radionuclides)
SSL	=	soil screening level (µg/kg for non-radionuclides and pCi/g for radionuclides)

Once the HQ was calculated, the SOF for radionuclides or the HI for Aroclors was calculated for a decision unit as follows:

$$\text{SOF or HI} = \sum_{j=1}^{n} \text{Exposure}_j / \text{SSL}_j$$

where:

SOF = Sum of Fractions

HI = Hazard Index

Exposure_j = exposure concentration for individual radionuclides or Aroclors

SSL_j = soil screening level for individual radionuclides or Aroclors

HQ, HI, or SOF values less than 1.0 indicate that adverse effects associated with exposure to a given constituent are unlikely (EPA/540-R-97-006). These constituents were not considered to represent a risk and were excluded from further evaluation in the ERA. An HQ, SOF, or HI $\geq$ 1.0 indicates a potential for risk, but does not indicate that a risk is actually present. Constituents with an HQ $\geq$ 1.0 for at least one ecological receptor (plant, invertebrate, bird, or mammal) were further evaluated, as discussed in Section 2.2, to determine if the detected concentrations also exceed background. As noted above, background concentrations were not available for organic constituents, so this evaluation was not completed for Aroclors or other organics.

Tables 1 and 2 identify the soil decision units that were designated for each waste site in the 100-D and 100-H OUs. Table 3 defines the area and depth sampled within each soil decision unit and describes the sampling design used, the soil depth decision units evaluated in the ERA, and constituents for which EPCs were calculated. These decision units included overburden (backfill), staging pile area (0 to 15 bgs), staging pile area-footprint (0 to 15 bgs), staging pile area-focused (0 to 15 bgs), aging pile area-footprint-focused (0 to 15 bgs),shallow (0 to 15 ft bgs), and shallow-focused (0 to 15 ft bgs). All focused samples were collected using the focused study design. Samples collected greater than 15 ft bgs (deep and deep_focused) were excluded in the ERA.

The EPC represents the Upper Confidence Limit (UCL) of the arithmetic mean concentration of the analyzed constituent for each decision unit within the footprint of each remediated waste site. A detailed description of the process used to calculate the EPCs and the resulting EPC values for t the 100-D/H OUs are provided in the *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1 and 100-HR-2 Source Operable Units* (ECF-100DR-11-0004).

The soil EPCs (including metals, pesticides, PAHs, and Aroclors) for each evaluated waste site and decision unit were compared to the following SSLs for each receptor group selected for evaluation in the ERA:

- Terrestrial Plants and Soil Invertebrates - The overall lowest of the available plant and soil invertebrate values in *Tier 1 Risk Based Concentrations for the Protection of Ecological Receptors at the Hanford Site* (CHPRC-00784, found in Appendix H of *Remedial Investigation/ Feasibility Study for the 100-KR1, 100-KR-2, and 100-KR4 Operable Units* (DOE/RL-2010-97) were used as the SSLs for this calculation.
- Avian and Mammalian Wildlife - The overall lowest of the avian and mammalian lowest observed adverse effect level (LOAEL)-based values in *Tier 1 Risk-Based Soil Concentrations Protective of Ecological Receptors at the Hanford Site* (CHPRC-00784, found in Appendix H of DOE/RL-2010-97) were used as the SSLs for this calculation.

Because the plant/invertebrate and/or wildlife SSL values for 10 COPCs (arsenic, boron, lithium, mercury, manganese, molybdenum, selenium, strontium, thallium, and uranium) were higher than the corresponding PRG values, these COPCs were reviewed to confirm they were below both the SSL and the PRG. Any of these 10 COPCs greater than either the SSL or the PRG were carried forward to the background evaluation.

2.2 Background Concentration Comparison

The soil EPCs for inorganics with an HQ $\geq$ 1.0 (Section 2.1) were compared to the lognormal 90th percentile background concentrations for the Hanford Site. No SOFs or HIs were greater than or equal to 1.0, so individual radionuclides were not carried into the background evaluation for the 100-D/H Source OUs. Background concentrations are not available for organic chemicals, so organics were not evaluated in the background comparison. For inorganic constituents in soil at the Hanford Site, background concentrations are described in *Hanford Site Background, Part 1, Soil Background for Nonradioactive Analytes* (DOE/RL-92-24). That document provides the 90th percentile background concentrations for several inorganic constituents. For selected inorganic constituents not included in *Hanford Site Background, Part 1, Soil Background for Nonradioactive Analytes* (DOE/RL-92-24), the 90th percentile concentrations were obtained from Ecology (Ecology Publication 94-115, *Natural Background Soil Metals Concentrations in Washington State*) or *Soil Background for Interim Use at the Hanford Site* (ECF-Hanford-11-038), and from *Remedial Design Report/Remedial Action Work Plan for the 100 Area* (DOE/RL-96-17) for uranium.

Constituents with EPCs meeting or exceeding SSLs (i.e., HQ $\geq$ 1.0) but with EPCs that did not exceed the 90th percentile background concentration were not considered to represent a site-related risk and were excluded from further evaluation. Constituents with EPCs meeting or exceeding SSLs and with EPCs greater than the 90th percentile background concentrations were further considered in the PRG evaluation.

2.3 PRG HQ Calculation

Chemical-decision-unit combinations with EPCs meeting or exceeding the SSLs and with EPCs greater than the 90th percentile background concentrations at the 100-D/H OUs were further evaluated based on the ratio of EPCs to PRGs, resulting in HQs, as described by the following equation:

$$HQ = EPC/PRG$$

where:

HQ	=	ecological hazard quotient (unitless)
EPC	=	soil concentration (µg/kg for non-radionuclides)
PRG	=	preliminary remediation goal (µg/kg for non-radionuclides)

As described in Section 2.1, the EPC represents the 95% UCL of the arithmetic mean concentration of the analyzed constituent for each decision unit within the footprint of each remediated waste site. The soil EPCs for each evaluated waste site and decision unit were compared to PRGs for each receptor group with EPCs exceeding SSLs and background.

The primary difference between the SSL and PRG comparisons for wildlife is the use of bioaccumulation factors based on the foodchain present at the Hanford site (e.g., arthropods in soil) for the calculation of the PRG, and the incorporation of Hanford-specific tissue data in the models. Development of the PRGs for birds and mammals focused on the integration of available Hanford-specific bioaccumulation data for plants, terrestrial arthropods, and small mammals with data from existing bioaccumulation models to more accurately reflect site-specific conditions and the potential exposure of wildlife to chemicals from the ingestion of prey at this Site. Details of the calculations of the avian and mammalian PRGs are found in *Tier 2 Risk Based Concentrations for the Protection of Ecological Receptors at the Hanford Site* (CHPRC-01311). As with SSLs, the PRGs selected are based on LOAELs.

PRGs for the evaluation of potential impacts to terrestrial plants and soil invertebrates are primarily no observed effect concentrations (NOECs) from the RCBRA Report (DOE/RL-2007-21, Rev. 0), *Ecological Soil Screening Levels for Arsenic and Lead in the Tacoma Smelter Plume Footprint and Hanford Site Old Orchards* (Ecology Publication-11-003-006), and a recent study in 2011 as presented in ECF Hanford-11-0158 (*Tier 2 Terrestrial Plant and Invertebrate Preliminary Remediation Goals (PRGs) for Nonradionuclides for Use at the Hanford Site*).

2.4 Freshwater Seeps Drinking Water and HQ Calculations

The estimates of exposure from drinking water ingestion by wildlife include the use of a simplified model whereby the rate of ingestion is standardized to the body weight of the receptor on a per kilogram basis. The simplified allometric scaling equations presented in "Scaling of Osmotic Regulation in Mammals and Birds" (Calder and Braun, 1983) were used to estimate the number of liters consumed per kilogram body weight per day. These rates of ingestion were then multiplied by the concentration of chemicals to calculate the total dose from the drinking water pathway as shown below:

$$\text{Dose} = [\text{Water} \times \text{DWIR}] \times \text{AUF}$$

where:

Dose	=	drinking water exposure (mg/kg body weight/day)
Water	=	chemical concentration in seep (mg/L)
DWIR	=	drinking water ingestion rate (L/kg body weight/day)

AUF = area use factor (area of site/home range of receptor) (unitless)

Drinking water ingestion was estimated for several species of birds and mammals expected to occur in the 100-D/H riparian areas along the Columbia River, with the initial assumption that they reside at the site and fulfill their drinking water requirements exclusively from the seeps, but only for nine months of the year as the river stage is elevated from mid-April to mid-July making the seeps inaccessible. Therefore, an AUF of 0.75 was employed for all species except bats. For bats, an AUF of 0.5 was used since bats use a combination of hibernating and seeking alternative sources of emergent insects during the winter months (WDFW, 2012, *Living with Wildlife: Bats*).

Estimates are not included for rodents (i.e., deer mouse, grasshopper mouse, and pocket mouse) because they maintain water balance through excreting concentrated urine, obtaining water from food and water generated during metabolism (Verts and Kirkland, 1988, "*Perognathus parvus*").

Assuming that wildlife meet their daily drinking water requirements from the seeps, instead of a more readily available source such as the river, is a conservative approach meant to evaluate a worst-case scenario. Therefore, though it represents an overestimate, the 95% UCL of the arithmetic mean concentration of the analyzed constituent (as described in Section 2.1) was employed as the EPC as a conservative estimate of exposure. While filtered water data are used in evaluations of the effects on aquatic receptors (because those are the concentrations that are bioavailable), unfiltered concentrations are more appropriate for drinking water (because bioavailability may change within the digestive tract). Both were included to be comprehensive, as in rare cases filtered measurements can be higher than unfiltered. Results of filtered concentration and unfiltered concentration data were evaluated separately. When both filtered and unfiltered concentrations were measured in the same sampling location and event they were not pooled because doing so would overestimate the exposure concentration.

HQs for inorganics were estimated as the ratio of estimated ingestion doses to toxicological reference values (TRVs). The TRVs employed were the same as those used to develop the wildlife PRGs used to evaluate soil as presented in *Tier 1 Risk-Based Concentrations for the Protection of Ecological Receptors at the Hanford Site* (CHPRC-00784) and *Tier 2 Risk-Based Concentrations for the Protection of Ecological Receptors at the Hanford Site* (CHPRC-01311).

$$HQ = Dose/TRV$$

where:

HQ = ecological hazard quotient (unitless)

Dose = drinking water exposure (mg/kg body weight/day)

TRV = toxicological reference value (mg/kg-body weight-day)

For radionuclides, the HQs were simply a ratio of the measured concentrations in water to the biota concentration guides (BCGs) for wildlife. The lowest water BCGs of terrestrial or riparian animal receptors were taken from the DOE's *A Graded Approach for Evaluating Radiation Doses to Aquatic and terrestrial Biota* (DOE-STD-1153-2002) or were calculated using *RESRAD-BIOTA: A Tool for Implementing a Graded Approach to Biota Dose Evaluation, User's Guide, Version 1* (DOE/EH-0676) when not available. SOFs were calculated as described in Section 2.1. Also as described in Section 2.1, the EPC represents the 95% UCL of the arithmetic mean concentration of the analyzed constituent.

$$HQ = (EPC*AUF) / BCG$$

where:

HQ = ecological hazard quotient (unitless)

EPC = radionuclide concentration in seep (pCi/L)

AUF = area use factor (unitless)

BCG = biota concentration guides (pCi/L)

3 Assumptions and Inputs

The following sections provide the input values for the HQ calculations (Sections 3.1, 3.2, 3.4, and 3.5) and comparison to background concentrations (Section 3.3).

3.1 EPC Concentrations

Site and decision unit EPCs (described in Section 2.1) for surface soil used to calculate HQs, SOFs, and HIs are shown in Tables 4 and 5 for the 100-D and 100-H OUs, respectively.

3.2 Soil Screening Levels (SSLs)

Available SSLs (described in Section 2.1) used to calculate the HQs, SOFs, and HIs are included in Table 4 and Table 5 for the 100-D and 100-H OU waste sites, respectively.

3.3 Background Concentrations

Background concentrations (described in Section 2.2) for soil used to evaluate exceedances of background are provided in Table 6 for the 100-D OU waste sites and Table 7 for the 100-H OU waste sites. The results of the comparisons are then summarized in Tables 8 and 9 for the 100-D and 100-H OU waste sites, respectively.

3.4 PRG Evaluation

PRGs (described in Section 2.3) used to calculate the HQs for chemicals with EPCs that exceeded both SSLs and background are provided in Table 10 and Table 11 for the 100-D and 100-H OU waste sites, respectively, and results are summarized in Tables 12 and 13.

3.5 Freshwater Seeps Drinking Water Evaluation

EPCs of seep data for inorganics used to calculate drinking water ingestion HQs are found in Tables 14 and 15 and those for radionuclides in seeps are found in Table 16. TRVs for inorganics are provided in Tables 14 and 15, while BCGs are provided in Table 16. Body weights and allometric scaling-based drinking water ingestion rates are provided in Tables 14 and 15.

4 Software Applications

All supporting calculations were performed on electronic spreadsheets using Microsoft Excel. Electronic versions of all spreadsheets are provided with calculations included to facilitate comparison with hand calculations and checking of logical or lookup functions. This approach meets the requirements for "Single Use Software" as described in *CHPRC Environmental Calculation Preparation and Issue* (PRC-PRO-EP-40205).

5 Calculation

5.1 Screening HQ, SOF, HI, and PRG HQ Calculations

HQs were calculated by comparing EPC concentrations to SSLs and PRGs using Microsoft Excel spreadsheets. EPCs were compared to SSLs and PRGs for terrestrial plants or soil invertebrates (the lower of the two) and for avian or mammalian wildlife (similarly, the lower of the two). The SOFs for radionuclides were calculated for a decision unit by summing the individual HQs for each radionuclide within that decision unit. The HIs for Aroclors were similarly calculated for a decision unit by summing the individual HQs for each Aroclor within that decision unit. The results of these calculations are presented in Tables 4 and 5 for the SSL comparison.

5.2 Background Concentration Comparison

Site concentrations were compared to background by comparing EPC concentrations to background concentrations using Microsoft Excel spreadsheets. EPCs were compared only for constituents with SSL-based HQs $\geq$ 1.0. The results of these calculations are presented in Table 6 for the 100-D OU and Table 7 for the 100-H OU.

5.3 Freshwater Seeps Drinking Water Evaluation

EPCs of chemicals in seeps were used to estimate a worst case scenario of potential wildlife exposure to chemicals in seep water based on the assumption that wildlife use seeps as an exclusive source of drinking water when the wildlife are present on site and seeps are available. However, area use factors were employed that account for the fact that many of the receptors are not present year round due to migration or hibernation, and the seeps themselves are not "available" year round such as when the river stage is high. Results are presented in Tables 14 and 15 for inorganics. For radionuclides, EPCs of radioactivity were compared to BCGs to evaluate the potential dose of radioactivity received through drinking seep water. Results are presented in Table 16.

6 Results/Conclusions

Comparisons of EPCs for inorganic and organic chemicals and radionuclides in soil to SSLs are shown in Table 4 for 100-D and Table 5 for 100-H. For those chemicals with EPC HQs > 1, comparisons to background are shown in Table 6 for 100-D and Table 7 for 100-H. Table 8 provides a summary of the chemicals exceeding the SSLs (plant/invertebrate and/or wildlife) or both the SSLs and background for 100-D, and the summary for 100-H is presented in Table 9. The SOFs for radionuclides were less than 1 for all waste sites and therefore were not carried forward for background evaluation. Similarly, HIs for Aroclors did not exceed 1, so they were not carried forward. Arsenic, barium, boron, cadmium, chromium, copper, lead, lithium, mercury, molybdenum, selenium, silver, uranium, vanadium, zinc, and total U isotopes were detected with EPCs greater than the SSL and outside of the range of background, so these COPECs were carried forward for additional evaluation.

Comparisons of EPCs to PRGs for the chemicals carried forward are shown in Table 10 for 100-D and Table 11 for 100-H, and results are summarized in Table 12 for 100-D and Table 13 for 100-H.

The inorganic chemicals barium, boron, copper, lithium, mercury, molybdenum, selenium, silver, and vanadium were detected at concentrations exceeding one or both groups of PRGs (plants/invertebrates, wildlife) in one or more of the following 100-D OU waste sites:

- 100-D-28:1_Shallow: Mercury, Selenium
- 100-D-31:5_Overburden: Selenium
- 100-D-31:5_Shallow: Selenium
- 100-D-31:6_Overburden: Mercury
- 100-D-31:6_Shallow: Mercury
- 100-D-31:8_Shallow_Focused_1: Vanadium
- 100-D-31:8_Shallow_Focused_2: Barium, Boron, Molybdenum
- 100-D-42, 100-D-43, 100-D-45_Shallow: Copper
- 100-D-47_Shallow_Focused: Vanadium
- 100-D-56:1_Overburden: Selenium
- 100-D-56:1_Shallow: Selenium
- 100-D-7_Staging pile area footprint: Mercury
- 100-D-70_Shallow_Focused: Copper
- 100-D-83:4_Shallow_Focused: Mercury
- 100-D-84:1_Shallow_Focused: Vanadium
- 100-D-88_Shallow_Focused: Vanadium
- 100-D-94_Shallow_Focused: Mercury
- 116-DR-8_Shallow: Lithium
- 118-D-4_Shallow_Focused: Vanadium
- 118-D-6:4_Shallow_2: Mercury
- 132-D-1_Shallow: Mercury
- 1607-D2-2_Shallow: Mercury, Silver
- 1607-D5_Shallow: Barium, Boron

The inorganic chemicals barium, boron, chromium, lead, mercury, and molybdenum were detected at concentrations exceeding one or both groups of PRGs (plants/invertebrates, birds/mammals) and background in one or more of the following 100-H OU waste sites:

- 100-H-28:1_Shallow_Focused: Barium, Boron
- 100-H-4_Shallow: Mercury
- 100-H-53_Shallow_Focused: Molybdenum
- 100-H-8_Shallow_Focused: Mercury
- 118-H-6:5_Shallow_1: Lead
- 128-H-1_Overburden: Lead
- 128-H-1_Shallow_4: Mercury
- 1607-H2_Shallow: Chromium, Mercury
- 600-151_Shallow_2: Lead
- 600-151_Shallow_3: Lead

Comparison of EPCs for seeps along the 100-D and 100-H riparian area to TRVs resulted in HQs of less than 0.01 for all chemicals except aluminum and nitrate at 100-D and nitrate at 100-H. In all cases, HQs were below 0.05 (Tables 14 and 15). Results indicate that no further evaluation of inorganics in drinking water is warranted. The same conclusion is reached even when considering the drinking ingestion in combination with total ingestion from terrestrial pathways, as presented below:

Aluminum - For aluminum, the dose from ingestion of prey and soil is not significant in terrestrial environments with soil pH greater than 5.5 as the aluminum is bound and unavailable for biological

uptake (OSWER Directive 9285.7-60, *Ecological Soil Screening Level for Aluminum: Interim Final*). Hence, for wildlife residing in the circumneutral soils of the 100-D and 100-H Source OUs, drinking water ingestion by wildlife represents the primary contribution to the total dose of aluminum and even for mammals yielded an HQ less than 0.1 (Tables 4 and 5) under the worst case scenario, even for the more susceptible bats.

Nitrate - While the drinking water ingestion dose at 100-D yielded a HQ of 0.013 for bats, dietary ingestion shown in Table 4 for 100-D is below 0.001 for all waste sites. Thus, dietary ingestion of nitrate would be insignificant relative to drinking water ingestion from seeps and total exposure from the combined prey ingestion and drinking water ingestion would not be at a level of concern. Similarly, the drinking water ingestion dose at 100-H yielded HQs of 0.26 for elk, 0.36 for badgers, and 0.47 for bats, and the dietary ingestion shown in Table 5 for 100-D is below 0.0001 for all waste sites. Dietary ingestion of nitrate would be insignificant relative to drinking water ingestion from seeps and total exposure from the combined prey ingestion and drinking water ingestion would not be at a level of concern. Thus, with the HQs being below 1 under a worst-case scenario and with more available and uncontaminated sources of drinking water available (e.g., the Columbia River), it is concluded there is no unacceptable risk and exposure to nitrate through drinking seep water does not warrant further evaluation.

Comparison of seep EPCs to BCGs showed that all radionuclide concentrations in seep water are below levels of concern. The total SOF for wildlife drinking seep water from 100-D was 0.037. With the maximum SOF from terrestrial soil pathways from any waste site within the 100-D Source OUs being 0.04 (Table 4), there is no additional risk for wildlife exposure to radionuclides from drinking at seeps at 100-D. Similarly, the total drinking water ingestion SOF for 100-H seep water was 0.11. Combined with a worst case SOF from terrestrial soil pathways of 0.23 within 100-H waste sites (Table 5), there is no risk for wildlife exposure to radionuclides from drinking seep water at 100-H.

6.1 Supporting Information

The backup information supporting these calculations is provided in the following files:

Microsoft Excel workbook "100-DH_AreaEcoRiskCalcBriefTables.xlsx" containing:

- Table 1. Waste Sites and Decision Units for the 100-D OU
- Table 2. Waste Sites and Decision Units for the 100-H OU
- Table 3. Summary of Decision Unit Soil Reaches
- Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6m]) Concentrations to Lowest SSLs
- Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6m]) Concentrations to Lowest SSLs
- Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background
- Table 7. Comparison of Chemicals Exceeding SSLs in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

- Table 8. Summary of Chemicals in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background
- Table 9. Summary of Chemicals in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background
- Table 10. Ecological PRG Comparisons for 100-D OU Waste Site Decision Units
- Table 11. Ecological PRG Comparisons for 100-H OU Waste Site Decision Units
- Table 12. Summary of 100-D OU Waste Sites Ecological Evaluation Based on PRGs for Surface Soils (0 to 15 feet [0 to 4.6m])
- Table 13. Summary of 100-H OU Waste Sites Ecological Evaluation Based on PRGs for Surface Soils (0 to 15 feet [0 to 4.6m])
- Table 14. Wildlife Exposure to Inorganic Chemicals through Drinking from Seeps in the 100-D Riparian Area
- Table 15. Wildlife Exposure to Inorganic Chemicals through Drinking from Seeps in the 100-H Riparian Area
- Table 16. Wildlife Exposure to Radionuclides through Drinking from Seeps in the 100-D and 100-H Riparian Area

7 References

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Table 1. Waste Sites and Decision Units for the 100-D OU	
Waste Site	**Decision Unit**
100-D-1	Shallow
100-D-12	Shallow
100-D-13	Shallow_Focused
100-D-15	Shallow_1
	Shallow_2
100-D-18	Deep
100-D-19	Deep_Focused
100-D-2	Shallow_Focused
100-D-20	Shallow
100-D-21	Shallow
100-D-22	Shallow
100-D-24	Shallow_Focused
100-D-28:1	Overburden
	Shallow
	Staging Pile Area Footprint
100-D-29	Overburden
	Shallow
	Shallow_Focused
100-D-3	Shallow_Focused
100-D-31:1, 100-D-31:2	Overburden
	Shallow
100-D-31:10	Overburden
	Shallow
	Shallow_Focused
100-D-31:3	Shallow
100-D-31:3, 100-D-31:4	Overburden
100-D-31:4	Shallow
	Shallow_Focused
100-D-31:5	Overburden
	Shallow
100-D-31:6	Overburden
	Shallow
100-D-31:7	Overburden
	Shallow
	Shallow_Focused
100-D-31:8	Overburden
	Shallow
	Shallow_Focused_1
	Shallow_Focused_2
100-D-31:9	Overburden
	Shallow
100-D-32	Overburden
	Shallow
100-D-4	Overburden
	Shallow
100-D-42, 100-D-43, 100-D-45	Overburden
	Shallow
	Shallow_Focused
100-D-47	Overburden
	Shallow
	Shallow_Focused
100-D-48:1	Deep
	Shallow
100-D-48:2	Deep
	Overburden
	Shallow
100-D-48:3	Deep
	Overburden
	Shallow
100-D-48:4	Shallow

Table 1. Waste Sites and Decision Units for the 100-D OU	
Waste Site	**Decision Unit**
100-D-49:2	Deep
	Shallow
100-D-49:3	Shallow_Focused
100-D-49:4	Deep
	Shallow
100-D-50:5	Shallow_Focused
100-D-52	Shallow
100-D-56:1	Overburden
	Shallow
	Shallow_Focused
100-D-56:2	Overburden_4
	Overburden_5
	Overburden_Focused_1
	Overburden_Focused_2
	Shallow_1
	Shallow_2
	Shallow_3
	Shallow_Focused
	Staging pile area footprint_focused
100-D-61	Shallow
100-D-7	Shallow_1
	Shallow_2
	Shallow_Focused
	Staging pile area footprint
100-D-70	Shallow_Focused
100-D-74	Shallow_Focused
100-D-75:3	Shallow_Focused
100-D-80:1	Shallow_Focused
100-D-82	Shallow_Focused
100-D-83:4	Shallow_Focused
100-D-84:1	Shallow_Focused
100-D-85:1	Shallow_Focused
100-D-87	Shallow_Focused
100-D-88	Shallow_Focused
100-D-9	Shallow_Focused
100-D-90	Shallow_Focused
100-D-94	Shallow_Focused
116-D-10	Shallow
	Staging Pile Area
116-D-1A	Deep
	Shallow
116-D-2	Shallow
116-D-4	Shallow
116-D-5	Deep
	Overburden
	Shallow
	Staging pile area footprint
116-D-6	Deep
116-D-7	Deep
	Shallow
116-D-8	Shallow
	Shallow_Focused_1
	Shallow_Focused_2
116-D-9	Shallow
116-DR-1 & 2	Deep
	Shallow
116-DR-10	Overburden
	Shallow
	Shallow_Focused
116-DR-4	Shallow

Table 1. Waste Sites and Decision Units for the 100-D OU	
Waste Site	**Decision Unit**
116-DR-5	Overburden
	Shallow
	Shallow_Focused
	Staging Pile Area
116-DR-6	Deep
	Shallow
116-DR-7	Shallow
116-DR-8	Overburden_2
	Overburden_3
	Shallow
116-DR-9	Deep
	Shallow
118-D-1	Deep
	Overburden
	Shallow_1
	Shallow_5
	Shallow_Focused
	Staging pile area footprint
118-D-4	Overburden
	Shallow
	Shallow_Focused
118-D-5	Overburden
	Shallow
	Shallow_Focused
118-D-6:4	Deep
	Deep_Focused
	Shallow_1
	Shallow_2
118-DR-1	Shallow
	Shallow_Focused
118-DR-2:2	Deep
	Shallow
120-D-2	Shallow
	Shallow_Focused
122-DR-1:2	Deep
	Shallow
126-D-2	Overburden
	Shallow
	Shallow_Focused
128-D-2	Shallow_1
	Shallow_2
130-D-1	Shallow
	Shallow_Focused
	Staging pile area footprint
132-D-1	Shallow
	Staging pile are footprint
1607-D1	Shallow_1
	Shallow_2
	Shallow_Focused
	Staging pile area footprint
1607-D2:1	Shallow
1607-D2:2	Shallow
1607-D2:3	Overburden
	Shallow
1607-D2:4	Shallow
1607-D4	Shallow_Focused
1607-D5	Shallow
600-30	Shallow_1
	Shallow_2
	Shallow_3

Table 1. Waste Sites and Decision Units for the 100-D OU	
Waste Site	**Decision Unit**
	Shallow_Focused
628-3	Shallow
	Staging Pile Area_2
	Staging Pile Area_3
	Staging Pile Area_Focused
UPR-100-D-5	Overburden
	Shallow
	Shallow_Focused
100-D-23	See 122-DR-1:2
100-D-53	
100-D-54	
100-D-64	
100-D-25	See 116-DR-9
100-D-46	See 116-D-1A
116-D-1B	
100-D-49:1	See 100-D-48:1
UPR-100-D-4	
UPR-100-D-2	See 100-D-48:2
UPR-100-D-3	
100-D-5	See 100-D-48:3
100-D-6	

Table 2. Waste Sites and Decision Units for the 100-H OU	
Waste Site	**Decision Unit**
100-H-17	Shallow
100-H-21	Deep
	Overburden
	Shallow
100-H-24	Shallow
100-H-28:1	Shallow_Focused
100-H-28:6	Shallow_Focused
100-H-3	Shallow
100-H-35	Shallow_Focused_2
	Shallow_Focused_1
	Shallow_Focused_3
100-H-37	Shallow_Focused
100-H-4	Shallow
	Shallow_Focused
100-H-40	Shallow_Focused
100-H-41	Shallow_Focused
100-H-45	Shallow_Focused
100-H-49:2	Shallow_Focused
100-H-5	Deep
	Shallow
100-H-50	Shallow_Focused
100-H-51:4	Shallow_Focused
100-H-51:5	Shallow_Focused
100-H-53	Shallow_Focused
100-H-7	Shallow_Focused
100-H-8	Shallow_Focused
116-H-1	Deep
	Shallow
116-H-3	Deep
	Shallow
116-H-5	Deep
	Overburden
	Shallow
	Staging pile area footprint
116-H-7	Deep
	Overburden
	Shallow
116-H-9	Shallow
118-H-1:1	Overburden
	Shallow_1
	Shallow_2
	Shallow_Focused
	Staging pile area footprint
118-H-1:2	Shallow
	Shallow_Focused
118-H-2	Shallow
118-H-3	Shallow_1
	Shallow_2
	Shallow_Focused
118-H-4	Shallow
	Shallow_Focused
	Staging Pile Area
118-H-5	Shallow
	Shallow_Focused
118-H-6:2,:3,:6, 100-H-9,10,11,12,13,14,31	Deep_2
	Deep_3
	Deep_4
	Deep_Focused_1
	Deep_Focused_2

Table 2. Waste Sites and Decision Units for the 100-H OU

Waste Site	Decision Unit
118-H-6:4	Overburden
	Shallow
118-H-6:5	Shallow_1
	Shallow_2
	Shallow_3
	Shallow_Focused
128-H-1	Overburden
	Shallow_3
	Shallow_4
	Shallow_5
	Staging pile area footprint_2
	Staging pile area footprint_6
128-H-2	Shallow_Focused
128-H-3	Shallow_Focused
1607-H1	Shallow
	Overburden
	Shallow_Focused
1607-H2	Deep_Focused
	Overburden
	Shallow
	Shallow_Focused
1607-H3	Overburden
	Shallow_1
	Shallow_2
1607-H4	Shallow
600-151	Shallow_1
	Shallow_2
	Shallow_3
600-152	Shallow
	Shallow_Focused
100-H-1	See 100-H-21
100-H-22	
100-H-2	See 100-H-17
100-H-30	
116-H-2	

Note: 100-H-9, 100-H-10, 100-H-13, 100-H-31, and 118-H-6:2 are considered "consolidated waste sites" with 100-H-11, 100-H-12, 100-H-14, 118-H-6:3, and 118-H-6:6

Table 3. Summary of Decision Unit Soil Reaches

Decision Unit Name	Depth	Sampling Design Description
Shallow	0 to 4.6 m (15 ft) bgs	Samples collected using a statistical sampling design
Deep	Greater than 4.6 m (15 ft) bgs	
Overburden	Not applicable	
Staging Pile Area	Not applicable	
Staging pile Area_Focused	Not applicable	Samples collected using a focused sampling design
Deep_Focused	Greater than 4.6 m (15 ft) bgs	
Staging pile Area_Footprint	Not applicable	
Staging Pile Area Footprint_focused	Not applicable	
Shallow_Focused	0 to 4.6 m (15 ft) bgs	

Notes:
bgs = below ground surface
ft = feet
m = meters

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,027	1.0E+04	2.0E-01	1.9E+05	1.1E-02
100-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,985	3.3E+05	2.1E-01	1.3E+06	5.1E-02
100-D-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	1.0E+04	2.0E-02	1.4E+04	1.5E-02
100-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,100	5.0E+02	**4.2E+00**	1.3E+05	1.6E-02
100-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.079	2.2E+03	3.6E-05	9.2E+02	8.5E-05
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,135	4.0E+02	**2.5E+01**	3.8E+04	2.7E-01
100-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,617	1.3E+04	6.6E-01	1.1E+05	7.7E-02
100-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,107	5.0E+04	4.0E-01	1.1E+05	1.9E-01
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	No Value	--	1.3E+06	3.4E-04
100-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,961	5.0E+04	7.9E-02	3.6E+04	1.1E-01
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,021	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.3	1.0E+02	7.3E-02	1.9E+03	3.9E-03
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	No Value	--	1.7E+05	8.6E-06
100-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	350	2.0E+03	1.8E-01	1.4E+04	2.5E-02
100-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,343	3.0E+04	3.8E-01	3.3E+04	3.5E-01
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	1.8E+04	9.4E-04	6.0E+05	2.8E-05
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	2.0E+05	6.1E-02	3.6E+08	3.4E-05
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	No Value	--	No Value	--
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,051	2.0E+03	**3.2E+01**	3.1E+04	**2.0E+00**
100-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,845	5.0E+04	8.8E-01	6.8E+04	6.5E-01
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.66	No Value	--	8.8E+02	7.5E-04
100-D-13_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	1.0E+04	3.1E-01	1.9E+05	1.6E-02
100-D-13_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,600	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-13_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,000	1.0E+04	1.0E-01	1.4E+04	7.2E-02
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	1.0E+05	7.4E-04	4.5E+04	1.6E-03
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	5.0E+02	**9.8E+00**	1.3E+05	3.7E-02
100-D-13_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	66	4.0E+03	1.7E-02	1.6E+03	4.1E-02
100-D-13_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.20	2.2E+03	9.1E-05	9.2E+02	2.2E-04
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	4.0E+02	**2.7E+01**	3.8E+04	2.9E-01
100-D-13_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	1.3E+04	5.4E-01	1.1E+05	6.3E-02
100-D-13_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	ug/kg	3.0	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	No Value	--	2.3E+06	6.1E-04
100-D-13_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,300	5.0E+04	1.3E-01	3.6E+04	1.8E-01
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	1.0E+02	1.4E-01	1.9E+03	7.5E-03
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	2.0E+03	3.4E-01	1.4E+04	4.9E-02
100-D-13_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-13_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	27,500	No Value	--	3.4E+08	8.1E-05
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	3.0E+04	7.3E-04	1.5E+06	1.5E-05
100-D-13_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	1.0E-04	--	2.7E-04
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	5.2E+02	**1.7E+00**	1.9E+03	4.7E-01
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	No Value	--	No Value	--
100-D-13_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1,500	5.0E+03	3.0E-01	7.9E+05	1.9E-03
100-D-13_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.097	5.2E+04	1.9E-06	6.4E+03	1.5E-05
100-D-13_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.18	1.6E+04	1.2E-05	5.2E+03	3.6E-05
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	5.0E+04	**2.4E+00**	6.8E+04	**1.8E+00**
100-D-15_Shallow_1	non-Rad	Aroclor HI	---	ug/kg	--	--	4.0E-04	--	1.1E-02
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	4.0E+04	1.8E-04	1.5E+03	5.0E-03
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	4.0E+04	2.1E-04	1.5E+03	5.8E-03
100-D-15_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3199.4	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-15_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64052.5	3.3E+05	1.9E-01	1.3E+06	4.8E-02
100-D-15_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	190.7	1.0E+04	1.9E-02	1.4E+04	1.4E-02
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1510.1	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
100-D-15_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	61.8	4.0E+03	1.5E-02	1.6E+03	3.8E-02
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11800.9	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-15_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6697.7	1.3E+04	5.2E-01	1.1E+05	6.0E-02
100-D-15_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12272.7	5.0E+04	2.5E-01	1.1E+05	1.2E-01
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130.0	No Value	--	1.3E+06	1.0E-04
100-D-15_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4546.4	5.0E+04	9.1E-02	3.6E+04	1.3E-01
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	277857.0	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29.3	1.0E+02	2.9E-01	1.9E+03	1.6E-02
100-D-15_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	379.7	2.0E+03	1.9E-01	1.4E+04	2.7E-02
100-D-15_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10447.0	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8272.1	No Value	--	No Value	--
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	54073.2	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
100-D-15_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	39833.1	5.0E+04	8.0E-01	6.8E+04	5.9E-01
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	No Value	--	No Value	--
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	No Value	--	4.0E+02	1.4E-02
100-D-15_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4025.4	1.0E+04	4.0E-01	1.9E+05	2.1E-02
100-D-15_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	84308.9	3.3E+05	2.6E-01	1.3E+06	6.4E-02
100-D-15_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	269.7	1.0E+04	2.7E-02	1.4E+04	1.9E-02
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427.0	1.0E+05	4.3E-03	4.5E+04	9.4E-03
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1652.4	5.0E+02	**3.3E+00**	1.3E+05	1.2E-02
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965.0	4.0E+03	2.4E-01	1.6E+03	5.9E-01
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	14486.3	4.0E+02	**3.6E+01**	3.8E+04	3.8E-01
100-D-15_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7880.0	1.3E+04	6.1E-01	1.1E+05	7.1E-02
100-D-15_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	20641.1	5.0E+04	4.1E-01	1.1E+05	1.9E-01
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172.7	No Value	--	1.3E+06	1.4E-04
100-D-15_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7174.8	5.0E+04	1.4E-01	3.6E+04	2.0E-01
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	326394.5	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	24.5	1.0E+02	2.5E-01	1.9E+03	1.3E-02
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553.4	2.0E+03	2.8E-01	1.4E+04	4.0E-02
100-D-15_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	13099.5	3.0E+04	4.4E-01	3.3E+04	4.0E-01
100-D-15_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	477.0	5.2E+02	9.2E-01	1.9E+03	2.5E-01
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32560.0	No Value	--	No Value	--
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	60475.2	2.0E+03	**3.0E+01**	3.1E+04	**1.9E+00**
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92810.1	5.0E+04	**1.9E+00**	6.8E+04	**1.4E+00**
100-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2100.0	1.0E+04	2.1E-01	1.9E+05	1.1E-02
100-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65000.0	3.3E+05	2.0E-01	1.3E+06	4.9E-02
100-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	190.0	1.0E+04	1.9E-02	1.4E+04	1.4E-02
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3300.0	5.0E+02	**6.6E+00**	1.3E+05	2.5E-02
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7300.0	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7000.0	1.3E+04	5.4E-01	1.1E+05	6.3E-02
100-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14500.0	5.0E+04	2.9E-01	1.1E+05	1.4E-01
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410.0	No Value	--	1.3E+06	3.3E-04
100-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8900.0	5.0E+04	1.8E-01	3.6E+04	2.5E-01
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	4700.0	2.0E+03	**2.4E+00**	5.2E+05	9.1E-03
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294000.0	2.2E+05	**1.3E+00**	5.8E+06	5.1E-02
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920.0	2.0E+03	4.6E-01	1.4E+04	6.6E-02
100-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11800.0	3.0E+04	3.9E-01	3.3E+04	3.6E-01
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24600.0	No Value	--	4.2E+06	5.8E-03
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2400.0	5.0E+04	4.8E-02	2.0E+05	1.2E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	50100.0	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	51300.0	5.0E+04	**1.0E+00**	6.8E+04	7.6E-01
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.2	2.2E+04	9.5E-06	4.8E+03	4.2E-05
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	2.2E+03	6.7E-04	9.2E+02	1.6E-03
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	1.2E-05	8.1E+02	9.0E-05
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.6	1.5E+04	3.8E-05	1.7E+03	3.2E-04
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	3.2E-06	6.3E+03	6.5E-06
100-D-20_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2563.0	5.0E+03	5.1E-01	7.9E+05	3.3E-03
100-D-20_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.8	5.2E+04	1.5E-05	6.4E+03	1.2E-04
100-D-20_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.3E-06	4.4E+03	8.2E-06
100-D-20_Shallow	Rad	Uranium-238	U-238	pCi/g	0.9	1.6E+04	5.5E-05	5.2E+03	1.7E-04
100-D-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.0	2.2E+03	1.3E-05	9.2E+02	3.0E-05
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.1	2.2E+04	2.7E-06	4.8E+03	1.2E-05
100-D-22_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	9.1E-05	9.2E+02	2.2E-04
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.0	6.1E+03	5.5E-06	8.1E+02	4.2E-05
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.4	1.5E+04	2.5E-05	1.7E+03	2.2E-04
100-D-22_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7200.0	5.0E+04	1.4E-01	3.6E+04	2.0E-01
100-D-22_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.6E-04	--	4.0E-03
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	8.5E-05	9.1E+01	3.3E-03
100-D-22_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2500.4	5.0E+03	5.0E-01	7.9E+05	3.2E-03
100-D-22_Shallow	Rad	Uranium-238	U-238	pCi/g	0.8	1.6E+04	5.4E-05	5.2E+03	1.6E-04
100-D-24_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2300.0	1.0E+04	2.3E-01	1.9E+05	1.2E-02
100-D-24_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60300.0	3.3E+05	1.8E-01	1.3E+06	4.6E-02
100-D-24_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	271.0	1.0E+04	2.7E-02	1.4E+04	1.9E-02
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	57.5	1.0E+05	5.8E-04	4.5E+04	1.3E-03
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1900.0	5.0E+02	**3.8E+00**	1.3E+05	1.4E-02
100-D-24_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	201.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6200.0	4.0E+02	**1.6E+01**	3.8E+04	1.6E-01
100-D-24_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7600.0	1.3E+04	5.9E-01	1.1E+05	6.8E-02
100-D-24_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15300.0	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	21.5	No Value	--	No Value	--
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243.0	No Value	--	1.3E+06	2.0E-04
100-D-24_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4100.0	5.0E+04	8.2E-02	3.6E+04	1.2E-01
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295000.0	2.2E+05	**1.3E+00**	5.8E+06	5.1E-02
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65.0	1.0E+02	6.5E-01	1.9E+03	3.5E-02
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	No Value	--	1.7E+05	4.3E-05
100-D-24_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	466.0	2.0E+03	2.3E-01	1.4E+04	3.3E-02
100-D-24_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9800.0	3.0E+04	3.3E-01	3.3E+04	3.0E-01
100-D-24_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	5.3E-05	--	2.2E-04
100-D-24_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1955.8	5.0E+03	3.9E-01	7.9E+05	2.5E-03
100-D-24_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	8.9E-05
100-D-24_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.2E-05	5.2E+03	1.3E-04
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48700.0	2.0E+03	**2.4E+01**	3.1E+04	**1.6E+00**
100-D-24_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	41600.0	5.0E+04	8.3E-01	6.8E+04	6.1E-01
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32.4	2.9E+04	1.1E-03	6.8E+05	4.8E-05
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	615.7	5.0E+03	1.2E-01	6.0E+03	1.0E-01
100-D-28:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2242.0	1.0E+04	2.2E-01	1.9E+05	1.2E-02
100-D-28:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57527.2	3.3E+05	1.7E-01	1.3E+06	4.4E-02
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	878.9	1.8E+04	4.9E-02	6.4E+04	1.4E-02
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	126.8	1.8E+04	7.1E-03	7.6E+04	1.7E-03
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165.3	1.8E+04	9.2E-03	3.9E+04	4.2E-03
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80.2	1.8E+04	4.5E-03	3.9E+04	2.1E-03
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1041.7	5.0E+02	**2.1E+00**	1.3E+05	7.8E-03
100-D-28:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	72.9	4.0E+03	1.8E-02	1.6E+03	4.5E-02
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76.0	No Value	--	No Value	--
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9398.8	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559.5	1.8E+04	3.1E-02	4.5E+04	1.3E-02
100-D-28:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7750.8	1.3E+04	6.0E-01	1.1E+05	7.0E-02
100-D-28:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14726.5	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48.0	1.8E+04	2.7E-03	4.4E+04	1.1E-03
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	373.8	1.8E+04	2.1E-02	8.4E+05	4.5E-04
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284.0	No Value	--	1.3E+06	2.3E-04
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	95.5	1.8E+04	5.3E-03	3.6E+04	2.7E-03
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13258.4	5.0E+04	2.7E-01	3.6E+04	3.7E-01
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	283916.8	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	78.5	1.0E+02	7.9E-01	1.9E+03	4.2E-02
100-D-28:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	330.0	2.0E+03	1.7E-01	1.4E+04	2.4E-02
100-D-28:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10387.1	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	826.6	1.8E+04	4.6E-02	6.0E+05	1.4E-03
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	54468.6	2.0E+03	**2.7E+01**	3.1E+04	**1.8E+00**
100-D-28:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42796.3	5.0E+04	8.6E-01	6.8E+04	6.3E-01
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45.0	2.0E+04	2.3E-03	1.1E+06	4.1E-05
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110.0	2.9E+04	3.8E-03	6.8E+05	1.6E-04
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380.0	5.0E+03	7.6E-02	6.0E+03	6.4E-02
100-D-28:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2257.6	1.0E+04	2.3E-01	1.9E+05	1.2E-02
100-D-28:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63401.8	3.3E+05	1.9E-01	1.3E+06	4.8E-02
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32.0	1.8E+04	1.8E-03	6.4E+04	5.0E-04
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47.3	1.8E+04	2.6E-03	7.6E+04	6.2E-04
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	38.8	1.8E+04	2.2E-03	3.9E+04	9.9E-04
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20.0	1.8E+04	1.1E-03	3.9E+04	5.1E-04
100-D-28:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	90.0	1.0E+04	9.0E-03	1.4E+04	6.5E-03
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160.0	1.0E+05	1.6E-03	4.5E+04	3.5E-03
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1300.0	5.0E+02	**2.6E+00**	1.3E+05	9.8E-03
100-D-28:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	129.9	4.0E+03	3.3E-02	1.6E+03	8.0E-02
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120.0	No Value	--	No Value	--
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9867.5	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47.2	1.8E+04	2.6E-03	4.5E+04	1.1E-03
100-D-28:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8100.7	1.3E+04	6.2E-01	1.1E+05	7.3E-02
100-D-28:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15361.6	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43.0	No Value	--	No Value	--
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30.3	1.8E+04	1.7E-03	8.4E+05	3.6E-05
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50.0	2.9E+04	1.7E-03	1.8E+05	2.9E-04
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203.4	No Value	--	1.3E+06	1.6E-04
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35.8	1.8E+04	2.0E-03	3.6E+04	1.0E-03
100-D-28:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7143.9	5.0E+04	1.4E-01	3.6E+04	2.0E-01
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305115.9	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572.0	1.0E+02	**5.7E+00**	1.9E+03	3.1E-01
100-D-28:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	410.0	2.0E+03	2.1E-01	1.4E+04	2.9E-02
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46.0	2.9E+04	1.6E-03	1.0E+05	4.6E-04
100-D-28:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11863.6	3.0E+04	4.0E-01	3.3E+04	3.6E-01
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28.0	3.0E+04	9.3E-04	1.5E+06	1.9E-05
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	90.7	1.8E+04	5.0E-03	6.0E+05	1.5E-04
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1700.0	5.2E+02	**3.3E+00**	1.9E+03	9.0E-01
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54614.5	2.0E+03	**2.7E+01**	3.1E+04	**1.8E+00**
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59413.7	5.0E+04	**1.2E+00**	6.8E+04	8.8E-01
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.0	No Value	--	8.8E+02	1.1E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.5	No Value	--	No Value	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	4.0E+04	8.3E-05	1.5E+03	2.2E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2591.5	1.0E+04	2.6E-01	1.9E+05	1.4E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	63110.5	3.3E+05	1.9E-01	1.3E+06	4.8E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12.0	1.8E+04	6.7E-04	6.4E+04	1.9E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21.0	1.8E+04	1.2E-03	7.6E+04	2.8E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	19.5	1.8E+04	1.1E-03	3.9E+04	5.0E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16.0	1.8E+04	8.9E-04	3.9E+04	4.1E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	44.0	1.0E+04	4.4E-03	1.4E+04	3.2E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1500.0	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	79.3	4.0E+03	2.0E-02	1.6E+03	4.9E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8532.4	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48.0	1.8E+04	2.7E-03	4.5E+04	1.1E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8475.4	1.3E+04	6.5E-01	1.1E+05	7.6E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	15936.7	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	27.6	1.8E+04	1.5E-03	8.4E+05	3.3E-05
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236.6	No Value	--	1.3E+06	1.9E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41.0	1.8E+04	2.3E-03	3.6E+04	1.2E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4779.8	5.0E+04	9.6E-02	3.6E+04	1.3E-01
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	290097.6	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	8.4	1.0E+02	8.5E-02	1.9E+03	4.5E-03
100-D-28:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340.0	2.0E+03	1.7E-01	1.4E+04	2.4E-02
100-D-28:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10461.6	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100.0	1.8E+04	5.6E-03	6.0E+05	1.7E-04
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43439.3	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
100-D-28:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38595.5	5.0E+04	7.7E-01	6.8E+04	5.7E-01
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686.3	5.0E+03	1.4E-01	6.0E+03	1.2E-01
100-D-29_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2301.9	1.0E+04	2.3E-01	1.9E+05	1.2E-02
100-D-29_Overburden	non-Rad	Barium	7440-39-3	ug/kg	62795.9	3.3E+05	1.9E-01	1.3E+06	4.8E-02
100-D-29_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	355.9	1.0E+04	3.6E-02	1.4E+04	2.6E-02
100-D-29_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1128.1	5.0E+02	**2.3E+00**	1.3E+05	8.5E-03
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7050.3	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-29_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7730.9	1.3E+04	6.0E-01	1.1E+05	6.9E-02
100-D-29_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2763.0	5.0E+04	5.5E-02	3.6E+04	7.8E-02
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	297023.2	2.2E+05	**1.4E+00**	5.8E+06	5.1E-02
100-D-29_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.4	1.0E+02	7.4E-02	1.9E+03	4.0E-03
100-D-29_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	260.0	2.0E+03	1.3E-01	1.4E+04	1.9E-02
100-D-29_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9804.0	3.0E+04	3.3E-01	3.3E+04	3.0E-01
100-D-29_Overburden	Rad	Rads SOF	---	pCi/g	--	--	5.3E-05	--	1.7E-03
100-D-29_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.1	3.6E+03	4.0E-05	9.1E+01	1.6E-03
100-D-29_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	493.5	5.0E+03	9.9E-02	7.9E+05	6.3E-04
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	8.6E-09	4.2E+02	3.5E-05
100-D-29_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	2.9E-06	6.4E+03	2.4E-05
100-D-29_Overburden	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.1E-05	5.2E+03	3.2E-05
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65107.4	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-29_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42896.7	5.0E+04	8.6E-01	6.8E+04	6.3E-01
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	617.8	5.0E+03	1.2E-01	6.0E+03	1.0E-01
100-D-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2842.9	1.0E+04	2.8E-01	1.9E+05	1.5E-02
100-D-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67886.6	3.3E+05	2.1E-01	1.3E+06	5.1E-02
100-D-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	240.0	1.0E+04	2.4E-02	1.4E+04	1.7E-02
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5333.3	5.0E+02	**1.1E+01**	1.3E+05	4.0E-02
100-D-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	49.3	4.0E+03	1.2E-02	1.6E+03	3.0E-02
100-D-29_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.8E-05	9.2E+02	9.0E-05
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8317.4	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
100-D-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7282.2	1.3E+04	5.6E-01	1.1E+05	6.5E-02
100-D-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3051.2	5.0E+04	6.1E-02	3.6E+04	8.6E-02
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	292330.0	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-D-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10.0	1.0E+02	1.0E-01	1.9E+03	5.4E-03
100-D-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	290.0	2.0E+03	1.5E-01	1.4E+04	2.1E-02
100-D-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9776.7	3.0E+04	3.3E-01	3.3E+04	3.0E-01
100-D-29_Shallow	Rad	Rads SOF	---	pCi/g	--	--	6.2E-05	--	2.3E-04
100-D-29_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	853.4	5.0E+03	1.7E-01	7.9E+05	1.1E-03
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	8.0E-09	4.2E+02	3.2E-05
100-D-29_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.3	5.2E+04	5.1E-06	6.4E+03	4.1E-05
100-D-29_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.0E-06	4.4E+03	6.5E-06
100-D-29_Shallow	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.8E-05	5.2E+03	5.6E-05
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60568.6	2.0E+03	**3.0E+01**	3.1E+04	**2.0E+00**
100-D-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40906.0	5.0E+04	8.2E-01	6.8E+04	6.0E-01
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400.0	5.0E+03	8.0E-02	6.0E+03	6.7E-02
100-D-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2300.0	1.0E+04	2.3E-01	1.9E+05	1.2E-02
100-D-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	49000.0	3.3E+05	1.5E-01	1.3E+06	3.7E-02
100-D-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270.0	1.0E+04	2.7E-02	1.4E+04	1.9E-02
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8200.0	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
100-D-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5800.0	1.3E+04	4.5E-01	1.1E+05	5.2E-02
100-D-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2300.0	5.0E+04	4.6E-02	3.6E+04	6.5E-02
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	270000.0	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
100-D-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8600.0	3.0E+04	2.9E-01	3.3E+04	2.6E-01
100-D-29_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	7.7E-06	--	1.1E-04
100-D-29_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	286.7	5.0E+03	5.7E-02	7.9E+05	3.7E-04
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	2.0E-08	4.2E+02	8.0E-05
100-D-29_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	1.6E-06	6.4E+03	1.3E-05
100-D-29_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.1	1.6E+04	6.1E-06	5.2E+03	1.9E-05
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44000.0	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
100-D-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33000.0	5.0E+04	6.6E-01	6.8E+04	4.9E-01
100-D-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	5.7E-05	9.2E+02	1.4E-04
100-D-3_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	6.1E-05	--	1.6E-04
100-D-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	50.4	5.0E+03	1.0E-02	7.9E+05	6.4E-05
100-D-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	4.0E-06	4.4E+03	2.5E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	4.0E+04	2.5E-04	1.5E+03	6.7E-03
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2952.7	1.0E+04	3.0E-01	1.9E+05	1.6E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	76789.1	3.3E+05	2.3E-01	1.3E+06	5.8E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	1.8E+04	8.3E-05	6.4E+04	2.3E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	1.8E+04	6.5E-05	7.6E+04	1.5E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	1.8E+04	1.3E-04	3.9E+04	6.1E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	1.8E+04	6.5E-05	3.9E+04	3.0E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	215.4	1.0E+04	2.2E-02	1.4E+04	1.5E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2017.6	5.0E+02	**4.0E+00**	1.3E+05	1.5E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	81.8	4.0E+03	2.1E-02	1.6E+03	5.0E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8844.4	4.0E+02	**2.2E+01**	3.8E+04	2.3E-01
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	1.8E+04	9.3E-05	4.5E+04	3.8E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7970.7	1.3E+04	6.1E-01	1.1E+05	7.2E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15457.9	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	1.8E+04	2.6E-04	8.4E+05	5.5E-06
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900.0	No Value	--	2.3E+06	4.0E-04
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	1.8E+04	1.6E-04	3.6E+04	8.0E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3626.0	5.0E+04	7.3E-02	3.6E+04	1.0E-01
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318306.2	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	13.0	1.0E+02	1.3E-01	1.9E+03	7.0E-03
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	No Value	--	1.7E+05	2.0E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	386.4	2.0E+03	1.9E-01	1.4E+04	2.8E-02
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10376.9	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	4032.1	No Value	--	3.4E+08	1.2E-05
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710.1	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	1.8E+04	3.2E-04	6.0E+05	9.5E-06
100-D-31:1, 100-D-31:2_Overburden	Rad	Rads SOF	---	pCi/g	--	--	5.0E-05	--	2.2E-04
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9120.0	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1756.5	5.0E+03	3.5E-01	7.9E+05	2.2E-03
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.7	5.2E+04	1.3E-05	6.4E+03	1.0E-04
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.7E-05	5.2E+03	1.1E-04
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58650.3	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44390.5	5.0E+04	8.9E-01	6.8E+04	6.6E-01
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18.2	2.0E+04	9.1E-04	1.1E+06	1.7E-05
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	2.9E+04	1.1E-04	6.8E+05	4.5E-06
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659.2	5.0E+03	1.3E-01	6.0E+03	1.1E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor HI	---	ug/kg	--	--	6.8E-04	--	1.8E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15.9	4.0E+04	4.0E-04	1.5E+03	1.1E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11.1	4.0E+04	2.8E-04	1.5E+03	7.5E-03
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2936.3	1.0E+04	2.9E-01	1.9E+05	1.6E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	81895.8	3.3E+05	2.5E-01	1.3E+06	6.2E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	1.8E+04	5.0E-04	6.4E+04	1.4E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	1.8E+04	5.5E-04	7.6E+04	1.3E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12.2	1.8E+04	6.8E-04	3.9E+04	3.1E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	1.8E+04	4.6E-04	3.9E+04	2.1E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	222.5	1.0E+04	2.2E-02	1.4E+04	1.6E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2139.5	5.0E+02	**4.3E+00**	1.3E+05	1.6E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	95.3	4.0E+03	2.4E-02	1.6E+03	5.9E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9619.5	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	1.8E+04	4.9E-04	4.5E+04	2.0E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9241.2	1.3E+04	7.1E-01	1.1E+05	8.3E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17019.0	5.0E+04	3.4E-01	1.1E+05	1.6E-01
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	1.8E+04	1.3E-04	4.4E+04	5.4E-05
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31.3	1.8E+04	1.7E-03	8.4E+05	3.7E-05
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	2.9E+04	1.1E-04	1.8E+05	1.9E-05
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	204.7	No Value	--	1.3E+06	1.6E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16.7	1.8E+04	9.3E-04	3.6E+04	4.7E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4509.6	5.0E+04	9.0E-02	3.6E+04	1.3E-01
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	350952.0	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10.0	1.0E+02	1.0E-01	1.9E+03	5.4E-03
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	No Value	--	1.7E+05	2.4E-05
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	451.2	2.0E+03	2.3E-01	1.4E+04	3.2E-02
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10623.0	3.0E+04	3.5E-01	3.3E+04	3.3E-01
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	45529.9	No Value	--	3.4E+08	1.3E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1800.0	No Value	--	3.4E+08	5.3E-06
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8616.5	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10.5	1.8E+04	5.8E-04	6.0E+05	1.8E-05
100-D-31:1, 100-D-31:2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	5.2E-05	--	2.2E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174.1	2.0E+03	8.7E-02	5.0E+04	3.5E-03
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	22431.7	No Value	--	No Value	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1861.2	5.0E+03	3.7E-01	7.9E+05	2.4E-03
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	1.0E-04
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	4.0E-05	5.2E+03	1.2E-04
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69961.0	2.0E+03	**3.5E+01**	3.1E+04	**2.3E+00**
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50885.8	5.0E+04	**1.0E+00**	6.8E+04	7.5E-01
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.5	No Value	--	4.0E+02	1.2E-03
100-D-31:10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2617.8	1.0E+04	2.6E-01	1.9E+05	1.4E-02
100-D-31:10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	67626.4	3.3E+05	2.1E-01	1.3E+06	5.1E-02
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103.2	1.0E+05	1.0E-03	4.5E+04	2.3E-03
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1283.3	5.0E+02	**2.6E+00**	1.3E+05	9.7E-03
100-D-31:10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	99.4	4.0E+03	2.5E-02	1.6E+03	6.1E-02
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7761.7	4.0E+02	**1.9E+01**	3.8E+04	2.0E-01
100-D-31:10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7309.1	1.3E+04	5.6E-01	1.1E+05	6.6E-02
100-D-31:10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15562.6	5.0E+04	3.1E-01	1.1E+05	1.5E-01
100-D-31:10_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1218.6	No Value	--	2.3E+06	5.3E-04
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	411.9	No Value	--	1.3E+06	3.3E-04
100-D-31:10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3692.2	5.0E+04	7.4E-02	3.6E+04	1.0E-01
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	289762.7	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15.8	1.0E+02	1.6E-01	1.9E+03	8.5E-03
100-D-31:10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	290.0	2.0E+03	1.5E-01	1.4E+04	2.1E-02
100-D-31:10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9988.2	3.0E+04	3.3E-01	3.3E+04	3.1E-01
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20.0	No Value	--	No Value	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1040.4	No Value	--	No Value	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400.0	No Value	--	No Value	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880.0	No Value	--	No Value	--
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29.0	3.0E+04	9.7E-04	1.5E+06	1.9E-05
100-D-31:10_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.2E-04	--	4.0E-03
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.4	3.6E+03	1.0E-04	9.1E+01	3.9E-03
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1977.6	2.0E+05	9.9E-03	3.6E+08	5.6E-06
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5361.2	No Value	--	No Value	--
100-D-31:10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	712.9	5.0E+03	1.4E-01	7.9E+05	9.1E-04
100-D-31:10_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	4.6E-06	6.4E+03	3.7E-05
100-D-31:10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.6E-05	5.2E+03	4.9E-05
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	41549.4	2.0E+03	**2.1E+01**	3.1E+04	**1.3E+00**
100-D-31:10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	36532.3	5.0E+04	7.3E-01	6.8E+04	5.4E-01
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	No Value	--	4.0E+02	5.5E-03
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	No Value	--	8.8E+02	1.6E-03
100-D-31:10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2720.5	1.0E+04	2.7E-01	1.9E+05	1.4E-02
100-D-31:10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60424.4	3.3E+05	1.8E-01	1.3E+06	4.6E-02
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91.7	1.0E+05	9.2E-04	4.5E+04	2.0E-03
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1400.0	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
100-D-31:10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	162.1	4.0E+03	4.1E-02	1.6E+03	9.9E-02
100-D-31:10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.1E-05	9.2E+02	7.4E-05
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7199.1	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-31:10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9426.3	1.3E+04	7.3E-01	1.1E+05	8.5E-02
100-D-31:10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16569.8	5.0E+04	3.3E-01	1.1E+05	1.6E-01
100-D-31:10_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1476.3	No Value	--	2.3E+06	6.5E-04
100-D-31:10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3201.2	5.0E+04	6.4E-02	3.6E+04	9.0E-02
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	310284.5	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
100-D-31:10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.4	1.0E+02	9.4E-02	1.9E+03	5.1E-03
100-D-31:10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	250.0	2.0E+03	1.3E-01	1.4E+04	1.8E-02
100-D-31:10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9326.4	3.0E+04	3.1E-01	3.3E+04	2.9E-01
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7582.3	No Value	--	No Value	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13545.2	No Value	--	No Value	--
100-D-31:10_Shallow	Rad	Rads SOF	---	pCi/g	--	--	4.7E-05	--	1.4E-04
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1000.0	2.0E+05	5.0E-03	3.6E+08	2.8E-06
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5700.0	No Value	--	No Value	--
100-D-31:10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	587.7	5.0E+03	1.2E-01	7.9E+05	7.5E-04
100-D-31:10_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.5E-06	6.4E+03	2.9E-05
100-D-31:10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.3E-05	5.2E+03	4.0E-05
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65877.0	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-31:10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45509.8	5.0E+04	9.1E-01	6.8E+04	6.7E-01
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.7	No Value	--	4.0E+02	1.8E-03
100-D-31:10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2500.0	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-31:10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64600.0	3.3E+05	2.0E-01	1.3E+06	4.9E-02
100-D-31:10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	33.0	1.0E+04	3.3E-03	1.4E+04	2.4E-03
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91.0	1.0E+05	9.1E-04	4.5E+04	2.0E-03
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1800.0	5.0E+02	**3.6E+00**	1.3E+05	1.4E-02
100-D-31:10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	180.0	4.0E+03	4.5E-02	1.6E+03	1.1E-01
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6900.0	4.0E+02	**1.7E+01**	3.8E+04	1.8E-01
100-D-31:10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9200.0	1.3E+04	7.1E-01	1.1E+05	8.3E-02
100-D-31:10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15300.0	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-31:10_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1400.0	No Value	--	2.3E+06	6.1E-04
100-D-31:10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3800.0	5.0E+04	7.6E-02	3.6E+04	1.1E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318000.0	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
100-D-31:10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.8	1.0E+02	5.8E-02	1.9E+03	3.1E-03
100-D-31:10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9300.0	3.0E+04	3.1E-01	3.3E+04	2.9E-01
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1200.0	No Value	--	No Value	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1500.0	No Value	--	No Value	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2300.0	2.0E+05	1.2E-02	3.6E+08	6.5E-06
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5600.0	No Value	--	No Value	--
100-D-31:10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1866.4	5.0E+03	3.7E-01	7.9E+05	2.4E-03
100-D-31:10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	4.0E-05	5.2E+03	1.2E-04
100-D-31:10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58300.0	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
100-D-31:10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47800.0	5.0E+04	9.6E-01	6.8E+04	7.1E-01
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29.0	No Value	--	4.0E+02	7.3E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	No Value	--	8.8E+02	6.4E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100.0	2.0E+04	5.0E-03	1.1E+06	9.1E-05
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200.0	2.9E+04	6.9E-03	6.8E+05	3.0E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1854.7	1.0E+04	1.9E-01	1.9E+05	9.8E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66352.3	3.3E+05	2.0E-01	1.3E+06	5.0E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	158.9	1.8E+04	8.8E-03	6.4E+04	2.5E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114.0	1.8E+04	6.3E-03	7.6E+04	1.5E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79.1	1.8E+04	4.4E-03	3.9E+04	2.0E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48.0	1.8E+04	2.7E-03	3.9E+04	1.2E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120.3	1.0E+04	1.2E-02	1.4E+04	8.6E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94.3	1.0E+05	9.4E-04	4.5E+04	2.1E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1300.0	5.0E+02	**2.6E+00**	1.3E+05	9.8E-03
100-D-31:3, 100-D-31:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	6.8E-05	9.2E+02	1.6E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7300.8	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83.0	1.8E+04	4.6E-03	4.5E+04	1.9E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9490.6	1.3E+04	7.3E-01	1.1E+05	8.5E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18617.4	5.0E+04	3.7E-01	1.1E+05	1.7E-01
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	181.6	1.8E+04	1.0E-02	8.4E+05	2.2E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59.0	2.9E+04	2.0E-03	1.8E+05	3.4E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1000.0	No Value	--	2.3E+06	4.4E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177.0	No Value	--	1.3E+06	1.4E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	200.6	1.8E+04	1.1E-02	3.6E+04	5.6E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3373.6	5.0E+04	6.8E-02	3.6E+04	9.5E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318256.9	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15.3	1.0E+02	1.5E-01	1.9E+03	8.2E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	No Value	--	1.7E+05	7.8E-06
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480.0	2.0E+03	2.4E-01	1.4E+04	3.4E-02
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47.0	2.9E+04	1.6E-03	1.0E+05	4.7E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9701.7	3.0E+04	3.2E-01	3.3E+04	3.0E-01
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	617.5	No Value	--	No Value	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410.0	No Value	--	No Value	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590.0	No Value	--	No Value	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630.0	1.8E+04	3.5E-02	6.0E+05	1.1E-03
100-D-31:3, 100-D-31:4_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.8E-04	--	2.4E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1200.0	5.2E+02	**2.3E+00**	1.9E+03	6.3E-01
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	5.3E-05	9.1E+01	2.1E-03
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2400.0	2.0E+05	1.2E-02	3.6E+08	6.7E-06
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5558.3	No Value	--	No Value	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2042.4	5.0E+03	4.1E-01	7.9E+05	2.6E-03
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	9.2E-05
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.4E-05	5.2E+03	1.3E-04
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	70800.8	2.0E+03	**3.5E+01**	3.1E+04	**2.3E+00**
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47795.5	5.0E+04	9.6E-01	6.8E+04	7.1E-01
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.3	No Value	--	4.0E+02	6.5E-04
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	No Value	--	8.8E+02	1.8E-03
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12.0	2.0E+04	6.0E-04	1.1E+06	1.1E-05
100-D-31:3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2174.8	1.0E+04	2.2E-01	1.9E+05	1.2E-02
100-D-31:3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60235.2	3.3E+05	1.8E-01	1.3E+06	4.6E-02
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42.0	1.8E+04	2.3E-03	6.4E+04	6.6E-04
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	19.9	1.8E+04	1.1E-03	7.6E+04	2.6E-04
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44.0	1.8E+04	2.4E-03	3.9E+04	1.1E-03
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10.2	1.8E+04	5.7E-04	3.9E+04	2.6E-04
100-D-31:3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	146.6	1.0E+04	1.5E-02	1.4E+04	1.1E-02
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4300.0	1.0E+05	4.3E-02	4.5E+04	9.5E-02
100-D-31:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1200.0	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
100-D-31:3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	72.0	4.0E+03	1.8E-02	1.6E+03	4.4E-02
100-D-31:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7656.1	4.0E+02	**1.9E+01**	3.8E+04	2.0E-01
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45.0	1.8E+04	2.5E-03	4.5E+04	1.0E-03
100-D-31:3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9345.9	1.3E+04	7.2E-01	1.1E+05	8.4E-02
100-D-31:3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	18361.5	5.0E+04	3.7E-01	1.1E+05	1.7E-01
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97.0	1.8E+04	5.4E-03	8.4E+05	1.2E-04
100-D-31:3_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	991.7	No Value	--	2.3E+06	4.4E-04
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181.0	No Value	--	1.3E+06	1.5E-04
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54.0	1.8E+04	3.0E-03	3.6E+04	1.5E-03
100-D-31:3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3311.2	5.0E+04	6.6E-02	3.6E+04	9.3E-02
100-D-31:3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	302830.9	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18.5	1.0E+02	1.9E-01	1.9E+03	9.9E-03
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	No Value	--	1.7E+05	1.2E-05
100-D-31:3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	380.0	2.0E+03	1.9E-01	1.4E+04	2.7E-02
100-D-31:3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9006.2	3.0E+04	3.0E-01	3.3E+04	2.8E-01
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1219.2	No Value	--	No Value	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1248.3	No Value	--	No Value	--
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97.0	1.8E+04	5.4E-03	6.0E+05	1.6E-04
100-D-31:3_Shallow	Rad	Rads SOF	---	pCi/g	--	--	6.9E-05	--	2.9E-04
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	2.0E+05	1.4E-02	3.6E+08	7.8E-06
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	No Value	--	No Value	--
100-D-31:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,554	5.0E+03	5.1E-01	7.9E+05	3.3E-03
100-D-31:3_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.75	5.2E+04	1.5E-05	6.4E+03	1.2E-04
100-D-31:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	1.6E+04	5.5E-05	5.2E+03	1.7E-04
100-D-31:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,700	2.0E+03	**3.6E+01**	3.1E+04	**2.3E+00**
100-D-31:3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	47,716	5.0E+04	9.5E-01	6.8E+04	7.0E-01
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	2.9E+04	7.9E-04	6.0E+03	3.8E-03
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	No Value	--	4.0E+02	1.5E-03
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	No Value	--	No Value	--
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	2.9E+04	1.9E-02	6.8E+05	8.3E-04
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	4.0E+04	4.8E-04	1.5E+03	1.3E-02
100-D-31:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,165	1.0E+04	2.2E-01	1.9E+05	1.1E-02
100-D-31:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,687	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	1.8E+04	3.6E-02	6.4E+04	1.0E-02
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	1.8E+04	1.1E-01	7.6E+04	2.5E-02
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	1.8E+04	8.9E-02	3.9E+04	4.1E-02
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	1.8E+04	5.1E-02	3.9E+04	2.4E-02
100-D-31:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	129	1.0E+04	1.3E-02	1.4E+04	9.2E-03
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	1.0E+05	1.4E-03	4.5E+04	3.0E-03

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,000	5.0E+02	**2.0E+00**	1.3E+05	7.5E-03
100-D-31:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	85	4.0E+03	2.1E-02	1.6E+03	5.2E-02
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	No Value	--	No Value	--
100-D-31:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.062	2.2E+03	2.8E-05	9.2E+02	6.7E-05
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	1.0E+03	3.7E-04	5.0E+04	7.3E-06
100-D-31:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,358	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	1.8E+04	1.1E-01	4.5E+04	4.3E-02
100-D-31:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,170	1.3E+04	8.6E-01	1.1E+05	1.0E-01
100-D-31:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,125	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	1.8E+04	9.8E-03	4.4E+04	4.0E-03
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	No Value	--	No Value	--
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	1.8E+04	2.3E-01	8.4E+05	5.0E-03
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	2.9E+04	8.4E-03	1.8E+05	1.4E-03
100-D-31:4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	950	No Value	--	2.3E+06	4.2E-04
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	No Value	--	1.3E+06	3.5E-04
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	1.8E+04	5.4E-02	3.6E+04	2.7E-02
100-D-31:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,636	5.0E+04	9.3E-02	3.6E+04	1.3E-01
100-D-31:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,669	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	1.0E+02	4.2E-01	1.9E+03	2.2E-02
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	No Value	--	1.7E+05	7.9E-06
100-D-31:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	320	2.0E+03	1.6E-01	1.4E+04	2.3E-02
100-D-31:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,006	3.0E+04	3.3E-01	3.3E+04	3.1E-01
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	566	No Value	--	No Value	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	No Value	--	No Value	--
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	1.8E+04	7.1E-02	6.0E+05	2.1E-03
100-D-31:4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.0E-05	--	2.8E-04
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9750.0	2.0E+05	4.9E-02	3.6E+08	2.7E-05
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36219.4	No Value	--	No Value	--
100-D-31:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1929.3	5.0E+03	3.9E-01	7.9E+05	2.5E-03
100-D-31:4_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	8.7E-05
100-D-31:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	4.1E-05	5.2E+03	1.3E-04
100-D-31:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	85009.0	2.0E+03	**4.3E+01**	3.1E+04	**2.7E+00**
100-D-31:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48937.2	5.0E+04	9.8E-01	6.8E+04	7.2E-01
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473.0	5.0E+03	9.5E-02	6.0E+03	7.9E-02
100-D-31:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2520.0	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-31:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	58700.0	3.3E+05	1.8E-01	1.3E+06	4.4E-02
100-D-31:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	219.0	1.0E+04	2.2E-02	1.4E+04	1.6E-02
100-D-31:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	825.0	5.0E+02	**1.7E+00**	1.3E+05	6.2E-03
100-D-31:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	60.0	4.0E+03	1.5E-02	1.6E+03	3.7E-02
100-D-31:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9490.0	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
100-D-31:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9050.0	1.3E+04	7.0E-01	1.1E+05	8.1E-02
100-D-31:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17600.0	5.0E+04	3.5E-01	1.1E+05	1.6E-01
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	1.8E+04	3.2E-04	8.4E+05	6.8E-06
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190.0	No Value	--	1.3E+06	1.5E-04
100-D-31:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3460.0	5.0E+04	6.9E-02	3.6E+04	9.7E-02
100-D-31:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346000.0	2.2E+05	**1.6E+00**	5.8E+06	6.0E-02
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472.0	2.0E+03	2.4E-01	1.4E+04	3.4E-02
100-D-31:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10500.0	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-31:4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5900.0	No Value	--	3.4E+08	1.7E-05
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1480.0	No Value	--	No Value	--
100-D-31:4_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	5.4E-05	--	2.2E-04
100-D-31:4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2024.2	5.0E+03	4.1E-01	7.9E+05	2.6E-03
100-D-31:4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	8.8E-05
100-D-31:4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.3E-05	5.2E+03	1.3E-04
100-D-31:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75300.0	2.0E+03	**3.8E+01**	3.1E+04	**2.4E+00**
100-D-31:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48600.0	5.0E+04	9.7E-01	6.8E+04	7.2E-01
100-D-31:5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4058.6	1.0E+04	4.1E-01	1.9E+05	2.1E-02
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259913.7	3.3E+05	7.9E-01	1.3E+06	2.0E-01
100-D-31:5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	492.1	1.0E+04	4.9E-02	1.4E+04	3.5E-02
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20105.3	5.0E+02	**4.0E+01**	1.3E+05	1.5E-01
100-D-31:5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12462.4	4.0E+02	**3.1E+01**	3.8E+04	3.3E-01
100-D-31:5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9645.9	1.3E+04	7.4E-01	1.1E+05	8.7E-02
100-D-31:5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	17652.2	5.0E+04	3.5E-01	1.1E+05	1.7E-01
100-D-31:5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	8925.2	5.0E+04	1.8E-01	3.6E+04	2.5E-01
100-D-31:5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	371944.5	2.2E+05	**1.7E+00**	5.8E+06	6.4E-02
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	141.8	1.0E+02	**1.4E+00**	1.9E+03	7.6E-02
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1146.4	2.0E+03	5.7E-01	1.4E+04	8.2E-02
100-D-31:5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	14926.0	3.0E+04	5.0E-01	3.3E+04	4.6E-01
100-D-31:5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	28748.5	No Value	--	3.4E+08	8.5E-05
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1728.3	5.2E+02	**3.3E+00**	1.9E+03	9.1E-01
100-D-31:5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65425.6	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-31:5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	56474.0	5.0E+04	**1.1E+00**	6.8E+04	8.3E-01
100-D-31:5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3275.7	1.0E+04	3.3E-01	1.9E+05	1.7E-02
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144276.9	3.3E+05	4.4E-01	1.3E+06	1.1E-01
100-D-31:5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	230.8	1.0E+04	2.3E-02	1.4E+04	1.7E-02
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10483.8	5.0E+02	**2.1E+01**	1.3E+05	7.9E-02
100-D-31:5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	241.9	4.0E+03	6.1E-02	1.6E+03	1.5E-01
100-D-31:5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12394.7	4.0E+02	**3.1E+01**	3.8E+04	3.3E-01
100-D-31:5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8126.4	1.3E+04	6.3E-01	1.1E+05	7.3E-02
100-D-31:5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15737.5	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-31:5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7456.0	5.0E+04	1.5E-01	3.6E+04	2.1E-01
100-D-31:5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331457.6	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240.0	1.0E+02	**2.4E+00**	1.9E+03	1.3E-01
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700.0	2.0E+03	3.5E-01	1.4E+04	5.0E-02
100-D-31:5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12578.9	3.0E+04	4.2E-01	3.3E+04	3.9E-01
100-D-31:5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	46046.6	No Value	--	3.4E+08	1.4E-04
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1500.0	5.2E+02	**2.9E+00**	1.9E+03	7.9E-01
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54695.6	2.0E+03	**2.7E+01**	3.1E+04	**1.8E+00**
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89616.7	5.0E+04	**1.8E+00**	6.8E+04	**1.3E+00**
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.3	No Value	--	4.0E+02	7.5E-04
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556.0	5.0E+03	1.1E-01	6.0E+03	9.3E-02
100-D-31:6_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3551.2	1.0E+04	3.6E-01	1.9E+05	1.9E-02
100-D-31:6_Overburden	non-Rad	Barium	7440-39-3	ug/kg	110920.4	3.3E+05	3.4E-01	1.3E+06	8.4E-02
100-D-31:6_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1379.9	1.0E+04	1.4E-01	1.4E+04	9.9E-02
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5998.3	5.0E+02	**1.2E+01**	1.3E+05	4.5E-02
100-D-31:6_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	60.1	4.0E+03	1.5E-02	1.6E+03	3.7E-02
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9736.0	4.0E+02	**2.4E+01**	3.8E+04	2.6E-01
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14.0	1.8E+04	7.8E-04	4.5E+04	3.1E-04
100-D-31:6_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8947.4	1.3E+04	6.9E-01	1.1E+05	8.0E-02
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24687.2	5.0E+04	4.9E-01	1.1E+05	2.3E-01
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	No Value	--	2.1E+01	1.4E-01
100-D-31:6_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1709.0	No Value	--	2.3E+06	7.5E-04
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	No Value	--	No Value	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	606.7	No Value	--	1.3E+06	4.9E-04
100-D-31:6_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7536.8	5.0E+04	1.5E-01	3.6E+04	2.1E-01
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	355498.3	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870.0	1.0E+02	**8.7E+00**	1.9E+03	4.7E-01
100-D-31:6_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	326.1	2.0E+03	1.6E-01	1.4E+04	2.3E-02
100-D-31:6_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11582.6	3.0E+04	3.9E-01	3.3E+04	3.6E-01
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3654.2	No Value	--	No Value	--
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66498.9	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	65613.6	5.0E+04	**1.3E+00**	6.8E+04	9.7E-01
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800.0	5.0E+03	1.6E-01	6.0E+03	1.3E-01
100-D-31:6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3998.2	1.0E+04	4.0E-01	1.9E+05	2.1E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	105117.6	3.3E+05	3.2E-01	1.3E+06	8.0E-02
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	1.8E+04	4.4E-04	6.4E+04	1.3E-04
100-D-31:6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1273.6	1.0E+04	1.3E-01	1.4E+04	9.1E-02
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5859.7	5.0E+02	**1.2E+01**	1.3E+05	4.4E-02
100-D-31:6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	103.2	4.0E+03	2.6E-02	1.6E+03	6.3E-02
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10797.6	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	1.8E+04	5.2E-04	4.5E+04	2.1E-04
100-D-31:6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9066.4	1.3E+04	7.0E-01	1.1E+05	8.1E-02
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26377.3	5.0E+04	5.3E-01	1.1E+05	2.5E-01
100-D-31:6_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1171.6	No Value	--	2.3E+06	5.1E-04
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363.3	No Value	--	1.3E+06	2.9E-04
100-D-31:6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8354.4	5.0E+04	1.7E-01	3.6E+04	2.4E-01
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330083.2	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577.0	1.0E+02	**5.8E+00**	1.9E+03	3.1E-01
100-D-31:6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	460.0	2.0E+03	2.3E-01	1.4E+04	3.3E-02
100-D-31:6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12585.4	3.0E+04	4.2E-01	3.3E+04	3.9E-01
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6984.9	No Value	--	No Value	--
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65022.9	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63960.1	5.0E+04	**1.3E+00**	6.8E+04	9.4E-01
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	No Value	--	3.1E+06	6.3E-07
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.7	No Value	--	4.0E+02	1.7E-03
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13.0	No Value	--	No Value	--
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404.2	5.0E+03	8.1E-02	6.0E+03	6.8E-02
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	4.0E+04	2.1E-04	1.5E+03	5.6E-03
100-D-31:7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1861.8	1.0E+04	1.9E-01	1.9E+05	9.8E-03
100-D-31:7_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66232.5	3.3E+05	2.0E-01	1.3E+06	5.0E-02
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	1.8E+04	2.2E-04	6.4E+04	6.3E-05
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1700.0	1.0E+04	1.7E-01	1.4E+04	1.2E-01
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73.3	1.0E+05	7.3E-04	4.5E+04	1.6E-03
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2304.6	5.0E+02	**4.6E+00**	1.3E+05	1.7E-02
100-D-31:7_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	46.0	4.0E+03	1.2E-02	1.6E+03	2.8E-02
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6037.8	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
100-D-31:7_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8774.9	1.3E+04	6.8E-01	1.1E+05	7.9E-02
100-D-31:7_Overburden	non-Rad	Copper	7440-50-8	ug/kg	20400.0	5.0E+04	4.1E-01	1.1E+05	1.9E-01
100-D-31:7_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1300.0	No Value	--	2.3E+06	5.7E-04
100-D-31:7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2665.2	5.0E+04	5.3E-02	3.6E+04	7.5E-02
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	304517.9	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	No Value	--	1.7E+05	1.5E-05
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514.3	2.0E+03	2.6E-01	1.4E+04	3.7E-02
100-D-31:7_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9125.0	3.0E+04	3.0E-01	3.3E+04	2.8E-01
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939.5	No Value	--	No Value	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687.4	No Value	--	No Value	--
100-D-31:7_Overburden	Rad	Rads SOF	---	pCi/g	--	--	4.3E-05	--	1.2E-03
100-D-31:7_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.1	3.6E+03	2.9E-05	9.1E+01	1.2E-03
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1766.7	2.0E+05	8.8E-03	3.6E+08	5.0E-06
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3876.0	No Value	--	No Value	--
100-D-31:7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	472.3	5.0E+03	9.5E-02	7.9E+05	6.0E-04
100-D-31:7_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.1E-06	6.4E+03	2.5E-05
100-D-31:7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.0E-05	5.2E+03	3.1E-05
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66619.5	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
100-D-31:7_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42803.8	5.0E+04	8.6E-01	6.8E+04	6.3E-01
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	No Value	--	3.1E+06	5.7E-07
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	No Value	--	No Value	--
100-D-31:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1391.4	1.0E+04	1.4E-01	1.9E+05	7.3E-03
100-D-31:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66248.3	3.3E+05	2.0E-01	1.3E+06	5.0E-02
100-D-31:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1500.0	1.0E+04	1.5E-01	1.4E+04	1.1E-01
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68.0	1.0E+05	6.8E-04	4.5E+04	1.5E-03
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7233.8	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
100-D-31:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10431.5	1.3E+04	8.0E-01	1.1E+05	9.4E-02
100-D-31:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17912.5	5.0E+04	3.6E-01	1.1E+05	1.7E-01
100-D-31:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1793.9	5.0E+04	3.6E-02	3.6E+04	5.0E-02
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	335983.3	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92.1	1.0E+02	9.2E-01	1.9E+03	4.9E-02
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	No Value	--	1.7E+05	1.4E-05
100-D-31:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	259.5	2.0E+03	1.3E-01	1.4E+04	1.9E-02
100-D-31:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9656.8	3.0E+04	3.2E-01	3.3E+04	3.0E-01
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	695.8	No Value	--	No Value	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1458.6	No Value	--	No Value	--
100-D-31:7_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.1E-06	--	3.9E-05
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900.0	2.0E+05	4.5E-03	3.6E+08	2.5E-06
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1100.0	No Value	--	No Value	--
100-D-31:7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	323.7	5.0E+03	6.5E-02	7.9E+05	4.1E-04
100-D-31:7_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	2.2E-06	6.4E+03	1.8E-05
100-D-31:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.1	1.6E+04	6.9E-06	5.2E+03	2.1E-05
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80979.7	2.0E+03	**4.1E+01**	3.1E+04	**2.6E+00**
100-D-31:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48513.5	5.0E+04	9.7E-01	6.8E+04	7.2E-01
100-D-31:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1000.0	1.0E+04	1.0E-01	1.9E+05	5.3E-03
100-D-31:7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75300.0	3.3E+05	2.3E-01	1.3E+06	5.7E-02
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63.0	1.0E+05	6.3E-04	4.5E+04	1.4E-03
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1500.0	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5900.0	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
100-D-31:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10600.0	1.3E+04	8.2E-01	1.1E+05	9.5E-02
100-D-31:7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17900.0	5.0E+04	3.6E-01	1.1E+05	1.7E-01
100-D-31:7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1800.0	5.0E+04	3.6E-02	3.6E+04	5.1E-02
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340000.0	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-D-31:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	230.0	2.0E+03	1.2E-01	1.4E+04	1.7E-02
100-D-31:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10400.0	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700.0	No Value	--	No Value	--
100-D-31:7_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	1.1E-05	--	5.0E-05
100-D-31:7_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	363.2	5.0E+03	7.3E-02	7.9E+05	4.6E-04
100-D-31:7_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.3E-06	6.4E+03	2.6E-05
100-D-31:7_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.1	1.6E+04	7.8E-06	5.2E+03	2.4E-05
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	79500.0	2.0E+03	**4.0E+01**	3.1E+04	**2.6E+00**
100-D-31:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48100.0	5.0E+04	9.6E-01	6.8E+04	7.1E-01
100-D-31:8_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1796.2	1.0E+04	1.8E-01	1.9E+05	9.5E-03
100-D-31:8_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74527.2	3.3E+05	2.3E-01	1.3E+06	5.6E-02
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	1.8E+04	5.0E-04	7.6E+04	1.2E-04
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	1.8E+04	3.9E-04	3.9E+04	1.8E-04
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1200.0	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
100-D-31:8_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	49.0	4.0E+03	1.2E-02	1.6E+03	3.0E-02
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7016.8	4.0E+02	**1.8E+01**	3.8E+04	1.8E-01
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13.0	1.8E+04	7.2E-04	4.5E+04	2.9E-04
100-D-31:8_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8458.0	1.3E+04	6.5E-01	1.1E+05	7.6E-02
100-D-31:8_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15323.4	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-31:8_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1168.2	No Value	--	2.3E+06	5.1E-04
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332.0	No Value	--	1.3E+06	2.7E-04
100-D-31:8_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3584.4	5.0E+04	7.2E-02	3.6E+04	1.0E-01
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	339534.9	2.2E+05	**1.5E+00**	5.8E+06	5.9E-02
100-D-31:8_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.8	1.0E+02	7.8E-02	1.9E+03	4.2E-03
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480.0	2.0E+03	2.4E-01	1.4E+04	3.4E-02
100-D-31:8_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10367.8	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1022.9	No Value	--	No Value	--

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783.3	No Value	--	No Value	--
100-D-31:8_Overburden	Rad	Rads SOF	---	pCi/g	--	--	2.8E-04	--	1.0E-02
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.9	3.6E+03	2.6E-04	9.1E+01	1.0E-02
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1916.7	No Value	--	No Value	--
100-D-31:8_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	838.6	5.0E+03	1.7E-01	7.9E+05	1.1E-03
100-D-31:8_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.3	5.2E+04	5.1E-06	6.4E+03	4.1E-05
100-D-31:8_Overburden	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.8E-05	5.2E+03	5.5E-05
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	64671.7	2.0E+03	**3.2E+01**	3.1E+04	**2.1E+00**
100-D-31:8_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44757.6	5.0E+04	9.0E-01	6.8E+04	6.6E-01
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.6	No Value	--	8.8E+02	7.1E-04
100-D-31:8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2205.0	1.0E+04	2.2E-01	1.9E+05	1.2E-02
100-D-31:8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62186.1	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	1.8E+04	3.3E-04	6.4E+04	9.3E-05
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12.0	1.8E+04	6.7E-04	7.6E+04	1.6E-04
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12.0	1.8E+04	6.7E-04	3.9E+04	3.1E-04
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	1.8E+04	3.8E-04	3.9E+04	1.8E-04
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	102.5	1.0E+05	1.0E-03	4.5E+04	2.3E-03
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	940.0	5.0E+02	**1.9E+00**	1.3E+05	7.1E-03
100-D-31:8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	71.0	4.0E+03	1.8E-02	1.6E+03	4.4E-02
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5289.9	4.0E+02	**1.3E+01**	3.8E+04	1.4E-01
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	1.8E+04	5.1E-04	4.5E+04	2.1E-04
100-D-31:8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8016.5	1.3E+04	6.2E-01	1.1E+05	7.2E-02
100-D-31:8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14311.2	5.0E+04	2.9E-01	1.1E+05	1.3E-01
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17.0	1.8E+04	9.4E-04	8.4E+05	2.0E-05
100-D-31:8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1850.0	No Value	--	2.3E+06	8.1E-04
100-D-31:8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3024.0	5.0E+04	6.1E-02	3.6E+04	8.5E-02
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	312190.2	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
100-D-31:8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.6	1.0E+02	9.6E-02	1.9E+03	5.1E-03
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630.0	2.0E+03	3.2E-01	1.4E+04	4.5E-02
100-D-31:8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8942.8	3.0E+04	3.0E-01	3.3E+04	2.7E-01
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563.2	No Value	--	No Value	--
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27.0	1.8E+04	1.5E-03	6.0E+05	4.5E-05
100-D-31:8_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.6E-05	--	6.7E-05
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1700.0	2.0E+05	8.5E-03	3.6E+08	4.8E-06
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2100.0	No Value	--	No Value	--
100-D-31:8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	516.0	5.0E+03	1.0E-01	7.9E+05	6.6E-04
100-D-31:8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.6E-06	6.4E+03	2.9E-05
100-D-31:8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.2E-05	5.2E+03	3.7E-05
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48087.3	2.0E+03	**2.4E+01**	3.1E+04	**1.5E+00**
100-D-31:8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38019.1	5.0E+04	7.6E-01	6.8E+04	5.6E-01
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446.0	5.0E+03	8.9E-02	6.0E+03	7.5E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1890.0	1.0E+04	1.9E-01	1.9E+05	1.0E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	70500.0	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	169.0	1.0E+04	1.7E-02	1.4E+04	1.2E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	65.0	4.0E+03	1.6E-02	1.6E+03	4.0E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6790.0	4.0E+02	**1.7E+01**	3.8E+04	1.8E-01
100-D-31:8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9000.0	1.3E+04	6.9E-01	1.1E+05	8.1E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	16200.0	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190.0	No Value	--	1.3E+06	1.5E-04
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77.1	No Value	--	No Value	--
100-D-31:8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2510.0	5.0E+04	5.0E-02	3.6E+04	7.1E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	334000.0	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26.0	1.0E+02	2.6E-01	1.9E+03	1.4E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502.0	2.0E+03	2.5E-01	1.4E+04	3.6E-02
100-D-31:8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	8890.0	3.0E+04	3.0E-01	3.3E+04	2.7E-01
100-D-31:8_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	9400.0	No Value	--	3.4E+08	2.8E-05
100-D-31:8_Shallow_Focused_1	non-Rad	Silver	7440-22-4	ug/kg	147.0	2.0E+03	7.4E-02	5.0E+04	3.0E-03
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94900.0	2.0E+03	**4.8E+01**	3.1E+04	**3.1E+00**
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	51800.0	5.0E+04	**1.0E+00**	6.8E+04	7.6E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	5900.0	1.0E+04	5.9E-01	1.9E+05	3.1E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1570000.0	3.3E+05	**4.8E+00**	1.3E+06	**1.2E+00**
100-D-31:8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1300.0	1.0E+04	1.3E-01	1.4E+04	9.3E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169000.0	5.0E+02	**3.4E+02**	1.3E+05	**1.3E+00**
100-D-31:8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	430.0	4.0E+03	1.1E-01	1.6E+03	2.6E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13400.0	4.0E+02	**3.4E+01**	3.8E+04	3.5E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9900.0	1.3E+04	7.6E-01	1.1E+05	8.9E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42400.0	5.0E+04	8.5E-01	1.1E+05	4.0E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24200.0	5.0E+04	4.8E-01	3.6E+04	6.8E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	368000.0	2.2E+05	**1.7E+00**	5.8E+06	6.4E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120.0	1.0E+02	**1.2E+00**	1.9E+03	6.4E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2300.0	2.0E+03	**1.2E+00**	1.4E+04	1.7E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19700.0	3.0E+04	6.6E-01	3.3E+04	6.1E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67200.0	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83000.0	5.0E+04	**1.7E+00**	6.8E+04	**1.2E+00**
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31.0	No Value	--	4.0E+02	7.8E-02
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12.0	No Value	--	8.8E+02	1.4E-02
100-D-31:9_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1175.3	1.0E+04	1.2E-01	1.9E+05	6.2E-03
100-D-31:9_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58675.6	3.3E+05	1.8E-01	1.3E+06	4.4E-02
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87.1	1.0E+05	8.7E-04	4.5E+04	1.9E-03
100-D-31:9_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	73.7	4.0E+03	1.8E-02	1.6E+03	4.5E-02
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	5328.4	4.0E+02	**1.3E+01**	3.8E+04	1.4E-01
100-D-31:9_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8066.0	1.3E+04	6.2E-01	1.1E+05	7.2E-02
100-D-31:9_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13689.4	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-D-31:9_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900.0	No Value	--	2.3E+06	4.0E-04
100-D-31:9_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3028.6	5.0E+04	6.1E-02	3.6E+04	8.5E-02
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	292130.1	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-D-31:9_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.6	1.0E+02	7.6E-02	1.9E+03	4.0E-03
100-D-31:9_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	360.0	2.0E+03	1.8E-01	1.4E+04	2.6E-02
100-D-31:9_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9187.3	3.0E+04	3.1E-01	3.3E+04	2.8E-01
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652.4	No Value	--	No Value	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1300.0	No Value	--	No Value	--
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24.0	3.0E+04	8.0E-04	1.5E+06	1.6E-05
100-D-31:9_Overburden	Rad	Rads SOF	---	pCi/g	--	--	2.3E-05	--	9.3E-05
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2800.0	No Value	--	No Value	--
100-D-31:9_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	772.5	5.0E+03	1.6E-01	7.9E+05	9.8E-04
100-D-31:9_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	4.5E-06	6.4E+03	3.6E-05
100-D-31:9_Overburden	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.8E-05	5.2E+03	5.6E-05
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52679.8	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
100-D-31:9_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39154.9	5.0E+04	7.8E-01	6.8E+04	5.8E-01
100-D-31:9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2517.4	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-31:9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61242.5	3.3E+05	1.9E-01	1.3E+06	4.6E-02
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47.0	1.8E+04	2.6E-03	6.4E+04	7.3E-04
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14.3	1.8E+04	7.9E-04	7.6E+04	1.9E-04
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28.0	1.8E+04	1.6E-03	3.9E+04	7.1E-04
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11.0	1.8E+04	6.1E-04	3.9E+04	2.8E-04
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114.2	1.0E+05	1.1E-03	4.5E+04	2.5E-03
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1100.0	5.0E+02	**2.2E+00**	1.3E+05	8.3E-03
100-D-31:9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	52.7	4.0E+03	1.3E-02	1.6E+03	3.2E-02
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5132.3	4.0E+02	**1.3E+01**	3.8E+04	1.3E-01
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	18.6	1.8E+04	1.0E-03	4.5E+04	4.2E-04

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-31:9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8665.9	1.3E+04	6.7E-01	1.1E+05	7.8E-02
100-D-31:9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14871.5	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222.0	No Value	--	1.3E+06	1.8E-04
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12.0	1.8E+04	6.7E-04	3.6E+04	3.4E-04
100-D-31:9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2853.4	5.0E+04	5.7E-02	3.6E+04	8.0E-02
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	318748.4	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
100-D-31:9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.6	1.0E+02	6.6E-02	1.9E+03	3.6E-03
100-D-31:9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260.0	2.0E+03	1.3E-01	1.4E+04	1.9E-02
100-D-31:9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8677.7	3.0E+04	2.9E-01	3.3E+04	2.7E-01
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607.3	No Value	--	No Value	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690.0	No Value	--	No Value	--
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70.0	1.8E+04	3.9E-03	6.0E+05	1.2E-04
100-D-31:9_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.9E-05	--	7.5E-05
100-D-31:9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	734.7	5.0E+03	1.5E-01	7.9E+05	9.4E-04
100-D-31:9_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.3E-06	6.4E+03	2.7E-05
100-D-31:9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.6E-05	5.2E+03	4.8E-05
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57014.2	2.0E+03	**2.9E+01**	3.1E+04	**1.8E+00**
100-D-31:9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40433.1	5.0E+04	8.1E-01	6.8E+04	6.0E-01
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833.2	5.0E+03	1.7E-01	6.0E+03	1.4E-01
100-D-32_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3245.1	1.0E+04	3.3E-01	1.9E+05	1.7E-02
100-D-32_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74480.3	3.3E+05	2.3E-01	1.3E+06	5.6E-02
100-D-32_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	224.7	1.0E+04	2.3E-02	1.4E+04	1.6E-02
100-D-32_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1234.5	5.0E+02	**2.5E+00**	1.3E+05	9.3E-03
100-D-32_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11852.1	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-32_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8060.7	1.3E+04	6.2E-01	1.1E+05	7.2E-02
100-D-32_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18182.7	5.0E+04	3.6E-01	1.1E+05	1.7E-01
100-D-32_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3836.0	5.0E+04	7.7E-02	3.6E+04	1.1E-01
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	369294.4	2.2E+05	**1.7E+00**	5.8E+06	6.4E-02
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549.3	2.0E+03	2.8E-01	1.4E+04	3.9E-02
100-D-32_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12365.2	3.0E+04	4.1E-01	3.3E+04	3.8E-01
100-D-32_Overburden	Rad	Rads SOF	---	pCi/g	--	--	5.1E-05	--	2.2E-04
100-D-32_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1762.1	5.0E+03	3.5E-01	7.9E+05	2.2E-03
100-D-32_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.6E-05
100-D-32_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.6E-06	4.4E+03	9.9E-06
100-D-32_Overburden	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.8E-05	5.2E+03	1.1E-04
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	76983.5	2.0E+03	**3.9E+01**	3.1E+04	**2.5E+00**
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51820.9	5.0E+04	**1.0E+00**	6.8E+04	7.6E-01
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	825.9	5.0E+03	1.7E-01	6.0E+03	1.4E-01
100-D-32_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2499.2	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-32_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68886.9	3.3E+05	2.1E-01	1.3E+06	5.2E-02
100-D-32_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	694.1	1.0E+04	6.9E-02	1.4E+04	5.0E-02
100-D-32_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1505.0	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
100-D-32_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	200.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-D-32_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	4.7E-05	9.2E+02	1.1E-04
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10447.4	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
100-D-32_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7969.5	1.3E+04	6.1E-01	1.1E+05	7.2E-02
100-D-32_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14996.7	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-32_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5773.9	5.0E+04	1.2E-01	3.6E+04	1.6E-01
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	356899.4	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568.2	2.0E+03	2.8E-01	1.4E+04	4.1E-02
100-D-32_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12032.8	3.0E+04	4.0E-01	3.3E+04	3.7E-01
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	No Value	--	No Value	--
100-D-32_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.1E-05	--	3.1E-04
100-D-32_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1465.9	5.0E+03	2.9E-01	7.9E+05	1.9E-03
100-D-32_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.7E-06	6.4E+03	7.8E-05
100-D-32_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	2.6E-06	6.4E+03	2.1E-05
100-D-32_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.1E-05	5.2E+03	9.6E-05
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	76249.0	2.0E+03	**3.8E+01**	3.1E+04	**2.5E+00**
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	62122.5	5.0E+04	**1.2E+00**	6.8E+04	9.2E-01
100-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	5.8E-05	9.2E+02	1.4E-04
100-D-4_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.3E-04	--	3.5E-04
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3274.3	5.0E+03	6.6E-01	7.9E+05	4.2E-03
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	1.6E+04	7.0E-05	5.2E+03	2.1E-04
100-D-4_Shallow	non-Rad	Aroclor HI	---	ug/kg	--	--	4.8E-03	--	1.3E-01
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71.0	4.0E+04	1.8E-03	1.5E+03	4.8E-02
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120.0	4.0E+04	3.0E-03	1.5E+03	8.1E-02
100-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	5.4E-05	9.2E+02	1.3E-04
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.3	1.5E+04	1.9E-05	1.7E+03	1.6E-04
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199.0	No Value	--	1.3E+06	1.6E-04
100-D-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.5E-04	--	1.8E-03
100-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.13	3.6E+03	3.5E-05	9.1E+01	1.4E-03
100-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	5.0E+03	3.7E-01	7.9E+05	2.3E-03
100-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	1.6E+04	3.9E-05	5.2E+03	1.2E-04
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	5.0E+03	7.9E-02	6.0E+03	6.6E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,340	1.0E+04	2.3E-01	1.9E+05	1.2E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Barium	7440-39-3	ug/kg	61,074	3.3E+05	1.9E-01	1.3E+06	4.6E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	233	1.0E+04	2.3E-02	1.4E+04	1.7E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	ug/kg	929	5.0E+02	**1.9E+00**	1.3E+05	7.0E-03
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	101	4.0E+03	2.5E-02	1.6E+03	6.2E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,297	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,359	1.3E+04	6.4E-01	1.1E+05	7.5E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	5.0E+04	5.3E-01	1.1E+05	2.5E-01
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,752	5.0E+04	7.5E-02	3.6E+04	1.1E-01
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	316,433	2.2E+05	**1.4E+00**	5.8E+06	5.5E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	1.0E+02	2.0E-01	1.9E+03	1.1E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	2.0E+03	2.6E-01	1.4E+04	3.7E-02
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,120	3.0E+04	3.4E-01	3.3E+04	3.1E-01
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	700	5.2E+02	**1.4E+00**	1.9E+03	3.7E-01
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	63,875	2.0E+03	**3.2E+01**	3.1E+04	**2.1E+00**
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,856	5.0E+04	8.8E-01	6.8E+04	6.5E-01
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	5.0E+03	9.1E-02	6.0E+03	7.6E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	1.0E+04	1.7E-01	1.9E+05	9.2E-03
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,900	3.3E+05	1.9E-01	1.3E+06	4.6E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	242	1.0E+04	2.4E-02	1.4E+04	1.7E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,181	5.0E+02	**2.4E+00**	1.3E+05	8.9E-03
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	91	4.0E+03	2.3E-02	1.6E+03	5.6E-02
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.16	2.2E+03	7.2E-05	9.2E+02	1.7E-04
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,963	4.0E+02	**2.0E+01**	3.8E+04	2.1E-01
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,682	1.3E+04	6.7E-01	1.1E+05	7.8E-02
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	6.1E+03	1.0E-05	8.1E+02	7.7E-05
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	5.0E+04	**1.8E+00**	1.1E+05	8.4E-01
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,745	5.0E+04	9.5E-02	3.6E+04	1.3E-01
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,773	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	1.0E+02	1.4E-01	1.9E+03	7.5E-03
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	2.0E+03	2.6E-01	1.4E+04	3.7E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,516	3.0E+04	3.2E-01	3.3E+04	2.9E-01
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.2E-05	--	2.5E-04
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69326.3	2.0E+03	**3.5E+01**	3.1E+04	**2.2E+00**
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59192.2	5.0E+04	**1.2E+00**	6.8E+04	8.7E-01
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2000.0	1.0E+04	2.0E-01	1.9E+05	1.1E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59000.0	3.3E+05	1.8E-01	1.3E+06	4.5E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	100.0	1.0E+04	1.0E-02	1.4E+04	7.2E-03
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	660.0	5.0E+02	**1.3E+00**	1.3E+05	5.0E-03
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160.0	4.0E+03	4.0E-02	1.6E+03	9.8E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.6	2.2E+03	2.9E-04	9.2E+02	7.0E-04
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7800.0	4.0E+02	**2.0E+01**	3.8E+04	2.0E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9700.0	1.3E+04	7.5E-01	1.1E+05	8.7E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	6.1E+03	2.0E-04	8.1E+02	1.5E-03
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15500.0	5.0E+04	3.1E-01	1.1E+05	1.5E-01
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	2.9E+04	6.6E-05	1.8E+05	1.1E-05
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3200.0	5.0E+04	6.4E-02	3.6E+04	9.0E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	335000.0	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10.0	No Value	--	1.7E+05	6.0E-05
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530.0	2.0E+03	2.7E-01	1.4E+04	3.8E-02
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9200.0	3.0E+04	3.1E-01	3.3E+04	2.8E-01
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464.0	No Value	--	No Value	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	4.9E-04	--	2.2E-03
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	77900.0	2.0E+03	**3.9E+01**	3.1E+04	**2.5E+00**
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55000.0	5.0E+04	**1.1E+00**	6.8E+04	8.1E-01
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789.4	5.0E+03	1.6E-01	6.0E+03	1.3E-01
100-D-47_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3159.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-47_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74846.8	3.3E+05	2.3E-01	1.3E+06	5.7E-02
100-D-47_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	224.7	1.0E+04	2.3E-02	1.4E+04	1.6E-02
100-D-47_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1497.1	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
100-D-47_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11948.3	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-47_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7294.8	1.3E+04	5.6E-01	1.1E+05	6.5E-02
100-D-47_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15503.8	5.0E+04	3.1E-01	1.1E+05	1.5E-01
100-D-47_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4065.5	5.0E+04	8.1E-02	3.6E+04	1.1E-01
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	342771.4	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-D-47_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11.0	1.0E+02	1.1E-01	1.9E+03	5.9E-03
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492.2	2.0E+03	2.5E-01	1.4E+04	3.5E-02
100-D-47_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12406.0	3.0E+04	4.1E-01	3.3E+04	3.8E-01
100-D-47_Overburden	Rad	Rads SOF	---	pCi/g	--	--	6.1E-04	--	2.2E-02
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	3.6E+03	5.6E-04	9.1E+01	2.2E-02
100-D-47_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1713.1	5.0E+03	3.4E-01	7.9E+05	2.2E-03
100-D-47_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	1.0E-04
100-D-47_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	2.0E-06	4.4E+03	1.3E-05
100-D-47_Overburden	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.7E-05	5.2E+03	1.1E-04
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	68751.6	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
100-D-47_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	45247.8	5.0E+04	9.1E-01	6.8E+04	6.7E-01
100-D-47_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3157.1	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-47_Shallow	non-Rad	Barium	7440-39-3	ug/kg	74541.7	3.3E+05	2.3E-01	1.3E+06	5.6E-02
100-D-47_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	509.7	1.0E+04	5.1E-02	1.4E+04	3.7E-02
100-D-47_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1317.4	5.0E+02	**2.6E+00**	1.3E+05	9.9E-03
100-D-47_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	224.7	4.0E+03	5.6E-02	1.6E+03	1.4E-01
100-D-47_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	4.1E-05	9.2E+02	9.7E-05
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11827.8	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-47_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7982.2	1.3E+04	6.1E-01	1.1E+05	7.2E-02
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.6	6.1E+03	9.9E-05	8.1E+02	7.5E-04
100-D-47_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15445.3	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.2E-05	1.7E+03	1.0E-04
100-D-47_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4017.7	5.0E+04	8.0E-02	3.6E+04	1.1E-01
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	338839.4	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	500.8	2.0E+03	2.5E-01	1.4E+04	3.6E-02
100-D-47_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11350.5	3.0E+04	3.8E-01	3.3E+04	3.5E-01
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	No Value	--	No Value	--
100-D-47_Shallow	Rad	Rads SOF	---	pCi/g	--	--	4.6E-04	--	1.1E-02
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.9	3.6E+03	2.6E-04	9.1E+01	1.0E-02
100-D-47_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1694.4	5.0E+03	3.4E-01	7.9E+05	2.2E-03
100-D-47_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.5E-05
100-D-47_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.4E-06	4.4E+03	8.9E-06
100-D-47_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.6E-05	5.2E+03	1.1E-04
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	70090.4	2.0E+03	**3.5E+01**	3.1E+04	**2.3E+00**
100-D-47_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49435.4	5.0E+04	9.9E-01	6.8E+04	7.3E-01
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700.0	5.0E+03	1.4E-01	6.0E+03	1.2E-01
100-D-47_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3300.0	1.0E+04	3.3E-01	1.9E+05	1.7E-02
100-D-47_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69600.0	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-47_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300.0	1.0E+04	3.0E-02	1.4E+04	2.2E-02
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1700.0	5.0E+02	**3.4E+00**	1.3E+05	1.3E-02
100-D-47_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-D-47_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.7	2.2E+03	3.1E-04	9.2E+02	7.4E-04
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11300.0	4.0E+02	**2.8E+01**	3.8E+04	3.0E-01
100-D-47_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8500.0	1.3E+04	6.5E-01	1.1E+05	7.6E-02
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	2.2E-05	8.1E+02	1.6E-04
100-D-47_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14100.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	1.5E+04	1.0E-04	1.7E+03	8.7E-04
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320.0	No Value	--	1.3E+06	2.6E-04
100-D-47_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5100.0	5.0E+04	1.0E-01	3.6E+04	1.4E-01
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360000.0	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500.0	2.0E+03	2.5E-01	1.4E+04	3.6E-02
100-D-47_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11300.0	3.0E+04	3.8E-01	3.3E+04	3.5E-01
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36.2	No Value	--	No Value	--
100-D-47_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	8.1E-04	--	1.5E-02
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	3.6E+03	3.3E-04	9.1E+01	1.3E-02
100-D-47_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1550.9	5.0E+03	3.1E-01	7.9E+05	2.0E-03
100-D-47_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	1.1E-05	6.4E+03	8.5E-05
100-D-47_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.3E-05	5.2E+03	1.0E-04
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85700.0	2.0E+03	**4.3E+01**	3.1E+04	**2.8E+00**
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55300.0	5.0E+04	**1.1E+00**	6.8E+04	8.2E-01
100-D-48:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.3	2.2E+03	1.2E-04	9.2E+02	2.9E-04
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.3	1.5E+04	2.1E-05	1.7E+03	1.8E-04
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643.0	No Value	--	1.3E+06	5.2E-04
100-D-48:1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.3E-04	--	2.8E-03
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	5.5E-05	9.1E+01	2.2E-03
100-D-48:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1223.1	5.0E+03	2.5E-01	7.9E+05	1.6E-03
100-D-48:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.6E-06	6.4E+03	7.8E-05
100-D-48:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.4	1.6E+04	2.6E-05	5.2E+03	8.0E-05
100-D-48:2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	4.1E-05	9.2E+02	9.9E-05
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	9.0E-06	8.1E+02	6.8E-05
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.1	1.5E+04	7.8E-06	1.7E+03	6.6E-05
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608.3	No Value	--	1.3E+06	4.9E-04
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	2.0E-06	6.3E+03	4.0E-06
100-D-48:2_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.0E-04	--	4.1E-04
100-D-48:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1414.7	5.0E+03	2.8E-01	7.9E+05	1.8E-03
100-D-48:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.3E-06	6.4E+03	7.5E-05
100-D-48:2_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.3E-06	4.4E+03	8.0E-06
100-D-48:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.0E-05	5.2E+03	9.2E-05
100-D-48:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.9	2.2E+03	4.0E-04	9.2E+02	9.6E-04
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	1.6E-05	8.1E+02	1.2E-04
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.6	1.5E+04	3.8E-05	1.7E+03	3.2E-04
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.2	1.3E+04	1.6E-05	1.6E+03	1.2E-04
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	3.6E-06	6.3E+03	7.3E-06
100-D-48:2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	5.7E-04	--	3.6E-03
100-D-48:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	4.9E-05	9.1E+01	1.9E-03
100-D-48:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1496.1	5.0E+03	3.0E-01	7.9E+05	1.9E-03
100-D-48:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.8E-06	6.4E+03	8.0E-05
100-D-48:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.1E-06	4.4E+03	6.9E-06
100-D-48:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.2E-05	5.2E+03	9.8E-05
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.1	2.2E+04	2.4E-06	4.8E+03	1.1E-05
100-D-48:3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	9.4E-05	9.2E+02	2.2E-04
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.0	6.1E+03	6.5E-06	8.1E+02	5.0E-05
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.7E-05	1.7E+03	1.4E-04

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.4	1.8E+04	2.1E-05	6.0E+03	6.2E-05
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	1.3E+04	1.9E-04	6.3E+03	3.9E-04
100-D-48:3_Overburden	Rad	Rads SOF	---	pCi/g	--	--	3.7E-04	--	1.0E-03
100-D-48:3_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1278.0	5.0E+03	2.6E-01	7.9E+05	1.6E-03
100-D-48:3_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.1E-06	6.4E+03	7.4E-05
100-D-48:3_Overburden	Rad	Uranium-238	U-238	pCi/g	0.4	1.6E+04	2.7E-05	5.2E+03	8.3E-05
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.1	2.2E+04	2.5E-06	4.8E+03	1.1E-05
100-D-48:3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.8	2.2E+03	3.6E-04	9.2E+02	8.5E-04
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.1	1.5E+04	9.1E-06	1.7E+03	7.7E-05
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802.0	No Value	--	1.3E+06	6.4E-04
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.1	1.3E+04	4.8E-06	6.3E+03	9.8E-06
100-D-48:3_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.2E-03	--	3.1E-02
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	3.6E+03	7.5E-04	9.1E+01	3.0E-02
100-D-48:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1498.8	5.0E+03	3.0E-01	7.9E+05	1.9E-03
100-D-48:3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.9E-06	6.4E+03	8.0E-05
100-D-48:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.2E-05	5.2E+03	9.8E-05
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.0	2.2E+04	1.4E-06	4.8E+03	6.0E-06
100-D-48:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.4	2.2E+03	2.0E-04	9.2E+02	4.7E-04
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.0	6.1E+03	7.0E-06	8.1E+02	5.3E-05
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.3	1.5E+04	1.9E-05	1.7E+03	1.6E-04
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1900.0	No Value	--	1.3E+06	1.5E-03
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	2.2E-06	6.3E+03	4.4E-06
100-D-48:4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.9E-04	--	5.7E-03
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.4	3.6E+03	1.2E-04	9.1E+01	4.9E-03
100-D-48:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1596.2	5.0E+03	3.2E-01	7.9E+05	2.0E-03
100-D-48:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.5E-06	6.4E+03	7.7E-05
100-D-48:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.4E-05	5.2E+03	1.0E-04
100-D-49:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	9.0E-05	9.2E+02	2.1E-04
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.7E-05	1.7E+03	1.4E-04
100-D-49:2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.4E-04	--	5.1E-04
100-D-49:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1062.8	5.0E+03	2.1E-01	7.9E+05	1.4E-03
100-D-49:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.4	5.2E+04	8.3E-06	6.4E+03	6.7E-05
100-D-49:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	3.3E-06	4.4E+03	2.0E-05
100-D-49:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.4	1.6E+04	2.3E-05	5.2E+03	6.9E-05
100-D-49:3_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	4.8E-05	--	2.0E-04
100-D-49:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1762.3	5.0E+03	3.5E-01	7.9E+05	2.2E-03
100-D-49:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	1.0E-05	6.4E+03	8.2E-05
100-D-49:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.8E-05	5.2E+03	1.2E-04
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170.0	4.0E+04	4.3E-03	1.5E+03	1.2E-01
100-D-49:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.5	2.2E+03	2.1E-04	9.2E+02	4.9E-04
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	9.4E-06	8.1E+02	7.2E-05
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	1.5E+04	1.0E-04	1.7E+03	8.5E-04
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.2	1.3E+04	1.6E-05	1.6E+03	1.3E-04
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21359.3	5.0E+04	4.3E-01	3.6E+04	6.0E-01
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33.0	1.0E+02	3.3E-01	1.9E+03	1.8E-02
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.1	1.3E+04	5.4E-06	6.3E+03	1.1E-05
100-D-49:4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.8E-04	--	1.7E-03
100-D-49:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1458.3	5.0E+03	2.9E-01	7.9E+05	1.9E-03
100-D-49:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.4E-06	6.4E+03	7.6E-05
100-D-49:4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	2.0E-06	4.4E+03	1.2E-05
100-D-49:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.1E-05	5.2E+03	9.5E-05
100-D-50:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2500.0	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-50:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69600.0	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-50:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	419.0	1.0E+04	4.2E-02	1.4E+04	3.0E-02
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	811.0	5.0E+02	**1.6E+00**	1.3E+05	6.1E-03
100-D-50:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88.0	4.0E+03	2.2E-02	1.6E+03	5.4E-02
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7400.0	4.0E+02	**1.9E+01**	3.8E+04	1.9E-01
100-D-50:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6400.0	1.3E+04	4.9E-01	1.1E+05	5.7E-02
100-D-50:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14500.0	5.0E+04	2.9E-01	1.1E+05	1.4E-01
100-D-50:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3500.0	5.0E+04	7.0E-02	3.6E+04	9.8E-02
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271000.0	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
100-D-50:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	243.0	2.0E+03	1.2E-01	1.4E+04	1.7E-02
100-D-50:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9200.0	3.0E+04	3.1E-01	3.3E+04	2.8E-01
100-D-50:5_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.5	5.0E+03	3.1E-04	7.9E+05	2.0E-06
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34900.0	2.0E+03	**1.8E+01**	3.1E+04	**1.1E+00**
100-D-50:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	32900.0	5.0E+04	6.6E-01	6.8E+04	4.9E-01
100-D-52_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68900.0	3.3E+05	2.1E-01	1.3E+06	5.2E-02
100-D-52_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.9E-05	9.2E+02	7.0E-05
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7400.0	4.0E+02	**1.9E+01**	3.8E+04	1.9E-01
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.4	1.5E+04	2.5E-05	1.7E+03	2.1E-04
100-D-52_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4300.0	5.0E+04	8.6E-02	3.6E+04	1.2E-01
100-D-52_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.9E-05	--	4.7E-04
100-D-52_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1646.2	5.0E+03	3.3E-01	7.9E+05	2.1E-03
100-D-52_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.8E-06	6.4E+03	7.9E-05
100-D-52_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.5E-05	5.2E+03	1.1E-04
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1200.0	5.0E+03	2.4E-01	6.0E+03	2.0E-01
100-D-56:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3522.1	1.0E+04	3.5E-01	1.9E+05	1.9E-02
100-D-56:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	70319.2	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-56:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	570.1	1.0E+04	5.7E-02	1.4E+04	4.1E-02
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5633.3	5.0E+02	**1.1E+01**	1.3E+05	4.2E-02
100-D-56:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	189.4	4.0E+03	4.7E-02	1.6E+03	1.2E-01
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10203.9	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
100-D-56:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8319.8	1.3E+04	6.4E-01	1.1E+05	7.5E-02
100-D-56:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16173.8	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3300.0	No Value	--	2.3E+06	1.5E-03
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271.1	No Value	--	1.3E+06	2.2E-04
100-D-56:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9648.9	5.0E+04	1.9E-01	3.6E+04	2.7E-01
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	327758.0	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75.0	1.0E+02	7.5E-01	1.9E+03	4.0E-02
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950.0	2.0E+03	4.8E-01	1.4E+04	6.8E-02
100-D-56:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11052.7	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-56:1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	22647.8	No Value	--	3.4E+08	6.7E-05
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4080.0	No Value	--	3.4E+08	1.2E-05
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2100.0	5.2E+02	**4.0E+00**	1.9E+03	**1.1E+00**
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58592.6	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	66961.7	5.0E+04	**1.3E+00**	6.8E+04	9.9E-01
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1100.0	5.0E+03	2.2E-01	6.0E+03	1.8E-01
100-D-56:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2560.1	1.0E+04	2.6E-01	1.9E+05	1.4E-02
100-D-56:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	59734.2	3.3E+05	1.8E-01	1.3E+06	4.5E-02
100-D-56:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	496.5	1.0E+04	5.0E-02	1.4E+04	3.6E-02
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1600.0	5.0E+02	**3.2E+00**	1.3E+05	1.2E-02
100-D-56:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	195.0	4.0E+03	4.9E-02	1.6E+03	1.2E-01
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10457.3	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
100-D-56:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7299.9	1.3E+04	5.6E-01	1.1E+05	6.6E-02
100-D-56:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14186.5	5.0E+04	2.8E-01	1.1E+05	1.3E-01
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280.0	No Value	--	1.3E+06	2.3E-04
100-D-56:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4079.8	5.0E+04	8.2E-02	3.6E+04	1.2E-01
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	290500.5	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20.0	1.0E+02	2.0E-01	1.9E+03	1.1E-02
100-D-56:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10800.1	3.0E+04	3.6E-01	3.3E+04	3.3E-01
100-D-56:1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	29400.0	No Value	--	3.4E+08	8.6E-05
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1700.0	5.2E+02	**3.3E+00**	1.9E+03	9.0E-01
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49162.0	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52499.4	5.0E+04	**1.1E+00**	6.8E+04	7.7E-01
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1000.0	5.0E+03	2.0E-01	6.0E+03	1.7E-01
100-D-56:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3200.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-56:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60900.0	3.3E+05	1.9E-01	1.3E+06	4.6E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-56:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	550.0	1.0E+04	5.5E-02	1.4E+04	3.9E-02
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1800.0	5.0E+02	**3.6E+00**	1.3E+05	1.4E-02
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11800.0	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-56:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7600.0	1.3E+04	5.9E-01	1.1E+05	6.8E-02
100-D-56:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14600.0	5.0E+04	2.9E-01	1.1E+05	1.4E-01
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280.0	No Value	--	1.3E+06	2.3E-04
100-D-56:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5000.0	5.0E+04	1.0E-01	3.6E+04	1.4E-01
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	339000.0	2.2E+05	**1.5E+00**	5.8E+06	5.9E-02
100-D-56:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10.0	1.0E+02	1.0E-01	1.9E+03	5.4E-03
100-D-56:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13100.0	3.0E+04	4.4E-01	3.3E+04	4.0E-01
100-D-56:1_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	8830.0	No Value	--	3.4E+08	2.6E-05
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240.0	2.0E+03	1.2E-01	5.0E+04	4.8E-03
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51100.0	2.0E+03	**2.6E+01**	3.1E+04	**1.6E+00**
100-D-56:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45900.0	5.0E+04	9.2E-01	6.8E+04	6.8E-01
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500.0	5.0E+03	1.0E-01	6.0E+03	8.4E-02
100-D-56:2_Overburden_4	non-Rad	Arsenic	7440-38-2	ug/kg	3421.3	1.0E+04	3.4E-01	1.9E+05	1.8E-02
100-D-56:2_Overburden_4	non-Rad	Barium	7440-39-3	ug/kg	71232.3	3.3E+05	2.2E-01	1.3E+06	5.4E-02
100-D-56:2_Overburden_4	non-Rad	Beryllium	7440-41-7	ug/kg	983.6	1.0E+04	9.8E-02	1.4E+04	7.1E-02
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	ug/kg	1250.0	5.0E+02	**2.5E+00**	1.3E+05	9.4E-03
100-D-56:2_Overburden_4	non-Rad	Cadmium	7440-43-9	ug/kg	120.9	4.0E+03	3.0E-02	1.6E+03	7.4E-02
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	ug/kg	17678.2	4.0E+02	**4.4E+01**	3.8E+04	4.6E-01
100-D-56:2_Overburden_4	non-Rad	Cobalt	7440-48-4	ug/kg	7597.3	1.3E+04	5.8E-01	1.1E+05	6.8E-02
100-D-56:2_Overburden_4	non-Rad	Copper	7440-50-8	ug/kg	15676.5	5.0E+04	3.1E-01	1.1E+05	1.5E-01
100-D-56:2_Overburden_4	non-Rad	Fluoride	16984-48-8	ug/kg	1700.0	No Value	--	2.3E+06	7.5E-04
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371.0	No Value	--	1.3E+06	3.0E-04
100-D-56:2_Overburden_4	non-Rad	Lead	7439-92-1	ug/kg	4232.2	5.0E+04	8.5E-02	3.6E+04	1.2E-01
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	ug/kg	311403.9	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
100-D-56:2_Overburden_4	non-Rad	Mercury	7439-97-6	ug/kg	11.1	1.0E+02	1.1E-01	1.9E+03	5.9E-03
100-D-56:2_Overburden_4	non-Rad	Molybdenum	7439-98-7	ug/kg	350.0	2.0E+03	1.8E-01	1.4E+04	2.5E-02
100-D-56:2_Overburden_4	non-Rad	Nickel	7440-02-0	ug/kg	11137.9	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1187.7	No Value	--	No Value	--
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638.1	No Value	--	No Value	--
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	ug/kg	56979.8	2.0E+03	**2.9E+01**	3.1E+04	**1.8E+00**
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	ug/kg	56993.2	5.0E+04	**1.1E+00**	6.8E+04	8.4E-01
100-D-56:2_Overburden_5	non-Rad	Arsenic	7440-38-2	ug/kg	2947.3	1.0E+04	3.0E-01	1.9E+05	1.6E-02
100-D-56:2_Overburden_5	non-Rad	Barium	7440-39-3	ug/kg	67670.4	3.3E+05	2.1E-01	1.3E+06	5.1E-02
100-D-56:2_Overburden_5	non-Rad	Beryllium	7440-41-7	ug/kg	1271.0	1.0E+04	1.3E-01	1.4E+04	9.1E-02
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	ug/kg	1407.3	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
100-D-56:2_Overburden_5	non-Rad	Cadmium	7440-43-9	ug/kg	86.0	4.0E+03	2.2E-02	1.6E+03	5.3E-02
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	ug/kg	16179.2	4.0E+02	**4.0E+01**	3.8E+04	4.2E-01
100-D-56:2_Overburden_5	non-Rad	Cobalt	7440-48-4	ug/kg	7546.6	1.3E+04	5.8E-01	1.1E+05	6.8E-02
100-D-56:2_Overburden_5	non-Rad	Copper	7440-50-8	ug/kg	15393.1	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-56:2_Overburden_5	non-Rad	Fluoride	16984-48-8	ug/kg	1091.3	No Value	--	2.3E+06	4.8E-04
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223.1	No Value	--	1.3E+06	1.8E-04
100-D-56:2_Overburden_5	non-Rad	Lead	7439-92-1	ug/kg	4437.6	5.0E+04	8.9E-02	3.6E+04	1.3E-01
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	ug/kg	306865.5	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	20.9	1.0E+02	2.1E-01	1.9E+03	1.1E-02
100-D-56:2_Overburden_5	non-Rad	Nickel	7440-02-0	ug/kg	10691.8	3.0E+04	3.6E-01	3.3E+04	3.3E-01
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1534.8	No Value	--	No Value	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492.0	No Value	--	No Value	--
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	ug/kg	52528.4	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
100-D-56:2_Overburden_5	non-Rad	Zinc	7440-66-6	ug/kg	41329.7	5.0E+04	8.3E-01	6.8E+04	6.1E-01
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493.0	No Value	--	1.3E+06	4.0E-04
100-D-56:2_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4000.0	1.0E+04	4.0E-01	1.9E+05	2.1E-02
100-D-56:2_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	65000.0	3.3E+05	2.0E-01	1.3E+06	4.9E-02
100-D-56:2_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1400.0	1.0E+04	1.4E-01	1.4E+04	1.0E-01
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	11000.0	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
100-D-56:2_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8300.0	1.3E+04	6.4E-01	1.1E+05	7.4E-02
100-D-56:2_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	16000.0	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3400.0	No Value	--	2.3E+06	1.5E-03
100-D-56:2_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	4200.0	5.0E+04	8.4E-02	3.6E+04	1.2E-01
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	310000.0	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
100-D-56:2_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280.0	2.0E+03	1.4E-01	1.4E+04	2.0E-02
100-D-56:2_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	11000.0	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1300.0	No Value	--	No Value	--
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60000.0	2.0E+03	**3.0E+01**	3.1E+04	**1.9E+00**
100-D-56:2_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	42000.0	5.0E+04	8.4E-01	6.8E+04	6.2E-01
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420.0	5.0E+03	8.4E-02	6.0E+03	7.0E-02
100-D-56:2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3208.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-56:2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62220.2	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-D-56:2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	405.0	1.0E+04	4.1E-02	1.4E+04	2.9E-02
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1525.0	5.0E+02	**3.1E+00**	1.3E+05	1.2E-02
100-D-56:2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	65.2	4.0E+03	1.6E-02	1.6E+03	4.0E-02
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10823.6	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
100-D-56:2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7635.7	1.3E+04	5.9E-01	1.1E+05	6.9E-02
100-D-56:2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14188.3	5.0E+04	2.8E-01	1.1E+05	1.3E-01
100-D-56:2_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1750.0	No Value	--	2.3E+06	7.7E-04
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244.0	No Value	--	1.3E+06	2.0E-04
100-D-56:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3871.9	5.0E+04	7.7E-02	3.6E+04	1.1E-01
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	306134.3	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-D-56:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.7	1.0E+02	9.7E-02	1.9E+03	5.2E-03
100-D-56:2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10387.8	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	902.5	No Value	--	No Value	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513.3	No Value	--	No Value	--
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	56965.6	2.0E+03	**2.9E+01**	3.1E+04	**1.8E+00**
100-D-56:2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41374.7	5.0E+04	8.3E-01	6.8E+04	6.1E-01
100-D-56:2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3810.3	1.0E+04	3.8E-01	1.9E+05	2.0E-02
100-D-56:2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	59233.6	3.3E+05	1.8E-01	1.3E+06	4.5E-02
100-D-56:2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	328.0	1.0E+04	3.3E-02	1.4E+04	2.4E-02
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1100.0	5.0E+02	**2.2E+00**	1.3E+05	8.3E-03
100-D-56:2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	84.3	4.0E+03	2.1E-02	1.6E+03	5.2E-02
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12515.2	4.0E+02	**3.1E+01**	3.8E+04	3.3E-01
100-D-56:2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6535.8	1.3E+04	5.0E-01	1.1E+05	5.9E-02
100-D-56:2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13634.9	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-D-56:2_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1708.3	No Value	--	2.3E+06	7.5E-04
100-D-56:2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3413.8	5.0E+04	6.8E-02	3.6E+04	9.6E-02
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	281887.0	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
100-D-56:2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	9.0	1.0E+02	9.0E-02	1.9E+03	4.8E-03
100-D-56:2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11048.2	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3478.0	No Value	--	No Value	--
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45416.4	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
100-D-56:2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36899.0	5.0E+04	7.4E-01	6.8E+04	5.4E-01
100-D-56:2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	3169.9	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-56:2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	67570.4	3.3E+05	2.1E-01	1.3E+06	5.1E-02
100-D-56:2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	1164.3	1.0E+04	1.2E-01	1.4E+04	8.4E-02
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1605.4	5.0E+02	**3.2E+00**	1.3E+05	1.2E-02
100-D-56:2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	96.0	4.0E+03	2.4E-02	1.6E+03	5.9E-02
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9261.0	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-56:2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	8172.6	1.3E+04	6.3E-01	1.1E+05	7.3E-02
100-D-56:2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	15430.6	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-D-56:2_Shallow_3	non-Rad	Fluoride	16984-48-8	ug/kg	1430.8	No Value	--	2.3E+06	6.3E-04
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659.0	No Value	--	1.3E+06	5.3E-04
100-D-56:2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	5446.1	5.0E+04	1.1E-01	3.6E+04	1.5E-01
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	322267.0	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-D-56:2_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	11.1	1.0E+02	1.1E-01	1.9E+03	6.0E-03
100-D-56:2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10049.4	3.0E+04	3.4E-01	3.3E+04	3.1E-01
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1431.3	No Value	--	No Value	--

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	674.6	No Value	--	No Value	--
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64761.6	2.0E+03	3.2E+01	3.1E+04	2.1E+00
100-D-56:2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	46651.5	5.0E+04	9.3E-01	6.8E+04	6.9E-01
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390.0	5.0E+03	7.8E-02	6.0E+03	6.5E-02
100-D-56:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3200.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
100-D-56:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70500.0	3.3E+05	2.1E-01	1.3E+06	5.3E-02
100-D-56:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	140.0	1.0E+04	1.4E-02	1.4E+04	1.0E-02
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1000.0	5.0E+02	2.0E+00	1.3E+05	7.5E-03
100-D-56:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	93.0	4.0E+03	2.3E-02	1.6E+03	5.7E-02
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29300.0	4.0E+02	7.3E+01	3.8E+04	7.7E-01
100-D-56:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8300.0	1.3E+04	6.4E-01	1.1E+05	7.4E-02
100-D-56:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14800.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662.0	No Value	--	1.3E+06	5.3E-04
100-D-56:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2700.0	5.0E+04	5.4E-02	3.6E+04	7.6E-02
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300000.0	2.2E+05	1.4E+00	5.8E+06	5.2E-02
100-D-56:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.9	1.0E+02	7.9E-02	1.9E+03	4.2E-03
100-D-56:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300.0	2.0E+03	1.5E-01	1.4E+04	2.2E-02
100-D-56:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10600.0	3.0E+04	3.5E-01	3.3E+04	3.3E-01
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57900.0	2.0E+03	2.9E+01	3.1E+04	1.9E+00
100-D-56:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39400.0	5.0E+04	7.9E-01	6.8E+04	5.8E-01
100-D-56:2_Staging pile area footprint_focused	non-Rad	Arsenic	7440-38-2	ug/kg	3600.0	1.0E+04	3.6E-01	1.9E+05	1.9E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Barium	7440-39-3	ug/kg	79000.0	3.3E+05	2.4E-01	1.3E+06	6.0E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84.0	1.8E+04	4.7E-03	7.6E+04	1.1E-03
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100.0	1.8E+04	5.6E-03	3.9E+04	2.6E-03
100-D-56:2_Staging pile area footprint_focused	non-Rad	Beryllium	7440-41-7	ug/kg	490.0	1.0E+04	4.9E-02	1.4E+04	3.5E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82.0	1.0E+05	8.2E-04	4.5E+04	1.8E-03
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	ug/kg	1500.0	5.0E+02	3.0E+00	1.3E+05	1.1E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cadmium	7440-43-9	ug/kg	88.0	4.0E+03	2.2E-02	1.6E+03	5.4E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	ug/kg	11000.0	4.0E+02	2.8E+01	3.8E+04	2.9E-01
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29.0	1.8E+04	1.6E-03	4.5E+04	6.5E-04
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cobalt	7440-48-4	ug/kg	7500.0	1.3E+04	5.8E-01	1.1E+05	6.7E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Copper	7440-50-8	ug/kg	15000.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-56:2_Staging pile area footprint_focused	non-Rad	Lead	7439-92-1	ug/kg	4400.0	5.0E+04	8.8E-02	3.6E+04	1.2E-01
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	ug/kg	350000.0	2.2E+05	1.6E+00	5.8E+06	6.0E-02
100-D-56:2_Staging pile area footprint_focused	non-Rad	Mercury	7439-97-6	ug/kg	9.7	1.0E+02	9.7E-02	1.9E+03	5.2E-03
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nickel	7440-02-0	ug/kg	11000.0	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	590.0	No Value	--	No Value	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15.0	1.8E+04	8.3E-04	6.0E+05	2.5E-05
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	ug/kg	55000.0	2.0E+03	2.8E+01	3.1E+04	1.8E+00
100-D-56:2_Staging pile area footprint_focused	non-Rad	Zinc	7440-66-6	ug/kg	44000.0	5.0E+04	8.8E-01	6.8E+04	6.5E-01
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	No Value	--	4.0E+02	3.3E-03
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	2.9E+04	1.8E-04	6.8E+05	7.7E-06
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491.3	5.0E+03	9.8E-02	6.0E+03	8.2E-02
100-D-61_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3005.7	1.0E+04	3.0E-01	1.9E+05	1.6E-02
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158794.1	3.3E+05	4.8E-01	1.3E+06	1.2E-01
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16.0	1.8E+04	8.9E-04	6.4E+04	2.5E-04
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	1.8E+04	1.9E-04	7.6E+04	4.5E-05
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	1.8E+04	3.1E-04	3.9E+04	1.4E-04
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	1.8E+04	2.0E-04	3.9E+04	9.2E-05
100-D-61_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	864.6	1.0E+04	8.7E-02	1.4E+04	6.2E-02
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11172.2	5.0E+02	2.2E+01	1.3E+05	8.4E-02
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9565.4	4.0E+02	2.4E+01	3.8E+04	2.5E-01
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	14.6	1.8E+04	8.1E-04	4.5E+04	3.3E-04
100-D-61_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9407.1	1.3E+04	7.2E-01	1.1E+05	8.4E-02
100-D-61_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17830.9	5.0E+04	3.6E-01	1.1E+05	1.7E-01
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	1.8E+04	8.3E-05	4.4E+04	3.4E-05
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24.4	1.8E+04	1.4E-03	8.4E+05	2.9E-05
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	2.9E+04	9.0E-05	1.8E+05	1.5E-05
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169.0	No Value	--	1.3E+06	1.4E-04
100-D-61_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4458.9	5.0E+04	8.9E-02	3.6E+04	1.3E-01
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	347566.5	2.2E+05	1.6E+00	5.8E+06	6.0E-02
100-D-61_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13.0	1.0E+02	1.3E-01	1.9E+03	7.0E-03
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516.3	2.0E+03	2.6E-01	1.4E+04	3.7E-02
100-D-61_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12720.0	3.0E+04	4.2E-01	3.3E+04	3.9E-01
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43.0	1.8E+04	2.4E-03	6.0E+05	7.2E-05
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1040.3	5.2E+02	2.0E+00	1.9E+03	5.5E-01
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11436.4	No Value	--	No Value	--
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63681.6	2.0E+03	3.2E+01	3.1E+04	2.1E+00
100-D-61_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45816.3	5.0E+04	9.2E-01	6.8E+04	6.8E-01
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	No Value	--	3.1E+06	5.3E-07
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.9	No Value	--	8.8E+02	9.8E-04
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15.1	No Value	--	No Value	--
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	No Value	--	No Value	--
100-D-7_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	1524.0	1.0E+04	1.5E-01	1.9E+05	8.0E-03
100-D-7_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	59795.2	3.3E+05	1.8E-01	1.3E+06	4.5E-02
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30.0	1.8E+04	1.7E-03	3.9E+04	7.7E-04
100-D-7_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	126.1	1.0E+04	1.3E-02	1.4E+04	9.0E-03
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1900.0	5.0E+02	3.8E+00	1.3E+05	1.4E-02
100-D-7_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	45.7	4.0E+03	1.1E-02	1.6E+03	2.8E-02
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7035.4	4.0E+02	1.8E+01	3.8E+04	1.8E-01
100-D-7_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7813.9	1.3E+04	6.0E-01	1.1E+05	7.0E-02
100-D-7_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	11689.2	5.0E+04	2.3E-01	1.1E+05	1.1E-01
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130.0	1.8E+04	7.2E-03	4.4E+04	3.0E-03
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68.0	1.0E+05	6.8E-04	No Value	--
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.5	No Value	--	7.1E+02	7.3E-04
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.8	No Value	--	No Value	--
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184.0	No Value	--	1.3E+06	1.5E-04
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29.0	1.8E+04	1.6E-03	3.6E+04	8.1E-04
100-D-7_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3490.5	5.0E+04	7.0E-02	3.6E+04	9.8E-02
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	290471.9	2.2E+05	1.3E+00	5.8E+06	5.0E-02
100-D-7_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.5	1.0E+02	6.5E-02	1.9E+03	3.5E-03
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10.0	No Value	--	1.7E+05	6.0E-05
100-D-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	381.7	2.0E+03	1.9E-01	1.4E+04	2.7E-02
100-D-7_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9120.4	3.0E+04	3.0E-01	3.3E+04	2.8E-01
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834.3	5.2E+02	1.6E+00	1.9E+03	4.4E-01
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.9	2.0E+05	4.6E-06	5.2E+06	1.8E-07
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1385.8	2.0E+05	6.9E-03	3.6E+08	3.9E-06
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1725.0	No Value	--	No Value	--
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	70959.8	2.0E+03	3.6E+01	3.1E+04	2.3E+00
100-D-7_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43436.8	5.0E+04	8.7E-01	6.8E+04	6.4E-01
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.6	No Value	--	4.0E+02	1.4E-03
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.9	No Value	--	8.8E+02	9.9E-04
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10.0	No Value	--	No Value	--
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.2	No Value	--	No Value	--
100-D-7_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2073.3	1.0E+04	2.1E-01	1.9E+05	1.1E-02
100-D-7_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	81722.6	3.3E+05	2.5E-01	1.3E+06	6.2E-02
100-D-7_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	142.5	1.0E+04	1.4E-02	1.4E+04	1.0E-02
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90.0	1.0E+05	9.0E-04	4.5E+04	2.0E-03
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1533.0	5.0E+02	3.1E+00	1.3E+05	1.2E-02
100-D-7_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	85.0	4.0E+03	2.1E-02	1.6E+03	5.2E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	9024.2	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-7_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8014.7	1.3E+04	6.2E-01	1.1E+05	7.2E-02
100-D-7_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	11765.7	5.0E+04	2.4E-01	1.1E+05	1.1E-01
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.6	No Value	--	7.1E+02	8.3E-04
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.9	No Value	--	No Value	--
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236.1	No Value	--	1.3E+06	1.9E-04
100-D-7_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4003.0	5.0E+04	8.0E-02	3.6E+04	1.1E-01
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	343655.2	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-D-7_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	12.3	1.0E+02	1.2E-01	1.9E+03	6.6E-03
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	No Value	--	1.7E+05	1.3E-05
100-D-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	352.9	2.0E+03	1.8E-01	1.4E+04	2.5E-02
100-D-7_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9972.8	3.0E+04	3.3E-01	3.3E+04	3.1E-01
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410.0	2.0E+03	2.1E-01	5.0E+04	8.3E-03
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1700.0	No Value	--	No Value	--
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	63912.6	2.0E+03	**3.2E+01**	3.1E+04	**2.1E+00**
100-D-7_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46278.7	5.0E+04	9.3E-01	6.8E+04	6.8E-01
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	No Value	--	No Value	--
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	No Value	--	No Value	--
100-D-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1900.0	1.0E+04	1.9E-01	1.9E+05	1.0E-02
100-D-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69300.0	3.3E+05	2.1E-01	1.3E+06	5.2E-02
100-D-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180.0	1.0E+04	1.8E-02	1.4E+04	1.3E-02
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1200.0	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
100-D-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	63.0	4.0E+03	1.6E-02	1.6E+03	3.9E-02
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9000.0	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7600.0	1.3E+04	5.9E-01	1.1E+05	6.8E-02
100-D-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14400.0	5.0E+04	2.9E-01	1.1E+05	1.3E-01
100-D-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3300.0	5.0E+04	6.6E-02	3.6E+04	9.3E-02
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	303000.0	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
100-D-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	8.8	1.0E+02	8.8E-02	1.9E+03	4.7E-03
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10.0	No Value	--	1.7E+05	6.0E-05
100-D-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11600.0	3.0E+04	3.9E-01	3.3E+04	3.6E-01
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63200.0	2.0E+03	**3.2E+01**	3.1E+04	**2.0E+00**
100-D-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42000.0	5.0E+04	8.4E-01	6.8E+04	6.2E-01
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.8	No Value	--	4.0E+02	2.1E-03
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	No Value	--	8.8E+02	3.0E-03
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	No Value	--	No Value	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor HI	---	ug/kg	--	--	3.9E-03	--	3.5E-01
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	4.0E+04	2.5E-03	3.3E+02	3.1E-01
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	4.0E+04	2.0E-04	1.5E+03	5.4E-03
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	4.0E+04	1.2E-03	1.5E+03	3.3E-02
100-D-7_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	1,625	1.0E+04	1.6E-01	1.9E+05	8.6E-03
100-D-7_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	72,000	3.3E+05	2.2E-01	1.3E+06	5.4E-02
100-D-7_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	155	1.0E+04	1.6E-02	1.4E+04	1.1E-02
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	1.0E+05	1.1E-02	4.5E+04	2.4E-02
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,719	5.0E+02	**3.4E+00**	1.3E+05	1.3E-02
100-D-7_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	103	4.0E+03	2.6E-02	1.6E+03	6.3E-02
100-D-7_Staging pile area footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.056	2.2E+03	2.5E-05	9.2E+02	6.0E-05
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,443	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
100-D-7_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,081	1.3E+04	4.7E-01	1.1E+05	5.5E-02
100-D-7_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	16,451	5.0E+04	3.3E-01	1.1E+05	1.5E-01
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	1.0E+05	4.5E-03	No Value	--
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	No Value	--	1.3E+06	2.3E-04
100-D-7_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	5,630	5.0E+04	1.1E-01	3.6E+04	1.6E-01
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	279,739	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	1.0E+02	**3.0E+00**	1.9E+03	1.6E-01
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	No Value	--	1.7E+05	1.0E-05
100-D-7_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	2.0E+03	1.7E-01	1.4E+04	2.4E-02
100-D-7_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	9,889	3.0E+04	3.3E-01	3.3E+04	3.0E-01
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	2.0E+03	3.6E-01	5.0E+04	1.4E-02
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	2.0E+05	3.6E-06	5.2E+06	1.4E-07
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	2.0E+05	1.1E-02	3.6E+08	6.0E-06
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	No Value	--	No Value	--
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	34,102	2.0E+03	**1.7E+01**	3.1E+04	**1.1E+00**
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	No Value	--	8.3E+05	1.2E-06
100-D-7_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,486	5.0E+04	8.1E-01	6.8E+04	6.0E-01
100-D-70_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	1.0E+04	1.8E-01	1.9E+05	9.5E-03
100-D-70_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,000	3.3E+05	3.0E-01	1.3E+06	7.5E-02
100-D-70_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	1.0E+04	2.5E-02	1.4E+04	1.8E-02
100-D-70_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	4.0E+03	3.3E-02	1.6E+03	8.0E-02
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-70_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	1.3E+04	6.5E-01	1.1E+05	7.6E-02
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	5.0E+04	**1.5E+00**	1.1E+05	6.9E-01
100-D-70_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,300	5.0E+04	1.5E-01	3.6E+04	2.1E-01
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	No Value	--	1.7E+05	2.2E-05
100-D-70_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	2.0E+03	2.0E-01	1.4E+04	2.8E-02
100-D-70_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,000	3.0E+04	4.7E-01	3.3E+04	4.3E-01
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	No Value	--	No Value	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	2.0E+05	1.0E-02	3.6E+08	5.6E-06
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	No Value	--	No Value	--
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	61,100	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	5.0E+04	**1.6E+00**	6.8E+04	**1.2E+00**
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	2.9E+04	3.5E-04	6.8E+05	1.5E-05
100-D-74_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	1.0E+04	1.5E-01	1.9E+05	7.9E-03
100-D-74_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	54,300	3.3E+05	1.7E-01	1.3E+06	4.1E-02
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	1.8E+04	6.1E-04	7.6E+04	1.4E-04
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	1.8E+04	6.1E-04	3.9E+04	2.8E-04
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	1.8E+04	4.9E-04	3.9E+04	2.3E-04
100-D-74_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	1.0E+04	1.2E-02	1.4E+04	8.6E-03
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	4.0E+02	**1.6E+01**	3.8E+04	1.7E-01
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	1.8E+04	8.9E-04	4.5E+04	3.6E-04
100-D-74_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	1.3E+04	6.4E-01	1.1E+05	7.4E-02
100-D-74_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-D-74_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	5.0E+04	4.6E-02	3.6E+04	6.5E-02
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	1.0E+02	1.7E-01	1.9E+03	9.1E-03
100-D-74_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	2.0E+03	1.6E-01	1.4E+04	2.3E-02
100-D-74_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	3.0E+04	3.2E-01	3.3E+04	2.9E-01
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	1.8E+04	2.2E-03	6.0E+05	6.7E-05
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
100-D-74_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,900	5.0E+04	8.2E-01	6.8E+04	6.0E-01
100-D-75:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	1.0E+04	2.0E-01	1.9E+05	1.1E-02
100-D-75:3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,500	3.3E+05	1.8E-01	1.3E+06	4.6E-02
100-D-75:3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	76	4.0E+03	1.9E-02	1.6E+03	4.7E-02
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
100-D-75:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,700	1.3E+04	6.7E-01	1.1E+05	7.8E-02
100-D-75:3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,000	5.0E+04	3.6E-01	1.1E+05	1.7E-01
100-D-75:3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	5.0E+04	1.0E-01	3.6E+04	1.4E-01
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	2.2E+05	**1.4E+00**	5.8E+06	5.1E-02
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	1.0E+02	1.7E-01	1.9E+03	9.1E-03

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-75:3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	350	2.0E+03	1.8E-01	1.4E+04	2.5E-02
100-D-75:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,100	3.0E+04	3.7E-01	3.3E+04	3.4E-01
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	No Value	--	No Value	--
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
100-D-75:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,600	5.0E+04	7.9E-01	6.8E+04	5.8E-01
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	2.0E+05	6.5E-03	3.6E+08	3.7E-06
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	No Value	--	No Value	--
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	4.0E+04	8.8E-05	1.5E+03	2.4E-03
100-D-82_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	1.0E+04	1.9E-01	1.9E+05	1.0E-02
100-D-82_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	27,800	3.3E+05	8.4E-02	1.3E+06	2.1E-02
100-D-82_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	93	1.0E+04	9.3E-03	1.4E+04	6.7E-03
100-D-82_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	49	4.0E+03	1.2E-02	1.6E+03	3.0E-02
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,300	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
100-D-82_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	1.3E+04	4.2E-01	1.1E+05	4.8E-02
100-D-82_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	8,700	5.0E+04	1.7E-01	1.1E+05	8.1E-02
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	5.0E+04	**2.7E+00**	3.6E+04	**3.8E+00**
100-D-82_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	164,000	2.2E+05	7.5E-01	5.8E+06	2.8E-02
100-D-82_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	2.0E+03	1.5E-01	1.4E+04	2.1E-02
100-D-82_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,900	3.0E+04	2.3E-01	3.3E+04	2.1E-01
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	17,800	2.0E+03	**8.9E+00**	3.1E+04	5.7E-01
100-D-82_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	37,500	5.0E+04	7.5E-01	6.8E+04	5.5E-01
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	5.0E+03	1.1E-01	6.0E+03	9.2E-02
100-D-83:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	1.0E+04	4.8E-01	1.9E+05	2.5E-02
100-D-83:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,400	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-D-83:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	1.0E+04	1.2E-02	1.4E+04	8.6E-03
100-D-83:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	52	4.0E+03	1.3E-02	1.6E+03	3.2E-02
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	4.0E+02	**2.0E+01**	3.8E+04	2.0E-01
100-D-83:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	1.3E+04	6.3E-01	1.1E+05	7.4E-02
100-D-83:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,400	5.0E+04	3.7E-01	1.1E+05	1.7E-01
100-D-83:4_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	No Value	--	2.3E+06	4.4E-04
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	No Value	--	1.3E+06	1.4E-04
100-D-83:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,600	5.0E+04	1.7E-01	3.6E+04	2.4E-01
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	1.0E+02	**9.5E+00**	1.9E+03	5.1E-01
100-D-83:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	2.0E+03	2.2E-01	1.4E+04	3.2E-02
100-D-83:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	3.0E+04	3.6E-01	3.3E+04	3.4E-01
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	No Value	--	No Value	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	No Value	--	No Value	--
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,100	2.0E+03	**3.8E+01**	3.1E+04	**2.4E+00**
100-D-83:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,100	5.0E+04	9.8E-01	6.8E+04	7.2E-01
100-D-84:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	1.0E+04	2.5E-01	1.9E+05	1.3E-02
100-D-84:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,700	3.3E+05	2.3E-01	1.3E+06	5.7E-02
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	1.8E+04	2.4E-04	6.4E+04	6.9E-05
100-D-84:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	1.0E+04	3.0E-02	1.4E+04	2.2E-02
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	1.0E+05	7.9E-04	4.5E+04	1.7E-03
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
100-D-84:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	43	4.0E+03	1.1E-02	1.6E+03	2.6E-02
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-D-84:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,800	1.3E+04	9.1E-01	1.1E+05	1.1E-01
100-D-84:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,200	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	1.0E+05	7.2E-04	No Value	--
100-D-84:1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	No Value	--	2.3E+06	4.8E-04
100-D-84:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	5.0E+04	8.8E-02	3.6E+04	1.2E-01
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	343,000	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	1.0E+02	**1.2E+00**	1.9E+03	6.4E-02
100-D-84:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	2.0E+03	2.0E-01	1.4E+04	2.8E-02
100-D-84:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	3.0E+04	3.9E-01	3.3E+04	3.6E-01
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	No Value	--	No Value	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	No Value	--	No Value	--
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	2.0E+03	**4.7E+01**	3.1E+04	**3.0E+00**
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,500	5.0E+04	**1.1E+00**	6.8E+04	7.7E-01
100-D-85:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	1.0E+04	1.1E-01	1.9E+05	5.8E-03
100-D-85:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,900	3.3E+05	1.6E-01	1.3E+06	4.1E-02
100-D-85:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	88	1.0E+04	8.8E-03	1.4E+04	6.3E-03
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,400	4.0E+02	**1.4E+01**	3.8E+04	1.4E-01
100-D-85:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	1.3E+04	5.9E-01	1.1E+05	6.8E-02
100-D-85:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	11,600	5.0E+04	2.3E-01	1.1E+05	1.1E-01
100-D-85:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	5.0E+04	3.6E-02	3.6E+04	5.1E-02
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
100-D-85:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	2.0E+03	2.0E-01	1.4E+04	2.8E-02
100-D-85:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	3.0E+04	3.2E-01	3.3E+04	2.9E-01
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
100-D-85:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,100	5.0E+04	8.0E-01	6.8E+04	5.9E-01
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	5.0E+03	9.6E-02	6.0E+03	8.0E-02
100-D-87_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,000	1.0E+04	7.0E-01	1.9E+05	3.7E-02
100-D-87_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	89,200	3.3E+05	2.7E-01	1.3E+06	6.7E-02
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	1.8E+04	2.5E-03	6.4E+04	7.0E-04
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	1.8E+04	3.1E-03	7.6E+04	7.2E-04
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	1.8E+04	6.7E-03	3.9E+04	3.1E-03
100-D-87_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	1.0E+04	1.8E-02	1.4E+04	1.3E-02
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	5.0E+02	**4.8E+00**	1.3E+05	1.8E-02
100-D-87_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	450	4.0E+03	1.1E-01	1.6E+03	2.8E-01
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,300	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	1.8E+04	3.6E-03	4.5E+04	1.4E-03
100-D-87_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	1.3E+04	5.9E-01	1.1E+05	6.8E-02
100-D-87_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,800	5.0E+04	3.4E-01	1.1E+05	1.6E-01
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	1.8E+04	2.3E-03	8.4E+05	4.9E-05
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	1.8E+04	2.0E-03	3.6E+04	1.0E-03
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	5.0E+04	3.9E-01	3.6E+04	5.4E-01
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	1.0E+02	1.6E-01	1.9E+03	8.6E-03
100-D-87_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	380	2.0E+03	1.9E-01	1.4E+04	2.7E-02
100-D-87_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	3.0E+04	3.9E-01	3.3E+04	3.6E-01
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	1.8E+04	3.1E-03	6.0E+05	9.2E-05
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,000	2.0E+03	**2.4E+01**	3.1E+04	**1.5E+00**
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	5.0E+04	**1.7E+00**	6.8E+04	**1.2E+00**
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	5.0E+03	1.0E-01	6.0E+03	8.5E-02
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	4.0E+04	7.3E-05	1.5E+03	2.0E-03
100-D-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	1.0E+04	2.1E-01	1.9E+05	1.1E-02
100-D-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	105,000	3.3E+05	3.2E-01	1.3E+06	7.9E-02
100-D-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	1.0E+04	2.7E-02	1.4E+04	1.9E-02
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	5.0E+02	**1.9E+00**	1.3E+05	7.0E-03
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,400	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
100-D-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,500	1.3E+04	8.9E-01	1.1E+05	1.0E-01
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	5.0E+04	5.8E-01	1.1E+05	2.7E-01
100-D-88_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,900	No Value	--	2.3E+06	8.3E-04
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	No Value	--	1.3E+06	2.4E-04
100-D-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	5.0E+04	8.8E-02	3.6E+04	1.2E-01
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	384,000	2.2E+05	**1.8E+00**	5.8E+06	6.6E-02
100-D-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	12	1.0E+02	1.2E-01	1.9E+03	6.4E-03
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	No Value	--	1.7E+05	1.2E-05
100-D-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	2.0E+03	1.5E-01	1.4E+04	2.2E-02
100-D-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	3.0E+04	3.5E-01	3.3E+04	3.2E-01
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	No Value	--	No Value	--

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	No Value	--	No Value	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	2.0E+05	3.2E-02	3.6E+08	1.8E-05
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	No Value	--	No Value	--
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	2.0E+03	**5.2E+01**	3.1E+04	**3.3E+00**
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	63,900	5.0E+04	**1.3E+00**	6.8E+04	9.4E-01
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	No Value	--	No Value	--
100-D-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,200	1.0E+04	1.2E-01	1.9E+05	6.3E-03
100-D-9_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	63,800	3.3E+05	1.9E-01	1.3E+06	4.8E-02
100-D-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	470	1.0E+04	4.7E-02	1.4E+04	3.4E-02
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	1.0E+05	2.9E-04	4.5E+04	6.4E-04
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	820	5.0E+02	**1.6E+00**	1.3E+05	6.2E-03
100-D-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	170	4.0E+03	4.3E-02	1.6E+03	1.0E-01
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	4.0E+02	**8.8E+00**	3.8E+04	9.2E-02
100-D-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	1.3E+04	6.6E-01	1.1E+05	7.7E-02
100-D-9_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,300	5.0E+04	2.9E-01	1.1E+05	1.3E-01
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	No Value	--	No Value	--
100-D-9_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,000	5.0E+04	4.0E-02	3.6E+04	5.6E-02
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	299,000	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	No Value	--	1.7E+05	4.8E-05
100-D-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	450	2.0E+03	2.3E-01	1.4E+04	3.2E-02
100-D-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	3.0E+04	3.0E-01	3.3E+04	2.8E-01
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
100-D-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,100	5.0E+04	8.6E-01	6.8E+04	6.4E-01
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	5.0E+03	9.0E-02	6.0E+03	7.5E-02
100-D-94_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	1.0E+04	2.1E-01	1.9E+05	1.1E-02
100-D-94_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,800	3.3E+05	1.8E-01	1.3E+06	4.5E-02
100-D-94_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	1.0E+04	2.0E-02	1.4E+04	1.4E-02
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
100-D-94_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,300	1.3E+04	4.9E-01	1.1E+05	5.7E-02
100-D-94_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,000	5.0E+04	2.4E-01	1.1E+05	1.1E-01
100-D-94_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	No Value	--	2.3E+06	4.8E-04
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	5.0E+04	4.9E-01	3.6E+04	6.9E-01
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	275,000	2.2E+05	**1.3E+00**	5.8E+06	4.7E-02
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	1.0E+02	**5.8E+00**	1.9E+03	3.1E-01
100-D-94_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	3.0E+04	3.3E-01	3.3E+04	3.1E-01
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	No Value	--	No Value	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	No Value	--	No Value	--
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,200	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
100-D-94_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,700	5.0E+04	7.7E-01	6.8E+04	5.7E-01
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	5.0E+03	9.3E-02	6.0E+03	7.7E-02
116-D-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	1.0E+04	2.7E-01	1.9E+05	1.4E-02
116-D-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,640	3.3E+05	2.1E-01	1.3E+06	5.3E-02
116-D-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	227	1.0E+04	2.3E-02	1.4E+04	1.6E-02
116-D-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,220	5.0E+02	**2.4E+00**	1.3E+05	9.2E-03
116-D-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	109	4.0E+03	2.7E-02	1.6E+03	6.7E-02
116-D-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.092	2.2E+03	4.1E-05	9.2E+02	9.9E-05
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,278	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
116-D-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,369	1.3E+04	6.4E-01	1.1E+05	7.5E-02
116-D-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,218	5.0E+04	3.0E-01	1.1E+05	1.4E-01
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	No Value	--	1.3E+06	1.7E-04
116-D-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,465	5.0E+04	6.9E-02	3.6E+04	9.7E-02
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	320,612	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
116-D-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	2.0E+03	1.9E-01	1.4E+04	2.7E-02
116-D-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,914	3.0E+04	3.6E-01	3.3E+04	3.4E-01
116-D-10_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.3E-05	--	2.8E-04
116-D-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1491.5	5.0E+03	3.0E-01	7.9E+05	1.9E-03
116-D-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	1.0E-05	6.4E+03	8.1E-05
116-D-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.2E-05	5.2E+03	9.7E-05
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67123.0	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
116-D-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44463.6	5.0E+04	8.9E-01	6.8E+04	6.6E-01
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484.0	5.0E+03	9.7E-02	6.0E+03	8.1E-02
116-D-10_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2037.2	1.0E+04	2.0E-01	1.9E+05	1.1E-02
116-D-10_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	60779.7	3.3E+05	1.8E-01	1.3E+06	4.6E-02
116-D-10_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	170.7	1.0E+04	1.7E-02	1.4E+04	1.2E-02
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	856.2	5.0E+02	**1.7E+00**	1.3E+05	6.4E-03
116-D-10_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	98.5	4.0E+03	2.5E-02	1.6E+03	6.1E-02
116-D-10_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.6E-05	9.2E+02	8.6E-05
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	5983.1	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
116-D-10_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	8902.1	1.3E+04	6.9E-01	1.1E+05	8.0E-02
116-D-10_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	13930.1	5.0E+04	2.8E-01	1.1E+05	1.3E-01
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168.4	No Value	--	1.3E+06	1.4E-04
116-D-10_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2893.8	5.0E+04	5.8E-02	3.6E+04	8.1E-02
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	318855.6	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15.0	1.0E+02	1.5E-01	1.9E+03	8.0E-03
116-D-10_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	414.2	2.0E+03	2.1E-01	1.4E+04	3.0E-02
116-D-10_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	8845.2	3.0E+04	3.0E-01	3.3E+04	2.7E-01
116-D-10_Staging Pile Area	Rad	Rads SOF	---	pCi/g	--	--	3.3E-04	--	1.0E-02
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	179.9	2.0E+03	9.0E-02	5.0E+04	3.6E-03
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.9	3.6E+03	2.5E-04	9.1E+01	9.8E-03
116-D-10_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1546.8	5.0E+03	3.1E-01	7.9E+05	2.0E-03
116-D-10_Staging Pile Area	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	1.1E-05	6.4E+03	8.6E-05
116-D-10_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.3E-05	5.2E+03	1.0E-04
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	76277.7	2.0E+03	**3.8E+01**	3.1E+04	**2.5E+00**
116-D-10_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	45859.1	5.0E+04	9.2E-01	6.8E+04	6.8E-01
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.2	2.2E+04	7.0E-06	4.8E+03	3.1E-05
116-D-1A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.8	2.2E+03	3.5E-04	9.2E+02	8.3E-04
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.3	1.5E+04	2.3E-05	1.7E+03	1.9E-04
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611.0	No Value	--	1.3E+06	4.9E-04
116-D-1A_Shallow	Rad	Rads SOF	---	pCi/g	--	--	5.0E-04	--	4.7E-03
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	8.8E-05	9.1E+01	3.5E-03
116-D-1A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1450.8	5.0E+03	2.9E-01	7.9E+05	1.9E-03
116-D-1A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.4E-06	6.4E+03	7.6E-05
116-D-1A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.1E-05	5.2E+03	9.5E-05
116-D-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.1E-05	9.2E+02	7.4E-05
116-D-2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.3E-05	--	2.6E-04
116-D-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1422.9	5.0E+03	2.9E-01	7.9E+05	1.8E-03
116-D-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	8.7E-05
116-D-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.2E-06	4.4E+03	7.3E-06
116-D-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.0E-05	5.2E+03	9.2E-05
116-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.3E-05	9.2E+02	5.4E-05
116-D-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	6.1E-05	--	2.2E-04
116-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1268.2	5.0E+03	2.5E-01	7.9E+05	1.6E-03
116-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.3E-06	6.4E+03	7.5E-05
116-D-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	2.2E-06	4.4E+03	1.4E-05
116-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.4	1.6E+04	2.7E-05	5.2E+03	8.1E-05
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12.2	2.9E+04	4.2E-04	6.8E+05	1.8E-05
116-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2147.4	1.0E+04	2.2E-01	1.9E+05	1.1E-02
116-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58353.9	3.3E+05	1.8E-01	1.3E+06	4.4E-02
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47.3	1.8E+04	2.6E-03	6.4E+04	7.4E-04
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37.1	1.8E+04	2.1E-03	7.6E+04	4.9E-04
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	54.5	1.8E+04	3.0E-03	3.9E+04	1.4E-03
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16.8	1.8E+04	9.3E-04	3.9E+04	4.3E-04
116-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	177.1	1.0E+04	1.8E-02	1.4E+04	1.3E-02
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854.0	1.0E+05	8.5E-03	4.5E+04	1.9E-02
116-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	850.2	5.0E+02	**1.7E+00**	1.3E+05	6.4E-03

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	62.2	4.0E+03	1.6E-02	1.6E+03	3.8E-02
116-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	5.3E-05	9.2E+02	1.3E-04
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6881.2	4.0E+02	**1.7E+01**	3.8E+04	1.8E-01
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33.1	1.8E+04	1.8E-03	4.5E+04	7.4E-04
116-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7545.8	1.3E+04	5.8E-01	1.1E+05	6.8E-02
116-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15050.2	5.0E+04	3.0E-01	1.1E+05	1.4E-01
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	1.8E+04	2.0E-04	4.4E+04	8.0E-05
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.1	1.5E+04	6.8E-06	1.7E+03	5.8E-05
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130.8	1.8E+04	7.3E-03	8.4E+05	1.6E-04
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	No Value	--	No Value	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151.1	No Value	--	1.3E+06	1.2E-04
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	14.7	1.8E+04	8.2E-04	3.6E+04	4.1E-04
116-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2606.3	5.0E+04	5.2E-02	3.6E+04	7.3E-02
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	284702.1	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16.1	1.0E+02	1.6E-01	1.9E+03	8.7E-03
116-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	305.1	2.0E+03	1.5E-01	1.4E+04	2.2E-02
116-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8734.1	3.0E+04	2.9E-01	3.3E+04	2.7E-01
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	No Value	--	No Value	--
116-D-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	29336.9	No Value	--	3.4E+08	8.6E-05
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3756.6	No Value	--	No Value	--
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79.0	1.8E+04	4.4E-03	6.0E+05	1.3E-04
116-D-5_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.2E-04	--	4.2E-04
116-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2105.6	5.0E+03	4.2E-01	7.9E+05	2.7E-03
116-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.4E-05
116-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.5E-05	5.2E+03	1.4E-04
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	56600.6	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
116-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43706.2	5.0E+04	8.7E-01	6.8E+04	6.5E-01
116-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2876.8	1.0E+04	2.9E-01	1.9E+05	1.5E-02
116-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63089.0	3.3E+05	1.9E-01	1.3E+06	4.8E-02
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10.4	1.8E+04	5.8E-04	6.4E+04	1.6E-04
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	1.8E+04	4.7E-04	7.6E+04	1.1E-04
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14.1	1.8E+04	7.8E-04	3.9E+04	3.6E-04
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	1.8E+04	2.8E-04	3.9E+04	1.3E-04
116-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	212.2	1.0E+04	2.1E-02	1.4E+04	1.5E-02
116-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1133.5	5.0E+02	**2.3E+00**	1.3E+05	8.5E-03
116-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	67.1	4.0E+03	1.7E-02	1.6E+03	4.1E-02
116-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.4	2.2E+03	1.9E-04	9.2E+02	4.6E-04
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11364.6	4.0E+02	**2.8E+01**	3.8E+04	3.0E-01
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	12.8	1.8E+04	7.1E-04	4.5E+04	2.9E-04
116-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8904.8	1.3E+04	6.9E-01	1.1E+05	8.0E-02
116-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17071.2	5.0E+04	3.4E-01	1.1E+05	1.6E-01
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	1.5E+04	7.1E-05	1.7E+03	6.0E-04
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	12.8	1.8E+04	7.1E-04	8.4E+05	1.5E-05
116-D-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	480.3	No Value	--	2.3E+06	2.1E-04
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185.2	No Value	--	1.3E+06	1.5E-04
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	1.8E+04	3.3E-04	3.6E+04	1.7E-04
116-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3774.6	5.0E+04	7.6E-02	3.6E+04	1.1E-01
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324766.0	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65.0	1.0E+02	6.5E-01	1.9E+03	3.5E-02
116-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	314.3	2.0E+03	1.6E-01	1.4E+04	2.3E-02
116-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12276.5	3.0E+04	4.1E-01	3.3E+04	3.8E-01
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	No Value	--	No Value	--
116-D-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9325.0	No Value	--	3.4E+08	2.7E-05
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91100.0	No Value	--	3.4E+08	2.7E-04
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2478.6	No Value	--	No Value	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	3.5E-06	6.3E+03	7.2E-06
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	13.9	1.8E+04	7.7E-04	6.0E+05	2.3E-05
116-D-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.2E-04	--	1.3E-03
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1300.0	2.0E+03	6.5E-01	5.0E+04	2.6E-02
116-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1934.9	5.0E+03	3.9E-01	7.9E+05	2.5E-03
116-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.7	5.2E+04	1.3E-05	6.4E+03	1.0E-04
116-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	4.1E-05	5.2E+03	1.3E-04
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	62589.2	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	51203.6	5.0E+04	**1.0E+00**	6.8E+04	7.6E-01
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	No Value	--	4.0E+02	1.6E-02
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239.0	5.0E+03	4.8E-02	6.0E+03	4.0E-02
116-D-5_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2371.1	1.0E+04	2.4E-01	1.9E+05	1.3E-02
116-D-5_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	61780.6	3.3E+05	1.9E-01	1.3E+06	4.7E-02
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	1.8E+04	2.2E-04	6.4E+04	6.3E-05
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	1.8E+04	1.8E-04	7.6E+04	4.2E-05
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	1.8E+04	2.8E-04	3.9E+04	1.3E-04
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	1.8E+04	1.3E-04	3.9E+04	5.8E-05
116-D-5_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	185.2	1.0E+04	1.9E-02	1.4E+04	1.3E-02
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	No Value	--	4.1E+03	3.7E-04
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1067.1	5.0E+02	**2.1E+00**	1.3E+05	8.0E-03
116-D-5_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	58.7	4.0E+03	1.5E-02	1.6E+03	3.6E-02
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8013.6	4.0E+02	**2.0E+01**	3.8E+04	2.1E-01
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12.1	1.8E+04	6.7E-04	4.5E+04	2.7E-04
116-D-5_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7289.5	1.3E+04	5.6E-01	1.1E+05	6.5E-02
116-D-5_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	14234.1	5.0E+04	2.9E-01	1.1E+05	1.3E-01
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	1.8E+04	7.7E-05	4.4E+04	3.2E-05
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	1.8E+04	4.9E-04	8.4E+05	1.1E-05
116-D-5_Staging pile area footprint	non-Rad	Fluoride	16984-48-8	ug/kg	300.0	No Value	--	2.3E+06	1.3E-04
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	148.8	No Value	--	1.3E+06	1.2E-04
116-D-5_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	3269.4	5.0E+04	6.5E-02	3.6E+04	9.2E-02
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	276906.3	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	19.6	No Value	--	2.2E+04	9.0E-04
116-D-5_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	281.3	2.0E+03	1.4E-01	1.4E+04	2.0E-02
116-D-5_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	10056.5	3.0E+04	3.4E-01	3.3E+04	3.1E-01
116-D-5_Staging pile area footprint	non-Rad	Nitrate	14797-55-8	ug/kg	13893.5	No Value	--	3.4E+08	4.1E-05
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2627.1	No Value	--	No Value	--
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	1.8E+04	3.5E-04	6.0E+05	1.0E-05
116-D-5_Staging pile area footprint	Rad	Rads SOF	---	pCi/g	--	--	4.9E-05	--	2.1E-04
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228.0	2.0E+03	1.1E-01	5.0E+04	4.6E-03
116-D-5_Staging pile area footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1770.3	5.0E+03	3.5E-01	7.9E+05	2.3E-03
116-D-5_Staging pile area footprint	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	9.2E-05
116-D-5_Staging pile area footprint	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.8E-05	5.2E+03	1.2E-04
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	52464.4	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
116-D-5_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	41996.0	5.0E+04	8.4E-01	6.8E+04	6.2E-01
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.0	2.2E+04	6.5E-07	4.8E+03	2.9E-06
116-D-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	8.8E-05	9.2E+02	2.1E-04
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8241.4	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	8.2E-06	8.1E+02	6.2E-05
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.4	1.5E+04	2.5E-05	1.7E+03	2.1E-04
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.0	1.3E+04	3.8E-06	1.6E+03	2.9E-05
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1126.3	No Value	--	1.3E+06	9.0E-04
116-D-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3655.4	5.0E+04	7.3E-02	3.6E+04	1.0E-01
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	No Value	--	No Value	--
116-D-7_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.7E-04	--	7.0E-04
116-D-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1474.3	5.0E+03	3.0E-01	7.9E+05	1.9E-03
116-D-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.2E-06	6.4E+03	7.5E-05
116-D-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.5E-06	4.4E+03	9.1E-06
116-D-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.1E-05	5.2E+03	9.5E-05
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	No Value	--	No Value	--
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21.0	2.9E+04	7.2E-04	6.8E+05	3.1E-05

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385.2	5.0E+03	7.7E-02	6.0E+03	6.4E-02
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	26.8	4.0E+04	6.7E-04	1.5E+03	1.8E-02
116-D-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2905.9	1.0E+04	2.9E-01	1.9E+05	1.5E-02
116-D-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	71253.2	3.3E+05	2.2E-01	1.3E+06	5.4E-02
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31.0	1.8E+04	1.7E-03	6.4E+04	4.8E-04
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30.0	1.8E+04	1.7E-03	7.6E+04	3.9E-04
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49.0	1.8E+04	2.7E-03	3.9E+04	1.3E-03
116-D-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	475.3	1.0E+04	4.8E-02	1.4E+04	3.4E-02
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200.0	1.0E+05	2.0E-03	4.5E+04	4.4E-03
116-D-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1416.7	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
116-D-8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	61.2	4.0E+03	1.5E-02	1.6E+03	3.8E-02
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	2.2E+03	1.2E-03	9.2E+02	2.9E-03
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10654.3	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660.0	1.8E+04	3.7E-02	4.5E+04	1.5E-02
116-D-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7731.8	1.3E+04	6.0E-01	1.1E+05	6.9E-02
116-D-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13183.0	5.0E+04	2.6E-01	1.1E+05	1.2E-01
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56.0	1.8E+04	3.1E-03	8.4E+05	6.7E-05
116-D-8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	2047.7	No Value	--	2.3E+06	9.0E-04
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41187.9	5.0E+04	8.2E-01	3.6E+04	**1.2E+00**
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	304542.2	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22.9	1.0E+02	2.3E-01	1.9E+03	1.2E-02
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10.0	No Value	--	1.7E+05	6.0E-05
116-D-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11657.1	3.0E+04	3.9E-01	3.3E+04	3.6E-01
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2208.1	No Value	--	No Value	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1942.5	No Value	--	No Value	--
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24.0	1.8E+04	1.3E-03	6.0E+05	4.0E-05
116-D-8_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.3E-03	--	7.3E-03
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.4	3.6E+03	1.1E-04	9.1E+01	4.3E-03
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11472.5	2.0E+05	5.7E-02	3.6E+08	3.2E-05
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23750.5	No Value	--	No Value	--
116-D-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	436.0	5.0E+03	8.7E-02	7.9E+05	5.6E-04
116-D-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	2.9E-06	6.4E+03	2.3E-05
116-D-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.1	1.6E+04	9.3E-06	5.2E+03	2.8E-05
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53268.1	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
116-D-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	46326.5	5.0E+04	9.3E-01	6.8E+04	6.8E-01
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	4.0E+04	6.5E-05	1.5E+03	1.8E-03
116-D-8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1800.0	1.0E+04	1.8E-01	1.9E+05	9.5E-03
116-D-8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	47900.0	3.3E+05	1.5E-01	1.3E+06	3.6E-02
116-D-8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	120.0	1.0E+04	1.2E-02	1.4E+04	8.6E-03
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130.0	1.0E+05	1.3E-03	4.5E+04	2.9E-03
116-D-8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	41.0	4.0E+03	1.0E-02	1.6E+03	2.5E-02
116-D-8_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.5	2.2E+03	2.3E-04	9.2E+02	5.5E-04
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	5600.0	4.0E+02	**1.4E+01**	3.8E+04	1.5E-01
116-D-8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6200.0	1.3E+04	4.8E-01	1.1E+05	5.6E-02
116-D-8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	12800.0	5.0E+04	2.6E-01	1.1E+05	1.2E-01
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35000.0	5.0E+04	7.0E-01	3.6E+04	9.8E-01
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232000.0	2.2E+05	**1.1E+00**	5.8E+06	4.0E-02
116-D-8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	9700.0	3.0E+04	3.2E-01	3.3E+04	3.0E-01
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	22100.0	2.0E+03	**1.1E+01**	3.1E+04	7.1E-01
116-D-8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	26900.0	5.0E+04	5.4E-01	6.8E+04	4.0E-01
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490.0	5.0E+03	9.8E-02	6.0E+03	8.2E-02
116-D-8_Shallow_Focused_2	non-Rad	Aroclor HI	---	ug/kg	--	--	6.9E-03	--	1.9E-01
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96.0	4.0E+04	2.4E-03	1.5E+03	6.5E-02
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180.0	4.0E+04	4.5E-03	1.5E+03	1.2E-01
116-D-8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2700.0	1.0E+04	2.7E-01	1.9E+05	1.4E-02
116-D-8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	77900.0	3.3E+05	2.4E-01	1.3E+06	5.9E-02
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29.0	1.8E+04	1.6E-03	6.4E+04	4.5E-04
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27.0	1.8E+04	1.5E-03	7.6E+04	3.5E-04
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53.0	1.8E+04	2.9E-03	3.9E+04	1.4E-03
116-D-8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	120.0	1.0E+04	1.2E-02	1.4E+04	8.6E-03
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92.0	1.0E+05	9.2E-04	4.5E+04	2.0E-03
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	2700.0	5.0E+02	**5.4E+00**	1.3E+05	2.0E-02
116-D-8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	170.0	4.0E+03	4.3E-02	1.6E+03	1.0E-01
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	2.2E+03	3.5E-03	9.2E+02	8.3E-03
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	10100.0	4.0E+02	**2.5E+01**	3.8E+04	2.7E-01
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45.0	1.8E+04	2.5E-03	4.5E+04	1.0E-03
116-D-8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8000.0	1.3E+04	6.2E-01	1.1E+05	7.2E-02
116-D-8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15300.0	5.0E+04	3.1E-01	1.1E+05	1.4E-01
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52.0	1.8E+04	2.9E-03	8.4E+05	6.2E-05
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154.0	No Value	--	1.3E+06	1.2E-04
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10800.0	5.0E+04	2.2E-01	3.6E+04	3.0E-01
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	301000.0	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29.0	1.0E+02	2.9E-01	1.9E+03	1.6E-02
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	No Value	--	1.7E+05	1.5E-05
116-D-8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	370.0	2.0E+03	1.9E-01	1.4E+04	2.7E-02
116-D-8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9900.0	3.0E+04	3.3E-01	3.3E+04	3.0E-01
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5000.0	No Value	--	No Value	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5300.0	No Value	--	No Value	--
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53.0	1.8E+04	2.9E-03	6.0E+05	8.8E-05
116-D-8_Shallow_Focused_2	Rad	Rads SOF	---	pCi/g	--	--	3.5E-03	--	8.3E-03
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1200.0	5.2E+02	**2.3E+00**	1.9E+03	6.3E-01
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17000.0	2.0E+05	8.5E-02	3.6E+08	4.8E-05
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46000.0	No Value	--	No Value	--
116-D-8_Shallow_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	765.0	5.0E+03	1.5E-01	7.9E+05	9.7E-04
116-D-8_Shallow_Focused_2	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.8E-06	6.4E+03	3.1E-05
116-D-8_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.6E-05	5.2E+03	5.0E-05
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	58700.0	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55200.0	5.0E+04	**1.1E+00**	6.8E+04	8.1E-01
116-D-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.5E-05	9.2E+02	6.0E-05
116-D-9_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.3E-04	--	6.4E-03
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.6	3.6E+03	1.6E-04	9.1E+01	6.1E-03
116-D-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1647.7	5.0E+03	3.3E-01	7.9E+05	2.1E-03
116-D-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.6E-06	6.4E+03	7.8E-05
116-D-9_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	1.9E-06	4.4E+03	1.2E-05
116-D-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.5E-05	5.2E+03	1.1E-04
116-DR-1,2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.7	2.2E+03	3.1E-04	9.2E+02	7.4E-04
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.0	6.1E+03	8.0E-06	8.1E+02	6.1E-05
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.2E-05	1.7E+03	1.0E-04
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.0	1.8E+04	1.7E-06	6.0E+03	4.9E-06
116-DR-1,2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.7E-04	--	1.1E-03
116-DR-1,2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1431.5	5.0E+03	2.9E-01	7.9E+05	1.8E-03
116-DR-1,2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.1E-06	6.4E+03	7.3E-05
116-DR-1,2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	9.7E-07	4.4E+03	6.1E-06
116-DR-1,2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.1E-05	5.2E+03	9.3E-05
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	4.0E+04	1.5E-04	1.5E+03	4.0E-03
116-DR-10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2957.7	1.0E+04	3.0E-01	1.9E+05	1.6E-02
116-DR-10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66524.0	3.3E+05	2.0E-01	1.3E+06	5.0E-02
116-DR-10_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	190.5	1.0E+04	1.9E-02	1.4E+04	1.4E-02
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1049.3	5.0E+02	**2.1E+00**	1.3E+05	7.9E-03
116-DR-10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	87.6	4.0E+03	2.2E-02	1.6E+03	5.4E-02
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10292.3	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
116-DR-10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6708.2	1.3E+04	5.2E-01	1.1E+05	6.0E-02
116-DR-10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13263.2	5.0E+04	2.7E-01	1.1E+05	1.2E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-DR-10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7025.7	5.0E+04	1.4E-01	3.6E+04	2.0E-01
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	288834.1	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35.4	1.0E+02	3.5E-01	1.9E+03	1.9E-02
116-DR-10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	307.2	2.0E+03	1.5E-01	1.4E+04	2.2E-02
116-DR-10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9733.8	3.0E+04	3.2E-01	3.3E+04	3.0E-01
116-DR-10_Overburden	Rad	Rads SOF	---	pCi/g	--	--	5.1E-05	--	2.1E-04
116-DR-10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1831.4	5.0E+03	3.7E-01	7.9E+05	2.3E-03
116-DR-10_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.3E-05
116-DR-10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.9E-05	5.2E+03	1.2E-04
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51135.7	2.0E+03	**2.6E+01**	3.1E+04	**1.6E+00**
116-DR-10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38620.9	5.0E+04	7.7E-01	6.8E+04	5.7E-01
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	4.0E+04	2.1E-04	1.5E+03	5.8E-03
116-DR-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3821.4	1.0E+04	3.8E-01	1.9E+05	2.0E-02
116-DR-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57993.2	3.3E+05	1.8E-01	1.3E+06	4.4E-02
116-DR-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	181.7	1.0E+04	1.8E-02	1.4E+04	1.3E-02
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1034.7	5.0E+02	**2.1E+00**	1.3E+05	7.8E-03
116-DR-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	101.2	4.0E+03	2.5E-02	1.6E+03	6.2E-02
116-DR-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.4	2.2E+03	1.9E-04	9.2E+02	4.6E-04
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11445.4	4.0E+02	**2.9E+01**	3.8E+04	3.0E-01
116-DR-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7100.9	1.3E+04	5.5E-01	1.1E+05	6.4E-02
116-DR-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14969.6	5.0E+04	3.0E-01	1.1E+05	1.4E-01
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.1E-05	1.7E+03	9.0E-05
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100.0	No Value	--	1.3E+06	8.0E-05
116-DR-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3280.8	5.0E+04	6.6E-02	3.6E+04	9.2E-02
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279316.5	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	21.9	1.0E+02	2.2E-01	1.9E+03	1.2E-02
116-DR-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	331.7	2.0E+03	1.7E-01	1.4E+04	2.4E-02
116-DR-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10308.1	3.0E+04	3.4E-01	3.3E+04	3.2E-01
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.0	1.3E+04	3.4E-06	6.3E+03	6.9E-06
116-DR-10_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.6E-04	--	7.8E-04
116-DR-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1926.3	5.0E+03	3.9E-01	7.9E+05	2.5E-03
116-DR-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.6E-05
116-DR-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	4.1E-05	5.2E+03	1.3E-04
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50456.4	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
116-DR-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38543.4	5.0E+04	7.7E-01	6.8E+04	5.7E-01
116-DR-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1790.0	1.0E+04	1.8E-01	1.9E+05	9.5E-03
116-DR-10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41600.0	3.3E+05	1.3E-01	1.3E+06	3.1E-02
116-DR-10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	161.0	1.0E+04	1.6E-02	1.4E+04	1.2E-02
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	598.0	5.0E+02	**1.2E+00**	1.3E+05	4.5E-03
116-DR-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	143.0	4.0E+03	3.6E-02	1.6E+03	8.8E-02
116-DR-10_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.6	2.2E+03	2.9E-04	9.2E+02	7.0E-04
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6650.0	4.0E+02	**1.7E+01**	3.8E+04	1.7E-01
116-DR-10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8370.0	1.3E+04	6.4E-01	1.1E+05	7.5E-02
116-DR-10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15000.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.6	1.5E+04	3.9E-05	1.7E+03	3.3E-04
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240.0	No Value	--	1.3E+06	1.9E-04
116-DR-10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2750.0	5.0E+04	5.5E-02	3.6E+04	7.7E-02
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	310000.0	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
116-DR-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13.0	1.0E+02	1.3E-01	1.9E+03	7.0E-03
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497.0	2.0E+03	2.5E-01	1.4E+04	3.6E-02
116-DR-10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8630.0	3.0E+04	2.9E-01	3.3E+04	2.7E-01
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.2	1.3E+04	1.6E-05	6.3E+03	3.2E-05
116-DR-10_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	3.8E-04	--	1.2E-03
116-DR-10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1164.0	5.0E+03	2.3E-01	7.9E+05	1.5E-03
116-DR-10_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.3E-05
116-DR-10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.4	1.6E+04	2.5E-05	5.2E+03	7.6E-05
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	73400.0	2.0E+03	**3.7E+01**	3.1E+04	**2.4E+00**
116-DR-10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46500.0	5.0E+04	9.3E-01	6.8E+04	6.9E-01
116-DR-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.8E-05	9.2E+02	6.6E-05
116-DR-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.2E-05	--	2.6E-04
116-DR-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1476.5	5.0E+03	3.0E-01	7.9E+05	1.9E-03
116-DR-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.3E-05	6.4E+03	1.0E-04
116-DR-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.2E-05	5.2E+03	9.6E-05
116-DR-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2616.2	1.0E+04	2.6E-01	1.9E+05	1.4E-02
116-DR-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	72420.1	3.3E+05	2.2E-01	1.3E+06	5.5E-02
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	73.8	1.8E+04	4.1E-03	6.4E+04	1.2E-03
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57.5	1.8E+04	3.2E-03	7.6E+04	7.5E-04
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102.3	1.8E+04	5.7E-03	3.9E+04	2.6E-03
116-DR-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	119.6	1.0E+04	1.2E-02	1.4E+04	8.6E-03
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1141.7	5.0E+02	**2.3E+00**	1.3E+05	8.6E-03
116-DR-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.3	2.2E+03	1.1E-04	9.2E+02	2.7E-04
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11533.5	4.0E+02	**2.9E+01**	3.8E+04	3.0E-01
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	91.7	1.8E+04	5.1E-03	4.5E+04	2.1E-03
116-DR-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9716.5	1.3E+04	7.5E-01	1.1E+05	8.7E-02
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.2	6.1E+03	3.2E-05	8.1E+02	2.5E-04
116-DR-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	21451.5	5.0E+04	4.3E-01	1.1E+05	2.0E-01
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.8	1.5E+04	5.5E-05	1.7E+03	4.6E-04
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85.3	1.8E+04	4.7E-03	8.4E+05	1.0E-04
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	257.6	No Value	--	1.3E+06	2.1E-04
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45.0	1.8E+04	2.5E-03	3.6E+04	1.3E-03
116-DR-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4039.3	5.0E+04	8.1E-02	3.6E+04	1.1E-01
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	336162.7	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	50.9	1.0E+02	5.1E-01	1.9E+03	2.7E-02
116-DR-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11347.8	3.0E+04	3.8E-01	3.3E+04	3.5E-01
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29.4	No Value	--	No Value	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.1	1.3E+04	8.6E-06	6.3E+03	1.7E-05
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87.3	1.8E+04	4.9E-03	6.0E+05	1.5E-04
116-DR-5_Overburden	Rad	Rads SOF	---	pCi/g	--	--	3.3E-04	--	3.8E-03
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	5.2E-05	9.1E+01	2.0E-03
116-DR-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2212.6	5.0E+03	4.4E-01	7.9E+05	2.8E-03
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.2	1.7E+06	1.2E-07	4.2E+02	4.7E-04
116-DR-5_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.8	5.2E+04	1.5E-05	6.4E+03	1.2E-04
116-DR-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	2.3E-06	4.4E+03	1.4E-05
116-DR-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.7E-05	5.2E+03	1.4E-04
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59625.4	2.0E+03	**3.0E+01**	3.1E+04	**1.9E+00**
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76416.5	5.0E+04	**1.5E+00**	6.8E+04	**1.1E+00**
116-DR-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2551.0	1.0E+04	2.6E-01	1.9E+05	1.4E-02
116-DR-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70791.6	3.3E+05	2.2E-01	1.3E+06	5.4E-02
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146.4	1.8E+04	8.1E-03	6.4E+04	2.3E-03
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57.7	1.8E+04	3.2E-03	7.6E+04	7.6E-04
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	177.6	1.8E+04	9.9E-03	3.9E+04	4.5E-03
116-DR-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	246.4	1.0E+04	2.5E-02	1.4E+04	1.8E-02
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	66.6	1.0E+05	6.7E-04	4.5E+04	1.5E-03
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1500.0	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
116-DR-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.0	2.2E+03	4.4E-04	9.2E+02	1.0E-03
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25435.8	4.0E+02	**6.4E+01**	3.8E+04	6.7E-01
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169.4	1.8E+04	9.4E-03	4.5E+04	3.8E-03
116-DR-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8532.9	1.3E+04	6.6E-01	1.1E+05	7.7E-02
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	2.0E-05	8.1E+02	1.5E-04
116-DR-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	21728.2	5.0E+04	4.4E-01	1.1E+05	2.0E-01
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	1.5E+04	1.7E-04	1.7E+03	1.5E-03
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250.3	1.8E+04	1.4E-02	8.4E+05	3.0E-04
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554.3	No Value	--	1.3E+06	4.5E-04
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38.4	1.8E+04	2.1E-03	3.6E+04	1.1E-03
116-DR-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3907.1	5.0E+04	7.8E-02	3.6E+04	1.1E-01
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	309849.1	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	47.7	1.0E+02	4.8E-01	1.9E+03	2.6E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540.0	2.0E+03	2.7E-01	1.4E+04	3.9E-02
116-DR-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12850.4	3.0E+04	4.3E-01	3.3E+04	3.9E-01
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	29.7	No Value	--	No Value	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.1	1.3E+04	9.1E-06	6.3E+03	1.8E-05
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237.2	1.8E+04	1.3E-02	6.0E+05	4.0E-04
116-DR-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.2E-04	--	7.1E-03
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	8.8E-05	9.1E+01	3.5E-03
116-DR-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2812.5	5.0E+03	5.6E-01	7.9E+05	3.6E-03
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.2	1.7E+06	1.2E-07	4.2E+02	4.8E-04
116-DR-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.0	5.2E+04	2.0E-05	6.4E+03	1.6E-04
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.4	2.7E+04	1.5E-05	4.4E+03	9.7E-05
116-DR-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.9	1.6E+04	5.9E-05	5.2E+03	1.8E-04
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55591.2	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
116-DR-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45491.8	5.0E+04	9.1E-01	6.8E+04	6.7E-01
116-DR-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3100.0	1.0E+04	3.1E-01	1.9E+05	1.6E-02
116-DR-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70300.0	3.3E+05	2.1E-01	1.3E+06	5.3E-02
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56.0	1.8E+04	3.1E-03	6.4E+04	8.8E-04
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70.0	1.8E+04	3.9E-03	3.9E+04	1.8E-03
116-DR-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200.0	1.0E+04	2.0E-02	1.4E+04	1.4E-02
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71.0	1.0E+05	7.1E-04	4.5E+04	1.6E-03
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1400.0	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
116-DR-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.9	2.2E+03	4.3E-04	9.2E+02	1.0E-03
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16600.0	4.0E+02	**4.2E+01**	3.8E+04	4.4E-01
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62.0	1.8E+04	3.4E-03	4.5E+04	1.4E-03
116-DR-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9700.0	1.3E+04	7.5E-01	1.1E+05	8.7E-02
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26100.0	5.0E+04	5.2E-01	1.1E+05	2.4E-01
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.5	1.5E+04	3.6E-05	1.7E+03	3.1E-04
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94.0	1.8E+04	5.2E-03	8.4E+05	1.1E-04
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361.0	No Value	--	1.3E+06	2.9E-04
116-DR-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4500.0	5.0E+04	9.0E-02	3.6E+04	1.3E-01
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325000.0	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45.0	1.0E+02	4.5E-01	1.9E+03	2.4E-02
116-DR-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15900.0	3.0E+04	5.3E-01	3.3E+04	4.9E-01
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	No Value	--	No Value	--
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100.0	1.8E+04	5.6E-03	6.0E+05	1.7E-04
116-DR-5_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	5.3E-04	--	2.3E-03
116-DR-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2274.3	5.0E+03	4.6E-01	7.9E+05	2.9E-03
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.3	1.7E+06	1.8E-07	4.2E+02	7.1E-04
116-DR-5_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.9	5.2E+04	1.7E-05	6.4E+03	1.4E-04
116-DR-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.8	1.6E+04	4.9E-05	5.2E+03	1.5E-04
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56300.0	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
116-DR-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49400.0	5.0E+04	9.9E-01	6.8E+04	7.3E-01
116-DR-5_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2837.0	1.0E+04	2.8E-01	1.9E+05	1.5E-02
116-DR-5_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	58874.1	3.3E+05	1.8E-01	1.3E+06	4.5E-02
116-DR-5_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	109.8	1.0E+04	1.1E-02	1.4E+04	7.9E-03
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62.3	1.0E+05	6.2E-04	4.5E+04	1.4E-03
116-DR-5_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	6.2E-05	9.2E+02	1.5E-04
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	11196.5	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
116-DR-5_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	7807.9	1.3E+04	6.0E-01	1.1E+05	7.0E-02
116-DR-5_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	17612.4	5.0E+04	3.5E-01	1.1E+05	1.6E-01
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427.3	No Value	--	1.3E+06	3.4E-04
116-DR-5_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2929.5	5.0E+04	5.9E-02	3.6E+04	8.2E-02
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	292940.1	2.2E+05	**1.3E+00**	5.8E+06	5.1E-02
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24.1	1.0E+02	2.4E-01	1.9E+03	1.3E-02
116-DR-5_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	11700.1	3.0E+04	3.9E-01	3.3E+04	3.6E-01
116-DR-5_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2094.6	5.0E+03	4.2E-01	7.9E+05	2.7E-03
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.2	1.7E+06	1.2E-07	4.2E+02	4.7E-04
116-DR-5_Staging Pile Area	Rad	Uranium-234	13966-29-5	pCi/g	0.7	5.2E+04	1.4E-05	6.4E+03	1.1E-04
116-DR-5_Staging Pile Area	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	3.9E-06	4.4E+03	2.4E-05
116-DR-5_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.4E-05	5.2E+03	1.4E-04
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	51249.9	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
116-DR-5_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	39187.2	5.0E+04	7.8E-01	6.8E+04	5.8E-01
116-DR-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	4.1E-05	9.2E+02	9.9E-05
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.5	1.5E+04	3.3E-05	1.7E+03	2.8E-04
116-DR-6_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.4E-04	--	5.2E-03
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.4	3.6E+03	1.2E-04	9.1E+01	4.7E-03
116-DR-6_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1417.0	5.0E+03	2.8E-01	7.9E+05	1.8E-03
116-DR-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.2E-05	6.4E+03	9.7E-05
116-DR-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.0E-05	5.2E+03	9.2E-05
116-DR-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.3E-05	9.2E+02	7.9E-05
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.5E-05	1.7E+03	1.3E-04
116-DR-7_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.8E-05	--	4.4E-04
116-DR-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1586.1	5.0E+03	3.2E-01	7.9E+05	2.0E-03
116-DR-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.7	5.2E+04	1.4E-05	6.4E+03	1.1E-04
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.1	2.7E+04	4.4E-06	4.4E+03	2.8E-05
116-DR-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.3E-05	5.2E+03	1.0E-04
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26.4	No Value	--	No Value	--
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535.4	5.0E+03	1.1E-01	6.0E+03	9.0E-02
116-DR-8_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2248.0	1.0E+04	2.3E-01	1.9E+05	1.2E-02
116-DR-8_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	51820.8	3.3E+05	1.6E-01	1.3E+06	3.9E-02
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77.0	1.8E+04	4.3E-03	6.4E+04	1.2E-03
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46.0	1.8E+04	2.6E-03	7.6E+04	6.0E-04
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95.0	1.8E+04	5.3E-03	3.9E+04	2.4E-03
116-DR-8_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	555.0	1.0E+04	5.6E-02	1.4E+04	4.0E-02
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347.4	1.0E+05	3.5E-03	4.5E+04	7.7E-03
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	7334.0	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110.0	1.8E+04	6.1E-03	4.5E+04	2.5E-03
116-DR-8_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	8689.1	1.3E+04	6.7E-01	1.1E+05	7.8E-02
116-DR-8_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	13744.5	5.0E+04	2.8E-01	1.1E+05	1.3E-01
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180.0	1.8E+04	1.0E-02	8.4E+05	2.2E-04
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175.0	No Value	--	1.3E+06	1.4E-04
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22.0	1.8E+04	1.2E-03	3.6E+04	6.2E-04
116-DR-8_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	3831.1	5.0E+04	7.7E-02	3.6E+04	1.1E-01
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	ug/kg	6085.7	2.0E+03	**3.0E+00**	5.2E+05	1.2E-02
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	323772.7	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	No Value	--	1.7E+05	1.1E-05
116-DR-8_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	11375.5	3.0E+04	3.8E-01	3.3E+04	3.5E-01
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.1	1.8E+04	5.2E-06	6.0E+03	1.5E-05
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120.0	1.8E+04	6.7E-03	6.0E+05	2.0E-04
116-DR-8_Overburden_2	Rad	Rads SOF	---	pCi/g	--	--	8.7E-05	--	2.4E-03
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	5.7E-05	9.1E+01	2.2E-03
116-DR-8_Overburden_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	898.0	5.0E+03	1.8E-01	7.9E+05	1.1E-03
116-DR-8_Overburden_2	Rad	Uranium-234	13966-29-5	pCi/g	0.3	5.2E+04	5.4E-06	6.4E+03	4.3E-05
116-DR-8_Overburden_2	Rad	Uranium-238	U-238	pCi/g	0.3	1.6E+04	1.9E-05	5.2E+03	5.9E-05
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	65299.4	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
116-DR-8_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	47916.5	5.0E+04	9.6E-01	6.8E+04	7.1E-01
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	No Value	--	No Value	--
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	746.9	5.0E+03	1.5E-01	6.0E+03	1.3E-01
116-DR-8_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2507.3	1.0E+04	2.5E-01	1.9E+05	1.3E-02
116-DR-8_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	63743.6	3.3E+05	1.9E-01	1.3E+06	4.8E-02
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1958.0	1.0E+04	2.0E-01	1.4E+04	1.4E-01
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133.2	1.0E+05	1.3E-03	4.5E+04	2.9E-03
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	ug/kg	1274.2	5.0E+02	**2.6E+00**	1.3E+05	9.6E-03
116-DR-8_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	78.0	4.0E+03	2.0E-02	1.6E+03	4.8E-02
116-DR-8_Overburden_3	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	4.8E-05	9.2E+02	1.2E-04
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	9365.2	4.0E+02	**2.3E+01**	3.8E+04	2.5E-01
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30.0	1.8E+04	1.7E-03	4.5E+04	6.7E-04

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-DR-8_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	9279.2	1.3E+04	7.1E-01	1.1E+05	8.3E-02
116-DR-8_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	13020.5	5.0E+04	2.6E-01	1.1E+05	1.2E-01
116-DR-8_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	4812.6	5.0E+04	9.6E-02	3.6E+04	1.4E-01
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27769.8	2.0E+03	**1.4E+01**	5.2E+05	5.4E-02
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	348288.6	2.2E+05	**1.6E+00**	5.8E+06	6.0E-02
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	No Value	--	1.7E+05	2.0E-05
116-DR-8_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370.0	2.0E+03	1.9E-01	1.4E+04	2.7E-02
116-DR-8_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	11807.1	3.0E+04	3.9E-01	3.3E+04	3.6E-01
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	16.6	1.8E+04	9.2E-04	6.0E+05	2.8E-05
116-DR-8_Overburden_3	Rad	Rads SOF	---	pCi/g	--	--	1.3E-04	--	2.9E-03
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2200.0	2.0E+03	**1.1E+00**	5.0E+04	4.4E-02
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	6.9E-05	9.1E+01	2.7E-03
116-DR-8_Overburden_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	478.1	5.0E+03	9.6E-02	7.9E+05	6.1E-04
116-DR-8_Overburden_3	Rad	Uranium-234	13966-29-5	pCi/g	0.1	5.2E+04	2.9E-06	6.4E+03	2.3E-05
116-DR-8_Overburden_3	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.0E-05	5.2E+03	3.1E-05
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	70346.4	2.0E+03	**3.5E+01**	3.1E+04	**2.3E+00**
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72845.7	5.0E+04	**1.5E+00**	6.8E+04	**1.1E+00**
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26.0	No Value	--	1.6E+05	1.6E-04
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10.0	No Value	--	No Value	--
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11.0	No Value	--	No Value	--
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11.0	No Value	--	No Value	--
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12.0	2.0E+04	6.0E-04	1.1E+06	1.1E-05
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19.0	No Value	--	No Value	--
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	530.8	5.0E+03	1.1E-01	6.0E+03	8.9E-02
116-DR-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2451.8	1.0E+04	2.5E-01	1.9E+05	1.3E-02
116-DR-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	65315.3	3.3E+05	2.0E-01	1.3E+06	4.9E-02
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42.0	1.8E+04	2.3E-03	6.4E+04	6.6E-04
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28.0	1.8E+04	1.6E-03	7.6E+04	3.7E-04
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32.3	1.8E+04	1.8E-03	3.9E+04	8.2E-04
116-DR-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1024.1	1.0E+04	1.0E-01	1.4E+04	7.3E-02
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210.0	1.0E+05	2.1E-03	4.5E+04	4.6E-03
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1783.3	5.0E+02	**3.6E+00**	1.3E+05	1.3E-02
116-DR-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	6.7E-05	9.2E+02	1.6E-04
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8234.6	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33.2	1.8E+04	1.8E-03	4.5E+04	7.5E-04
116-DR-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8776.0	1.3E+04	6.8E-01	1.1E+05	7.9E-02
116-DR-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13953.4	5.0E+04	2.8E-01	1.1E+05	1.3E-01
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25.0	1.8E+04	1.4E-03	4.4E+04	5.7E-04
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192.0	No Value	--	1.3E+06	1.5E-04
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22.0	1.8E+04	1.2E-03	3.6E+04	6.2E-04
116-DR-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4208.1	5.0E+04	8.4E-02	3.6E+04	1.2E-01
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70443.7	2.0E+03	**3.5E+01**	5.2E+05	1.4E-01
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305029.3	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
116-DR-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.5	1.0E+02	9.5E-02	1.9E+03	5.1E-03
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	No Value	--	1.7E+05	1.1E-05
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640.0	2.0E+03	3.2E-01	1.4E+04	4.6E-02
116-DR-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11726.7	3.0E+04	3.9E-01	3.3E+04	3.6E-01
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18.6	1.8E+04	1.0E-03	6.0E+05	3.1E-05
116-DR-8_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.7E-04	--	3.7E-03
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	2.0E+05	5.5E-06	5.2E+06	2.1E-07
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	8.9E-05	9.1E+01	3.5E-03
116-DR-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	585.4	5.0E+03	1.2E-01	7.9E+05	7.5E-04
116-DR-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	3.4E-06	6.4E+03	2.8E-05
116-DR-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.3E-05	5.2E+03	3.8E-05
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	64428.9	2.0E+03	**3.2E+01**	3.1E+04	**2.1E+00**
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50213.4	5.0E+04	**1.0E+00**	6.8E+04	7.4E-01
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10.0	2.2E+03	4.5E-03	9.2E+02	1.1E-02
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16093.2	4.0E+02	**4.0E+01**	3.8E+04	4.2E-01
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.0	6.1E+03	7.2E-06	8.1E+02	5.5E-05
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.4	1.5E+04	3.0E-05	1.7E+03	2.5E-04
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.1	1.3E+04	5.7E-06	1.6E+03	4.4E-05
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1900.0	No Value	--	1.3E+06	1.5E-03
116-DR-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2837.7	5.0E+04	5.7E-02	3.6E+04	8.0E-02
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	No Value	--	No Value	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.4	1.8E+04	2.1E-05	6.0E+03	6.0E-05
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.7	1.3E+04	5.7E-05	6.3E+03	1.2E-04
116-DR-9_Shallow	Rad	Rads SOF	---	pCi/g	--	--	4.7E-03	--	1.4E-02
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	7.3E-05	9.1E+01	2.9E-03
118-D-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3014.0	1.0E+04	3.0E-01	1.9E+05	1.6E-02
118-D-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	69917.7	3.3E+05	2.1E-01	1.3E+06	5.3E-02
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120.0	1.8E+04	6.7E-03	3.9E+04	3.1E-03
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245.0	1.0E+05	2.5E-03	4.5E+04	5.4E-03
118-D-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1233.3	5.0E+02	**2.5E+00**	1.3E+05	9.3E-03
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110.0	No Value	--	No Value	--
118-D-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	65.3	4.0E+03	1.6E-02	1.6E+03	4.0E-02
118-D-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	3.6E-05	9.2E+02	8.7E-05
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10001.4	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
118-D-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7317.9	1.3E+04	5.6E-01	1.1E+05	6.6E-02
118-D-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15107.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	396.9	No Value	--	1.3E+06	3.2E-04
118-D-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3919.3	5.0E+04	7.8E-02	3.6E+04	1.1E-01
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306161.1	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
118-D-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.3	1.0E+02	7.3E-02	1.9E+03	3.9E-03
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760.0	2.0E+03	3.8E-01	1.4E+04	5.4E-02
118-D-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11640.0	3.0E+04	3.9E-01	3.3E+04	3.6E-01
118-D-1_Overburden	Rad	Rads SOF	---	pCi/g	--	--	9.8E-05	--	4.5E-04
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870.0	2.0E+05	4.4E-03	3.6E+08	2.4E-06
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1300.0	No Value	--	No Value	--
118-D-1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2196.6	5.0E+03	4.4E-01	7.9E+05	2.8E-03
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	2.4E-08	4.2E+02	9.8E-05
118-D-1_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.7	5.2E+04	1.5E-05	6.4E+03	1.2E-04
118-D-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.7E-05	5.2E+03	1.4E-04
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50373.4	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
118-D-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38461.0	5.0E+04	7.7E-01	6.8E+04	5.7E-01
118-D-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2632.0	1.0E+04	2.6E-01	1.9E+05	1.4E-02
118-D-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	60014.8	3.3E+05	1.8E-01	1.3E+06	4.5E-02
118-D-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	229.9	1.0E+04	2.3E-02	1.4E+04	1.7E-02
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1700.0	5.0E+02	**3.4E+00**	1.3E+05	1.3E-02
118-D-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	44.2	4.0E+03	1.1E-02	1.6E+03	2.7E-02
118-D-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.0	2.2E+03	1.8E-05	9.2E+02	4.2E-05
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9458.2	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
118-D-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7736.3	1.3E+04	6.0E-01	1.1E+05	6.9E-02
118-D-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	16751.9	5.0E+04	3.4E-01	1.1E+05	1.6E-01
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175.0	No Value	--	1.3E+06	1.4E-04
118-D-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3664.3	5.0E+04	7.3E-02	3.6E+04	1.0E-01
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	288049.5	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	16.8	1.0E+02	1.7E-01	1.9E+03	9.0E-03
118-D-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	320.0	2.0E+03	1.6E-01	1.4E+04	2.3E-02
118-D-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12503.8	3.0E+04	4.2E-01	3.3E+04	3.8E-01
118-D-1_Shallow_1	Rad	Rads SOF	---	pCi/g	--	--	1.3E-04	--	2.3E-03
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	2.2E+04	4.9E-05	5.4E+03	2.0E-04
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2470.8	2.0E+05	1.2E-02	3.6E+08	6.9E-06
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5641.7	No Value	--	No Value	--

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-D-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2394.9	5.0E+03	4.8E-01	7.9E+05	3.1E-03
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.7	1.7E+06	4.3E-07	4.2E+02	1.7E-03
118-D-1_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.8	5.2E+04	1.6E-05	6.4E+03	1.3E-04
118-D-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.8	1.6E+04	5.1E-05	5.2E+03	1.6E-04
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	59297.8	2.0E+03	**3.0E+01**	3.1E+04	**1.9E+00**
118-D-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41623.6	5.0E+04	8.3E-01	6.8E+04	6.1E-01
118-D-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3466.7	1.0E+04	3.5E-01	1.9E+05	1.8E-02
118-D-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	71721.2	3.3E+05	2.2E-01	1.3E+06	5.4E-02
118-D-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	141.4	1.0E+04	1.4E-02	1.4E+04	1.0E-02
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1206.8	5.0E+02	**2.4E+00**	1.3E+05	9.1E-03
118-D-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	71.9	4.0E+03	1.8E-02	1.6E+03	4.4E-02
118-D-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.7E-05	9.2E+02	6.4E-05
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	10857.1	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
118-D-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8554.0	1.3E+04	6.6E-01	1.1E+05	7.7E-02
118-D-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16263.3	5.0E+04	3.3E-01	1.1E+05	1.5E-01
118-D-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	4866.4	5.0E+04	9.7E-02	3.6E+04	1.4E-01
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	319582.0	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13.3	1.0E+02	1.3E-01	1.9E+03	7.1E-03
118-D-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	13106.2	3.0E+04	4.4E-01	3.3E+04	4.0E-01
118-D-1_Shallow_5	Rad	Rads SOF	---	pCi/g	--	--	4.3E-05	--	2.1E-04
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8382.0	2.0E+05	4.2E-02	3.6E+08	2.4E-05
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13055.8	No Value	--	No Value	--
118-D-1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	729.3	5.0E+03	1.5E-01	7.9E+05	9.3E-04
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	1.8E-08	4.2E+02	7.2E-05
118-D-1_Shallow_5	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	4.0E-06	6.4E+03	3.2E-05
118-D-1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.2E-05	5.2E+03	3.7E-05
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	55100.2	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
118-D-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	42151.4	5.0E+04	8.4E-01	6.8E+04	6.2E-01
118-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3600.0	1.0E+04	3.6E-01	1.9E+05	1.9E-02
118-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64100.0	3.3E+05	1.9E-01	1.3E+06	4.9E-02
118-D-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240.0	1.0E+04	2.4E-02	1.4E+04	1.7E-02
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1000.0	5.0E+02	**2.0E+00**	1.3E+05	7.5E-03
118-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	89.0	4.0E+03	2.2E-02	1.6E+03	5.5E-02
118-D-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.3	2.2E+03	1.2E-04	9.2E+02	2.8E-04
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11700.0	4.0E+02	**2.9E+01**	3.8E+04	3.1E-01
118-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8300.0	1.3E+04	6.4E-01	1.1E+05	7.4E-02
118-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14200.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261.0	No Value	--	1.3E+06	2.1E-04
118-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4400.0	5.0E+04	8.8E-02	3.6E+04	1.2E-01
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	293000.0	2.2E+05	**1.3E+00**	5.8E+06	5.1E-02
118-D-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	11.0	1.0E+02	1.1E-01	1.9E+03	5.9E-03
118-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11200.0	3.0E+04	3.7E-01	3.3E+04	3.4E-01
118-D-1_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	3.0E-04	--	2.6E-03
118-D-1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.1	3.6E+03	4.0E-05	9.1E+01	1.6E-03
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1700.0	2.0E+05	8.5E-03	3.6E+08	4.8E-06
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3000.0	No Value	--	No Value	--
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5090.4	5.0E+03	**1.0E+00**	7.9E+05	6.5E-03
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.1	1.7E+06	3.0E-08	4.2E+02	1.2E-04
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	5.2E+04	3.0E-05	6.4E+03	2.4E-04
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	1.6E+04	1.1E-04	5.2E+03	3.3E-04
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62500.0	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
118-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39700.0	5.0E+04	7.9E-01	6.8E+04	5.9E-01
118-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2695.2	1.0E+04	2.7E-01	1.9E+05	1.4E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75217.4	3.3E+05	2.3E-01	1.3E+06	5.7E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	193.2	1.0E+04	1.9E-02	1.4E+04	1.4E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68.0	1.0E+05	6.8E-04	4.5E+04	1.5E-03
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1316.7	5.0E+02	**2.6E+00**	1.3E+05	9.9E-03
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.4	6.1E+04	6.1E-06	3.2E+01	1.2E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10489.7	4.0E+02	**2.6E+01**	3.8E+04	2.8E-01
118-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7233.5	1.3E+04	5.6E-01	1.1E+05	6.5E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	19108.7	5.0E+04	3.8E-01	1.1E+05	1.8E-01
118-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	3614.3	5.0E+04	7.2E-02	3.6E+04	1.0E-01
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	284458.0	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	6.0	1.0E+02	6.0E-02	1.9E+03	3.2E-03
118-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	310.0	2.0E+03	1.6E-01	1.4E+04	2.2E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	12366.2	3.0E+04	4.1E-01	3.3E+04	3.8E-01
118-D-1_Staging Pile Area Footprint	Rad	Rads SOF	---	pCi/g	--	--	7.2E-05	--	1.5E-02
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1800.0	2.0E+05	9.0E-03	3.6E+08	5.1E-06
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3400.0	No Value	--	No Value	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2319.6	5.0E+03	4.6E-01	7.9E+05	3.0E-03
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	1.7E+06	8.0E-07	4.2E+02	3.2E-03
118-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.8	5.2E+04	1.5E-05	6.4E+03	1.2E-04
118-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.8	1.6E+04	5.0E-05	5.2E+03	1.5E-04
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	54073.2	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
118-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38513.1	5.0E+04	7.7E-01	6.8E+04	5.7E-01
118-D-4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3133.2	1.0E+04	3.1E-01	1.9E+05	1.7E-02
118-D-4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	75116.4	3.3E+05	2.3E-01	1.3E+06	5.7E-02
118-D-4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	277.1	1.0E+04	2.8E-02	1.4E+04	2.0E-02
118-D-4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1546.4	5.0E+02	**3.1E+00**	1.3E+05	1.2E-02
118-D-4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200.0	4.0E+03	5.0E-02	1.6E+03	1.2E-01
118-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.0	2.2E+03	1.5E-05	9.2E+02	3.6E-05
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12931.1	4.0E+02	**3.2E+01**	3.8E+04	3.4E-01
118-D-4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7559.9	1.3E+04	5.8E-01	1.1E+05	6.8E-02
118-D-4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14932.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-D-4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3760.3	5.0E+04	7.5E-02	3.6E+04	1.1E-01
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	352925.0	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	39.9	1.0E+02	4.0E-01	1.9E+03	2.1E-02
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500.0	2.0E+03	2.5E-01	1.4E+04	3.6E-02
118-D-4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13143.9	3.0E+04	4.4E-01	3.3E+04	4.0E-01
118-D-4_Overburden	Rad	Rads SOF	---	pCi/g	--	--	6.8E-05	--	2.7E-04
118-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1797.0	5.0E+03	3.6E-01	7.9E+05	2.3E-03
118-D-4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.7	5.2E+04	1.4E-05	6.4E+03	1.1E-04
118-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.6	1.6E+04	3.9E-05	5.2E+03	1.2E-04
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66685.6	2.0E+03	**3.3E+01**	3.1E+04	**2.1E+00**
118-D-4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47811.4	5.0E+04	9.6E-01	6.8E+04	7.1E-01
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2400.0	5.0E+03	4.8E-01	6.0E+03	4.0E-01
118-D-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2983.1	1.0E+04	3.0E-01	1.9E+05	1.6E-02
118-D-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70991.1	3.3E+05	2.2E-01	1.3E+06	5.4E-02
118-D-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231.3	1.0E+04	2.3E-02	1.4E+04	1.7E-02
118-D-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1189.3	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
118-D-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	397.5	4.0E+03	9.9E-02	1.6E+03	2.4E-01
118-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.4	2.2E+03	1.7E-04	9.2E+02	4.1E-04
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12376.7	4.0E+02	**3.1E+01**	3.8E+04	3.2E-01
118-D-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8104.3	1.3E+04	6.2E-01	1.1E+05	7.3E-02
118-D-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15591.7	5.0E+04	3.1E-01	1.1E+05	1.5E-01
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.3	1.5E+04	2.2E-05	1.7E+03	1.9E-04
118-D-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7908.1	5.0E+04	1.6E-01	3.6E+04	2.2E-01
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	342787.7	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65.5	1.0E+02	6.6E-01	1.9E+03	3.5E-02
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582.1	2.0E+03	2.9E-01	1.4E+04	4.2E-02
118-D-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12565.5	3.0E+04	4.2E-01	3.3E+04	3.9E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	No Value	--	No Value	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.3	1.3E+04	2.5E-05	6.3E+03	5.0E-05
118-D-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.8E-04	--	2.1E-02
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	3.6E+03	5.1E-04	9.1E+01	2.0E-02
118-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2041.6	5.0E+03	4.1E-01	7.9E+05	2.6E-03
118-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.6	5.2E+04	1.1E-05	6.4E+03	9.1E-05
118-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.4E-05	5.2E+03	1.3E-04
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80969.4	2.0E+03	**4.1E+01**	3.1E+04	**2.6E+00**
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59118.4	5.0E+04	**1.2E+00**	6.8E+04	8.7E-01
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900.0	5.0E+03	1.8E-01	6.0E+03	1.5E-01
118-D-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3300.0	1.0E+04	3.3E-01	1.9E+05	1.7E-02
118-D-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	77300.0	3.3E+05	2.3E-01	1.3E+06	5.8E-02
118-D-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200.0	1.0E+04	2.0E-02	1.4E+04	1.4E-02
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1300.0	5.0E+02	**2.6E+00**	1.3E+05	9.8E-03
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	4660.0	4.0E+03	**1.2E+00**	1.6E+03	**2.9E+00**
118-D-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	6.8E-05	9.2E+02	1.6E-04
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48100.0	4.0E+02	**1.2E+02**	3.8E+04	**1.3E+00**
118-D-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11000.0	1.3E+04	8.5E-01	1.1E+05	9.9E-02
118-D-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15500.0	5.0E+04	3.1E-01	1.1E+05	1.5E-01
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.5	1.5E+04	3.1E-05	1.7E+03	2.6E-04
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170.0	No Value	--	1.3E+06	1.4E-04
118-D-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3700.0	5.0E+04	7.4E-02	3.6E+04	1.0E-01
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399000.0	2.2E+05	**1.8E+00**	5.8E+06	6.9E-02
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58.3	1.0E+02	5.8E-01	1.9E+03	3.1E-02
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500.0	2.0E+03	2.5E-01	1.4E+04	3.6E-02
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27300.0	3.0E+04	9.1E-01	3.3E+04	8.4E-01
118-D-4_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	1.6E-04	--	6.4E-04
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5460.0	2.0E+05	2.7E-02	3.6E+08	1.5E-05
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10500.0	No Value	--	No Value	--
118-D-4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2220.7	5.0E+03	4.4E-01	7.9E+05	2.8E-03
118-D-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	9.6E-06	6.4E+03	7.8E-05
118-D-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.8E-05	5.2E+03	1.5E-04
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92400.0	2.0E+03	**4.6E+01**	3.1E+04	**3.0E+00**
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59600.0	5.0E+04	**1.2E+00**	6.8E+04	8.8E-01
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	561.7	5.0E+03	1.1E-01	6.0E+03	9.4E-02
118-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2763.2	1.0E+04	2.8E-01	1.9E+05	1.5E-02
118-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	56467.7	3.3E+05	1.7E-01	1.3E+06	4.3E-02
118-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	654.7	1.0E+04	6.6E-02	1.4E+04	4.7E-02
118-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	76.5	4.0E+03	1.9E-02	1.6E+03	4.7E-02
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8598.2	4.0E+02	**2.2E+01**	3.8E+04	2.3E-01
118-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9244.6	1.3E+04	7.1E-01	1.1E+05	8.3E-02
118-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12492.8	5.0E+04	2.5E-01	1.1E+05	1.2E-01
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	217.5	No Value	--	1.3E+06	1.8E-04
118-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3715.9	5.0E+04	7.4E-02	3.6E+04	1.0E-01
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	275203.8	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40.7	1.0E+02	4.1E-01	1.9E+03	2.2E-02
118-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	370.0	2.0E+03	1.9E-01	1.4E+04	2.7E-02
118-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12132.1	3.0E+04	4.0E-01	3.3E+04	3.7E-01
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	5.6E-05	9.1E+01	2.2E-03
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50941.1	2.0E+03	**2.6E+01**	3.1E+04	**1.6E+00**
118-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	40220.4	5.0E+04	8.0E-01	6.8E+04	5.9E-01
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	441.7	5.0E+03	8.8E-02	6.0E+03	7.4E-02
118-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2659.7	1.0E+04	2.7E-01	1.9E+05	1.4E-02
118-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60857.6	3.3E+05	1.8E-01	1.3E+06	4.6E-02
118-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	672.4	1.0E+04	6.7E-02	1.4E+04	4.8E-02
118-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1500.0	5.0E+02	**3.0E+00**	1.3E+05	1.1E-02
118-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	75.9	4.0E+03	1.9E-02	1.6E+03	4.7E-02
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8937.4	4.0E+02	**2.2E+01**	3.8E+04	2.3E-01
118-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9627.7	1.3E+04	7.4E-01	1.1E+05	8.6E-02
118-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	12558.1	5.0E+04	2.5E-01	1.1E+05	1.2E-01
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235.0	No Value	--	1.3E+06	1.9E-04
118-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3611.1	5.0E+04	7.2E-02	3.6E+04	1.0E-01
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281366.7	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
118-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.6	1.0E+02	7.6E-02	1.9E+03	4.1E-03
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950.0	2.0E+03	4.8E-01	1.4E+04	6.8E-02
118-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10849.9	3.0E+04	3.6E-01	3.3E+04	3.3E-01
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20.2	No Value	--	No Value	--
118-D-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.1E-05	--	2.8E-03
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.3	3.6E+03	7.1E-05	9.1E+01	2.8E-03
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54073.4	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
118-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41880.9	5.0E+04	8.4E-01	6.8E+04	6.2E-01
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440.0	5.0E+03	8.8E-02	6.0E+03	7.4E-02
118-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2500.0	1.0E+04	2.5E-01	1.9E+05	1.3E-02
118-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53000.0	3.3E+05	1.6E-01	1.3E+06	4.0E-02
118-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	930.0	1.0E+04	9.3E-02	1.4E+04	6.7E-02
118-D-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54.0	4.0E+03	1.4E-02	1.6E+03	3.3E-02
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8500.0	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
118-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9800.0	1.3E+04	7.5E-01	1.1E+05	8.8E-02
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	6.1E+03	1.8E-04	8.1E+02	1.4E-03
118-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13000.0	5.0E+04	2.6E-01	1.1E+05	1.2E-01
118-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3400.0	5.0E+04	6.8E-02	3.6E+04	9.6E-02
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290000.0	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
118-D-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.1	1.0E+02	6.1E-02	1.9E+03	3.3E-03
118-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320.0	2.0E+03	1.6E-01	1.4E+04	2.3E-02
118-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10000.0	3.0E+04	3.3E-01	3.3E+04	3.1E-01
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113.0	No Value	--	No Value	--
118-D-5_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	1.8E-04	--	1.7E-03
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.2	1.7E+06	8.9E-08	4.2E+02	3.6E-04
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62000.0	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
118-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43000.0	5.0E+04	8.6E-01	6.8E+04	6.3E-01
118-D-6:4_Shallow_1	non-Rad	Aroclor HI	---	ug/kg	--	--	4.1E-04	--	1.1E-02
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	4.0E+04	2.1E-04	1.5E+03	5.6E-03
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	4.0E+04	2.0E-04	1.5E+03	5.4E-03
118-D-6:4_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,091	1.0E+04	2.1E-01	1.9E+05	1.1E-02
118-D-6:4_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,434	3.3E+05	1.9E-01	1.3E+06	4.7E-02
118-D-6:4_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	247	1.0E+04	2.5E-02	1.4E+04	1.8E-02
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,800	5.0E+02	**3.6E+00**	1.3E+05	1.4E-02
118-D-6:4_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	95	4.0E+03	2.4E-02	1.6E+03	5.8E-02
118-D-6:4_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.071	2.2E+03	3.2E-05	9.2E+02	7.7E-05
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,251	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
118-D-6:4_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,140	1.3E+04	7.0E-01	1.1E+05	8.2E-02
118-D-6:4_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,162	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	No Value	--	1.3E+06	3.2E-04
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	5.0E+04	2.7E-01	3.6E+04	3.7E-01
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	323,193	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	1.0E+02	3.1E-01	1.9E+03	1.6E-02
118-D-6:4_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	312	2.0E+03	1.6E-01	1.4E+04	2.2E-02
118-D-6:4_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,531	3.0E+04	3.5E-01	3.3E+04	3.2E-01
118-D-6:4_Shallow_1	Rad	Rads SOF	---	pCi/g	--	--	8.7E-05	--	3.9E-04
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630.0	2.0E+03	3.2E-01	5.0E+04	1.3E-02
118-D-6:4_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1982.3	5.0E+03	4.0E-01	7.9E+05	2.5E-03
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.0	1.7E+06	2.0E-08	4.2E+02	8.0E-05
118-D-6:4_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.7	5.2E+04	1.3E-05	6.4E+03	1.0E-04
118-D-6:4_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.2E-05	5.2E+03	1.3E-04
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	77926.9	2.0E+03	**3.9E+01**	3.1E+04	**2.5E+00**

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-D-6:4_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	49761.6	5.0E+04	1.0E+00	6.8E+04	7.3E-01
118-D-6:4_Shallow_2	non-Rad	Aroclor HI	---	ug/kg	--	--	7.0E-04	--	1.9E-02
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21.3	4.0E+04	5.3E-04	1.5E+03	1.4E-02
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	4.0E+04	1.7E-04	1.5E+03	4.6E-03
118-D-6:4_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3057.1	1.0E+04	3.1E-01	1.9E+05	1.6E-02
118-D-6:4_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67361.9	3.3E+05	2.0E-01	1.3E+06	5.1E-02
118-D-6:4_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	273.6	1.0E+04	2.7E-02	1.4E+04	2.0E-02
118-D-6:4_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	62.1	4.0E+03	1.6E-02	1.6E+03	3.8E-02
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	2.2E+03	1.3E-03	9.2E+02	3.1E-03
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10049.8	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
118-D-6:4_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8093.2	1.3E+04	6.2E-01	1.1E+05	7.3E-02
118-D-6:4_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	21766.1	5.0E+04	4.4E-01	1.1E+05	2.0E-01
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	1.5E+04	9.6E-05	1.7E+03	8.1E-04
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	558.7	No Value	--	1.3E+06	4.5E-04
118-D-6:4_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5072.3	5.0E+04	1.0E-01	3.6E+04	1.4E-01
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328312.2	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1200.0	1.0E+02	**1.2E+01**	1.9E+03	6.4E-01
118-D-6:4_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	285.0	2.0E+03	1.4E-01	1.4E+04	2.0E-02
118-D-6:4_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10571.4	3.0E+04	3.5E-01	3.3E+04	3.2E-01
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.2	1.3E+04	1.7E-05	6.3E+03	3.3E-05
118-D-6:4_Shallow_2	Rad	Rads SOF	---	pCi/g	--	--	1.6E-03	--	8.5E-03
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.4	3.6E+03	1.0E-04	9.1E+01	4.0E-03
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3344.5	5.0E+03	6.7E-01	7.9E+05	4.3E-03
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.1	1.7E+06	4.4E-08	4.2E+02	1.7E-04
118-D-6:4_Shallow_2	Rad	Uranium-234	13966-29-5	pCi/g	0.9	5.2E+04	1.8E-05	6.4E+03	1.5E-04
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	1.6E+04	7.2E-05	5.2E+03	2.2E-04
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	68233.0	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
118-D-6:4_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46961.4	5.0E+04	9.4E-01	6.8E+04	6.9E-01
118-DR-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2229.5	1.0E+04	2.2E-01	1.9E+05	1.2E-02
118-DR-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56290.6	3.3E+05	1.7E-01	1.3E+06	4.3E-02
118-DR-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1045.3	1.0E+04	1.1E-01	1.4E+04	7.5E-02
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1226.3	5.0E+02	**2.5E+00**	1.3E+05	9.2E-03
118-DR-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	57.8	4.0E+03	1.4E-02	1.6E+03	3.6E-02
118-DR-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	5.0E-05	9.2E+02	1.2E-04
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7079.8	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
118-DR-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8719.8	1.3E+04	6.7E-01	1.1E+05	7.8E-02
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.8	6.1E+03	1.3E-04	8.1E+02	9.6E-04
118-DR-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13464.2	5.0E+04	2.7E-01	1.1E+05	1.3E-01
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248.4	No Value	--	1.3E+06	2.0E-04
118-DR-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4013.9	5.0E+04	8.0E-02	3.6E+04	1.1E-01
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284561.1	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
118-DR-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.2	1.0E+02	7.2E-02	1.9E+03	3.8E-03
118-DR-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9930.0	3.0E+04	3.3E-01	3.3E+04	3.1E-01
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124.0	No Value	--	No Value	--
118-DR-1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.8E-04	--	1.1E-03
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54963.7	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
118-DR-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41443.6	5.0E+04	8.3E-01	6.8E+04	6.1E-01
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1500.0	5.0E+03	3.0E-01	6.0E+03	2.5E-01
118-DR-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2800.0	1.0E+04	2.8E-01	1.9E+05	1.5E-02
118-DR-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62000.0	3.3E+05	1.9E-01	1.3E+06	4.7E-02
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	1.8E+04	2.4E-04	3.9E+04	1.1E-04
118-DR-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	480.0	1.0E+04	4.8E-02	1.4E+04	3.4E-02
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1100.0	5.0E+02	**2.2E+00**	1.3E+05	8.3E-03
118-DR-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	79.0	4.0E+03	2.0E-02	1.6E+03	4.9E-02
118-DR-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.0	2.2E+03	2.2E-05	9.2E+02	5.4E-05
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7300.0	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
118-DR-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7600.0	1.3E+04	5.9E-01	1.1E+05	6.8E-02
118-DR-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14000.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.5	No Value	--	No Value	--
118-DR-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3700.0	5.0E+04	7.4E-02	3.6E+04	1.0E-01
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290000.0	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
118-DR-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.4	1.0E+02	6.4E-02	1.9E+03	3.4E-03
118-DR-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9200.0	3.0E+04	3.1E-01	3.3E+04	2.8E-01
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	No Value	--	No Value	--
118-DR-1_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	2.2E-05	--	5.4E-05
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54000.0	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
118-DR-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40000.0	5.0E+04	8.0E-01	6.8E+04	5.9E-01
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33.7	4.0E+04	8.4E-04	1.5E+03	2.3E-02
118-DR-2:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3200.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
118-DR-2:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67900.0	3.3E+05	2.1E-01	1.3E+06	5.1E-02
118-DR-2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.5	2.2E+03	2.3E-04	9.2E+02	5.5E-04
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11700.0	4.0E+02	**2.9E+01**	3.8E+04	3.1E-01
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	2.0E-05	8.1E+02	1.5E-04
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.5	1.5E+04	3.1E-05	1.7E+03	2.6E-04
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699.4	No Value	--	1.3E+06	5.6E-04
118-DR-2:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10111.6	5.0E+04	2.0E-01	3.6E+04	2.8E-01
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164.3	1.0E+02	**1.6E+00**	1.9E+03	8.8E-02
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	No Value	--	No Value	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.2	1.3E+04	1.4E-05	6.3E+03	2.9E-05
118-DR-2:2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	6.9E-04	--	1.1E-02
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	2.2E+04	1.1E-04	5.4E+03	4.5E-04
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.9	3.6E+03	2.5E-04	9.1E+01	9.7E-03
118-DR-2:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1474.4	5.0E+03	3.0E-01	7.9E+05	1.9E-03
118-DR-2:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.4	5.2E+04	8.3E-06	6.4E+03	6.7E-05
118-DR-2:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	3.2E-05	5.2E+03	9.7E-05
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720.0	5.0E+03	1.4E-01	6.0E+03	1.2E-01
120-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2309.9	1.0E+04	2.3E-01	1.9E+05	1.2E-02
120-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	73265.0	3.3E+05	2.2E-01	1.3E+06	5.5E-02
120-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251.1	1.0E+04	2.5E-02	1.4E+04	1.8E-02
120-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2703.5	5.0E+02	**5.4E+00**	1.3E+05	2.0E-02
120-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	117.0	4.0E+03	2.9E-02	1.6E+03	7.2E-02
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7074.9	4.0E+02	**1.8E+01**	3.8E+04	1.9E-01
120-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9385.5	1.3E+04	7.2E-01	1.1E+05	8.4E-02
120-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15512.4	5.0E+04	3.1E-01	1.1E+05	1.5E-01
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220.0	No Value	--	1.3E+06	1.8E-04
120-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6162.2	5.0E+04	1.2E-01	3.6E+04	1.7E-01
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339487.6	2.2E+05	**1.5E+00**	5.8E+06	5.9E-02
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111.0	1.0E+02	**1.1E+00**	1.9E+03	6.0E-02
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	604.5	2.0E+03	3.0E-01	1.4E+04	4.3E-02
120-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9825.7	3.0E+04	3.3E-01	3.3E+04	3.0E-01
120-D-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9910.0	No Value	--	3.4E+08	2.9E-05
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554.0	No Value	--	No Value	--
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	77181.5	2.0E+03	**3.9E+01**	3.1E+04	**2.5E+00**
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52904.3	5.0E+04	**1.1E+00**	6.8E+04	7.8E-01
120-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1300.0	1.0E+04	1.3E-01	1.9E+05	6.9E-03
120-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	61900.0	3.3E+05	1.9E-01	1.3E+06	4.7E-02
120-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310.0	1.0E+04	3.1E-02	1.4E+04	2.2E-02
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1000.0	5.0E+02	**2.0E+00**	1.3E+05	7.5E-03
120-D-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160.0	4.0E+03	4.0E-02	1.6E+03	9.8E-02
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	4500.0	4.0E+02	**1.1E+01**	3.8E+04	1.2E-01
120-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9300.0	1.3E+04	7.2E-01	1.1E+05	8.3E-02
120-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14200.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
120-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1700.0	5.0E+04	3.4E-02	3.6E+04	4.8E-02
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316000.0	2.2E+05	**1.4E+00**	5.8E+06	5.5E-02
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560.0	2.0E+03	2.8E-01	1.4E+04	4.0E-02
120-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9800.0	3.0E+04	3.3E-01	3.3E+04	3.0E-01
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	80200.0	2.0E+03	**4.0E+01**	3.1E+04	**2.6E+00**

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
120-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48800.0	5.0E+04	9.8E-01	6.8E+04	7.2E-01
122-DR-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3100.0	1.0E+04	3.1E-01	1.9E+05	1.6E-02
122-DR-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66900.0	3.3E+05	2.0E-01	1.3E+06	5.1E-02
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66.0	1.8E+04	3.7E-03	6.4E+04	1.0E-03
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30.0	1.8E+04	1.7E-03	7.6E+04	3.9E-04
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36.0	1.8E+04	2.0E-03	3.9E+04	9.2E-04
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25.0	1.8E+04	1.4E-03	3.9E+04	6.4E-04
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130.0	1.0E+05	1.3E-03	4.5E+04	2.9E-03
122-DR-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	190.0	4.0E+03	4.8E-02	1.6E+03	1.2E-01
122-DR-1:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.9E-05	9.2E+02	6.8E-05
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11900.0	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55.0	1.8E+04	3.1E-03	4.5E+04	1.2E-03
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19.0	No Value	--	No Value	--
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110.0	1.8E+04	6.1E-03	8.4E+05	1.3E-04
122-DR-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7400.0	5.0E+04	1.5E-01	3.6E+04	2.1E-01
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12500.0	2.0E+03	**6.3E+00**	5.2E+05	2.4E-02
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100.0	1.8E+04	5.6E-03	6.0E+05	1.7E-04
122-DR-1:2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.3E-05	--	3.0E-04
122-DR-1:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1940.9	5.0E+03	3.9E-01	7.9E+05	2.5E-03
122-DR-1:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.7	5.2E+04	1.3E-05	6.4E+03	1.0E-04
122-DR-1:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.7	1.6E+04	4.2E-05	5.2E+03	1.3E-04
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	No Value	--	4.0E+02	3.0E-03
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.9	No Value	--	8.8E+02	9.8E-04
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	832.5	5.0E+03	1.7E-01	6.0E+03	1.4E-01
126-D-2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2644.1	1.0E+04	2.6E-01	1.9E+05	1.4E-02
126-D-2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	81680.4	3.3E+05	2.5E-01	1.3E+06	6.2E-02
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	1.8E+04	4.9E-04	6.4E+04	1.4E-04
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	1.8E+04	4.7E-04	7.6E+04	1.1E-04
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10.0	1.8E+04	5.6E-04	3.9E+04	2.6E-04
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	1.8E+04	3.3E-04	3.9E+04	1.5E-04
126-D-2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	802.0	1.0E+04	8.0E-02	1.4E+04	5.8E-02
126-D-2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2076.8	5.0E+02	**4.2E+00**	1.3E+05	1.6E-02
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7899.5	4.0E+02	**2.0E+01**	3.8E+04	2.1E-01
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	15.5	1.8E+04	8.6E-04	4.5E+04	3.5E-04
126-D-2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8810.4	1.3E+04	6.8E-01	1.1E+05	7.9E-02
126-D-2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12859.5	5.0E+04	2.6E-01	1.1E+05	1.2E-01
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16.0	1.8E+04	8.9E-04	3.6E+04	4.5E-04
126-D-2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3586.2	5.0E+04	7.2E-02	3.6E+04	1.0E-01
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313316.2	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
126-D-2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	9.4	1.0E+02	9.4E-02	1.9E+03	5.0E-03
126-D-2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	334.0	2.0E+03	1.7E-01	1.4E+04	2.4E-02
126-D-2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10525.3	3.0E+04	3.5E-01	3.3E+04	3.2E-01
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27.0	1.8E+04	1.5E-03	6.0E+05	4.5E-05
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	61719.9	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
126-D-2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	41994.4	5.0E+04	8.4E-01	6.8E+04	6.2E-01
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	No Value	--	4.0E+02	1.8E-02
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	94.6	No Value	--	8.8E+02	1.1E-01
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.6	1.0E+03	5.7E-04	5.0E+04	1.1E-05
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13.0	2.9E+04	4.5E-04	6.8E+05	1.9E-05
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577.0	5.0E+03	1.2E-01	6.0E+03	9.6E-02
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	4.0E+04	1.3E-04	1.5E+03	3.6E-03
126-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2825.7	1.0E+04	2.8E-01	1.9E+05	1.5E-02
126-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	86325.1	3.3E+05	2.6E-01	1.3E+06	6.5E-02
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14.4	1.8E+04	8.0E-04	6.4E+04	2.3E-04
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	23.8	1.8E+04	1.3E-03	7.6E+04	3.1E-04
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	22.6	1.8E+04	1.3E-03	3.9E+04	5.8E-04
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13.1	1.8E+04	7.3E-04	3.9E+04	3.3E-04
126-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	761.1	1.0E+04	7.6E-02	1.4E+04	5.5E-02
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	187.9	1.0E+05	1.9E-03	4.5E+04	4.1E-03
126-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3041.8	5.0E+02	**6.1E+00**	1.3E+05	2.3E-02
126-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	43.0	4.0E+03	1.1E-02	1.6E+03	2.6E-02
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.5	1.0E+03	4.5E-04	5.0E+04	9.0E-06
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7872.0	4.0E+02	**2.0E+01**	3.8E+04	2.1E-01
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	37.5	1.8E+04	2.1E-03	4.5E+04	8.4E-04
126-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10752.2	1.3E+04	8.3E-01	1.1E+05	9.6E-02
126-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14151.1	5.0E+04	2.8E-01	1.1E+05	1.3E-01
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26.0	1.8E+04	1.4E-03	4.4E+04	5.9E-04
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.4	No Value	--	2.1E+01	2.0E-02
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58.0	1.8E+04	3.2E-03	8.4E+05	6.9E-05
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	No Value	--	No Value	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	1.8E+04	3.3E-04	3.6E+04	1.7E-04
126-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4228.6	5.0E+04	8.5E-02	3.6E+04	1.2E-01
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	354940.2	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	16.5	1.0E+02	1.7E-01	1.9E+03	8.8E-03
126-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	316.7	2.0E+03	1.6E-01	1.4E+04	2.3E-02
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14.0	2.9E+04	4.8E-04	1.0E+05	1.4E-04
126-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11612.9	3.0E+04	3.9E-01	3.3E+04	3.6E-01
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37.2	1.8E+04	2.1E-03	6.0E+05	6.2E-05
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	78289.5	2.0E+03	**3.9E+01**	3.1E+04	**2.5E+00**
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52411.8	5.0E+04	**1.1E+00**	6.8E+04	7.7E-01
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	91.5	2.9E+04	3.2E-03	6.0E+03	1.5E-02
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	No Value	--	4.0E+02	7.3E-03
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75.0	No Value	--	8.8E+02	8.5E-02
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240.0	2.0E+04	1.2E-02	1.1E+06	2.2E-04
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	2.9E+04	3.2E-04	6.8E+05	1.4E-05
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620.0	5.0E+03	1.2E-01	6.0E+03	1.0E-01
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	4.0E+04	2.0E-04	1.5E+03	5.4E-03
126-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3000.0	1.0E+04	3.0E-01	1.9E+05	1.6E-02
126-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	120000.0	3.3E+05	3.6E-01	1.3E+06	9.1E-02
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35.1	1.8E+04	2.0E-03	6.4E+04	5.5E-04
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35.1	1.8E+04	2.0E-03	7.6E+04	4.6E-04
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24.1	1.8E+04	1.3E-03	3.9E+04	6.1E-04
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16.1	1.8E+04	8.9E-04	3.9E+04	4.1E-04
126-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	630.0	1.0E+04	6.3E-02	1.4E+04	4.5E-02
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1280.0	1.0E+05	1.3E-02	4.5E+04	2.8E-02
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7900.0	5.0E+02	**1.6E+01**	1.3E+05	5.9E-02
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.3	1.0E+03	3.1E-04	5.0E+04	6.2E-06
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7800.0	4.0E+02	**2.0E+01**	3.8E+04	2.0E-01
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22.7	1.8E+04	1.3E-03	4.5E+04	5.1E-04
126-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9700.0	1.3E+04	7.5E-01	1.1E+05	8.7E-02
126-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14000.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.4	No Value	--	7.1E+02	5.5E-04
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221.0	1.8E+04	1.2E-02	8.4E+05	2.6E-04
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63.2	2.9E+04	2.2E-03	1.8E+05	3.6E-04
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	No Value	--	No Value	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13.0	1.8E+04	7.2E-04	3.6E+04	3.6E-04
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72000.0	5.0E+04	**1.4E+00**	3.6E+04	**2.0E+00**
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360000.0	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23.0	1.0E+02	2.3E-01	1.9E+03	1.2E-02
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.9	No Value	--	2.2E+04	3.9E-05
126-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330.0	2.0E+03	1.7E-01	1.4E+04	2.4E-02

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105.0	2.9E+04	3.6E-03	1.0E+05	1.1E-03
126-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12000.0	3.0E+04	4.0E-01	3.3E+04	3.7E-01
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	63.8	1.8E+04	3.5E-03	6.0E+05	1.1E-04
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69000.0	2.0E+05	3.5E-01	3.6E+08	1.9E-04
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160000.0	No Value	--	No Value	--
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76000.0	2.0E+03	**3.8E+01**	3.1E+04	**2.4E+00**
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50000.0	5.0E+04	**1.0E+00**	6.8E+04	7.4E-01
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.5	No Value	--	4.0E+02	1.3E-03
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	No Value	--	No Value	--
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36.0	4.0E+04	9.0E-04	1.5E+03	2.4E-02
128-D-2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2903.7	1.0E+04	2.9E-01	1.9E+05	1.5E-02
128-D-2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	82982.7	3.3E+05	2.5E-01	1.3E+06	6.3E-02
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77.0	1.8E+04	4.3E-03	7.6E+04	1.0E-03
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32.0	1.8E+04	1.8E-03	3.9E+04	8.2E-04
128-D-2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	204.9	1.0E+04	2.1E-02	1.4E+04	1.5E-02
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81.0	1.0E+05	8.1E-04	4.5E+04	1.8E-03
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1816.7	5.0E+02	**3.6E+00**	1.3E+05	1.4E-02
128-D-2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	58.7	4.0E+03	1.5E-02	1.6E+03	3.6E-02
128-D-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	1.1E-04	9.2E+02	2.6E-04
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.9	No Value	--	1.7E+05	5.3E-06
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11002.6	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
128-D-2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7524.6	1.3E+04	5.8E-01	1.1E+05	6.8E-02
128-D-2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15094.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400.0	1.0E+05	4.0E-03	No Value	--
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.6	No Value	--	1.0E+06	6.2E-07
128-D-2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4792.7	5.0E+04	9.6E-02	3.6E+04	1.4E-01
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	341770.5	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41.0	1.0E+02	4.1E-01	1.9E+03	2.2E-02
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	No Value	--	1.7E+05	1.3E-05
128-D-2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	310.0	2.0E+03	1.6E-01	1.4E+04	2.2E-02
128-D-2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11886.7	3.0E+04	4.0E-01	3.3E+04	3.7E-01
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1100.0	5.2E+02	**2.1E+00**	1.9E+03	5.8E-01
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	2.0E+05	7.0E-06	5.2E+06	2.7E-07
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19691.0	2.0E+05	9.9E-02	3.6E+08	5.5E-05
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16599.3	No Value	--	No Value	--
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	53369.4	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	No Value	--	8.3E+05	3.3E-06
128-D-2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	45366.0	5.0E+04	9.1E-01	6.8E+04	6.7E-01
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10.0	No Value	--	No Value	--
128-D-2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2317.9	1.0E+04	2.3E-01	1.9E+05	1.2E-02
128-D-2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	62230.5	3.3E+05	1.9E-01	1.3E+06	4.7E-02
128-D-2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	146.8	1.0E+04	1.5E-02	1.4E+04	1.1E-02
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1200.0	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
128-D-2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	131.6	4.0E+03	3.3E-02	1.6E+03	8.1E-02
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11152.9	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
128-D-2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6447.5	1.3E+04	5.0E-01	1.1E+05	5.8E-02
128-D-2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13949.0	5.0E+04	2.8E-01	1.1E+05	1.3E-01
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154.0	No Value	--	1.3E+06	1.2E-04
128-D-2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3493.9	5.0E+04	7.0E-02	3.6E+04	9.8E-02
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	277702.3	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18.5	1.0E+02	1.9E-01	1.9E+03	9.9E-03
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10.0	No Value	--	1.7E+05	6.0E-05
128-D-2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	262.8	2.0E+03	1.3E-01	1.4E+04	1.9E-02
128-D-2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10946.6	3.0E+04	3.7E-01	3.3E+04	3.4E-01
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190.0	2.0E+03	9.5E-02	5.0E+04	3.8E-03
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.2	3.6E+03	6.8E-05	9.1E+01	2.7E-03
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1500.0	2.0E+05	7.5E-03	3.6E+08	4.2E-06
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3300.0	No Value	--	No Value	--
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	50094.9	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
128-D-2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36764.9	5.0E+04	7.4E-01	6.8E+04	5.4E-01
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.9	No Value	--	1.7E+05	5.4E-06
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18.0	2.0E+04	9.0E-04	1.1E+06	1.6E-05
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13.0	No Value	--	No Value	--
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24.0	4.0E+04	6.0E-04	1.5E+03	1.6E-02
130-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2031.3	1.0E+04	2.0E-01	1.9E+05	1.1E-02
130-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	72121.2	3.3E+05	2.2E-01	1.3E+06	5.5E-02
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	1.8E+04	2.1E-04	6.4E+04	5.8E-05
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16.4	1.8E+04	9.1E-04	7.6E+04	2.1E-04
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69.0	1.8E+04	3.8E-03	3.9E+04	1.8E-03
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25.0	1.8E+04	1.4E-03	3.9E+04	6.4E-04
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51.0	1.0E+05	5.1E-04	4.5E+04	1.1E-03
130-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1641.7	5.0E+02	**3.3E+00**	1.3E+05	1.2E-02
130-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	80.7	4.0E+03	2.0E-02	1.6E+03	5.0E-02
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7451.9	4.0E+02	**1.9E+01**	3.8E+04	2.0E-01
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43.0	1.8E+04	2.4E-03	4.5E+04	9.7E-04
130-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8788.9	1.3E+04	6.8E-01	1.1E+05	7.9E-02
130-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15835.1	5.0E+04	3.2E-01	1.1E+05	1.5E-01
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63.0	1.8E+04	3.5E-03	3.6E+04	1.8E-03
130-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10060.2	5.0E+04	2.0E-01	3.6E+04	2.8E-01
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	306040.8	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
130-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	11.1	1.0E+02	1.1E-01	1.9E+03	5.9E-03
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	No Value	--	1.7E+05	1.1E-05
130-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	273.1	2.0E+03	1.4E-01	1.4E+04	2.0E-02
130-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9743.5	3.0E+04	3.3E-01	3.3E+04	3.0E-01
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56.0	1.8E+04	3.1E-03	6.0E+05	9.3E-05
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	2.0E+05	1.4E-05	5.2E+06	5.2E-07
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3333.3	2.0E+05	1.7E-02	3.6E+08	9.4E-06
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9897.8	No Value	--	No Value	--
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	51858.5	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52217.5	5.0E+04	**1.0E+00**	6.8E+04	7.7E-01
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	No Value	--	1.7E+05	1.8E-05
130-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1600.0	1.0E+04	1.6E-01	1.9E+05	8.4E-03
130-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59600.0	3.3E+05	1.8E-01	1.3E+06	4.5E-02
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130.0	1.0E+05	1.3E-03	4.5E+04	2.9E-03
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1400.0	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
130-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	73.0	4.0E+03	1.8E-02	1.6E+03	4.5E-02
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5200.0	4.0E+02	**1.3E+01**	3.8E+04	1.4E-01
130-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11400.0	1.3E+04	8.8E-01	1.1E+05	1.0E-01
130-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14800.0	5.0E+04	3.0E-01	1.1E+05	1.4E-01
130-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3200.0	5.0E+04	6.4E-02	3.6E+04	9.0E-02
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	305000.0	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	No Value	--	1.7E+05	1.9E-05
130-D-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280.0	2.0E+03	1.4E-01	1.4E+04	2.0E-02
130-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9100.0	3.0E+04	3.0E-01	3.3E+04	2.8E-01
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64000.0	2.0E+05	3.2E-01	3.6E+08	1.8E-04
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110000.0	No Value	--	No Value	--

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82200.0	2.0E+03	**4.1E+01**	3.1E+04	**2.6E+00**
130-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43900.0	5.0E+04	8.8E-01	6.8E+04	6.5E-01
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	No Value	--	1.7E+05	1.2E-05
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14.0	4.0E+04	3.5E-04	1.5E+03	9.5E-03
130-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2871.1	1.0E+04	2.9E-01	1.9E+05	1.5E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	102564.9	3.3E+05	3.1E-01	1.3E+06	7.8E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11.0	1.8E+04	6.1E-04	3.9E+04	2.8E-04
130-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142.5	1.0E+04	1.4E-02	1.4E+04	1.0E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1900.0	1.0E+05	1.9E-02	4.5E+04	4.2E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2147.5	5.0E+02	**4.3E+00**	1.3E+05	1.6E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	127.7	4.0E+03	3.2E-02	1.6E+03	7.8E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	13221.8	4.0E+02	**3.3E+01**	3.8E+04	3.5E-01
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29.0	1.8E+04	1.6E-03	4.5E+04	6.5E-04
130-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8623.5	1.3E+04	6.6E-01	1.1E+05	7.7E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	18874.0	5.0E+04	3.8E-01	1.1E+05	1.8E-01
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45.0	1.0E+05	4.5E-04	No Value	--
130-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	7527.3	5.0E+04	1.5E-01	3.6E+04	2.1E-01
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	379422.5	2.2E+05	**1.7E+00**	5.8E+06	6.5E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	10.1	1.0E+02	1.0E-01	1.9E+03	5.4E-03
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	No Value	--	1.7E+05	1.1E-05
130-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	300.0	2.0E+03	1.5E-01	1.4E+04	2.2E-02
130-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	14522.2	3.0E+04	4.8E-01	3.3E+04	4.5E-01
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3161.8	2.0E+05	1.6E-02	3.6E+08	8.9E-06
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18492.4	No Value	--	No Value	--
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43838.9	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
130-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	45472.8	5.0E+04	9.1E-01	6.8E+04	6.7E-01
132-D-1_Shallow	non-Rad	Aroclor HI	---	ug/kg	--	--	5.9E-03	--	1.6E-01
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	4.0E+04	1.6E-04	1.5E+03	4.3E-03
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230.0	4.0E+04	5.8E-03	1.5E+03	1.6E-01
132-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1758.3	1.0E+04	1.8E-01	1.9E+05	9.3E-03
132-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63595.4	3.3E+05	1.9E-01	1.3E+06	4.8E-02
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	1.8E+04	2.2E-04	3.9E+04	1.0E-04
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660.0	1.0E+05	6.6E-03	4.5E+04	1.5E-02
132-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1150.0	5.0E+02	**2.3E+00**	1.3E+05	8.7E-03
132-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	61.8	4.0E+03	1.6E-02	1.6E+03	3.8E-02
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	6.1E+04	2.0E-05	3.2E+01	3.8E-02
132-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	6.2E-05	9.2E+02	1.5E-04
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6667.2	4.0E+02	**1.7E+01**	3.8E+04	1.8E-01
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	1.8E+04	2.7E-04	4.5E+04	1.1E-04
132-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10535.5	1.3E+04	8.1E-01	1.1E+05	9.5E-02
132-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16707.4	5.0E+04	3.3E-01	1.1E+05	1.6E-01
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164.0	No Value	--	1.3E+06	1.3E-04
132-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5177.2	5.0E+04	1.0E-01	3.6E+04	1.5E-01
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	314188.4	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1000.0	1.0E+02	**1.0E+01**	1.9E+03	5.4E-01
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580.0	2.0E+03	2.9E-01	1.4E+04	4.2E-02
132-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9450.7	3.0E+04	3.2E-01	3.3E+04	2.9E-01
132-D-1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.0E-04	--	4.0E-02
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860.0	5.2E+02	**1.7E+00**	1.9E+03	4.5E-01
132-D-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1092.5	5.0E+03	2.2E-01	7.9E+05	1.4E-03
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.8	1.7E+06	5.0E-07	4.2E+02	2.0E-03
132-D-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	4.4E-06	6.4E+03	3.6E-05
132-D-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.4E-05	5.2E+03	4.3E-05
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69877.0	2.0E+03	**3.5E+01**	3.1E+04	**2.2E+00**
132-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48502.2	5.0E+04	9.7E-01	6.8E+04	7.2E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39.1	2.9E+04	1.4E-03	6.8E+05	5.8E-05
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor HI	---	ug/kg	--	--	1.6E-03	--	1.3E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35.0	4.0E+04	8.8E-04	3.3E+02	1.1E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10.0	4.0E+04	2.5E-04	1.5E+03	6.8E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18.0	4.0E+04	4.5E-04	1.5E+03	1.2E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3513.1	1.0E+04	3.5E-01	1.9E+05	1.9E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	65825.4	3.3E+05	2.0E-01	1.3E+06	5.0E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225.0	1.8E+04	1.3E-02	6.4E+04	3.5E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174.2	1.8E+04	9.7E-03	7.6E+04	2.3E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	160.8	1.8E+04	8.9E-03	3.9E+04	4.1E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59.4	1.8E+04	3.3E-03	3.9E+04	1.5E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	48.5	1.0E+04	4.9E-03	1.4E+04	3.5E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82.1	1.0E+05	8.2E-04	4.5E+04	1.8E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1225.0	5.0E+02	**2.5E+00**	1.3E+05	9.2E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	91.0	4.0E+03	2.3E-02	1.6E+03	5.6E-02
132-D-1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.6	2.2E+03	2.7E-04	9.2E+02	6.4E-04
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8495.7	4.0E+02	**2.1E+01**	3.8E+04	2.2E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193.1	1.8E+04	1.1E-02	4.5E+04	4.3E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	9153.8	1.3E+04	7.0E-01	1.1E+05	8.2E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	16081.5	5.0E+04	3.2E-01	1.1E+05	1.5E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54.0	1.8E+04	3.0E-03	4.4E+04	1.2E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44.5	1.0E+05	4.5E-04	No Value	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402.2	1.8E+04	2.2E-02	8.4E+05	4.8E-04
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68.0	2.9E+04	2.3E-03	1.8E+05	3.9E-04
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185.3	No Value	--	1.3E+06	1.5E-04
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	78.8	1.8E+04	4.4E-03	3.6E+04	2.2E-03
132-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	6740.1	5.0E+04	1.4E-01	3.6E+04	1.9E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	299872.8	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680.5	1.0E+02	**6.8E+00**	1.9E+03	3.7E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	240.0	2.0E+03	1.2E-01	1.4E+04	1.7E-02
132-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10761.0	3.0E+04	3.6E-01	3.3E+04	3.3E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	438.8	1.8E+04	2.4E-02	6.0E+05	7.3E-04
132-D-1_Staging Pile Area Footprint	Rad	Rads SOF	---	pCi/g	--	--	2.8E-04	--	8.7E-04
132-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	480.5	5.0E+03	9.6E-02	7.9E+05	6.1E-04
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.1	1.7E+06	3.9E-08	4.2E+02	1.6E-04
132-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.2	5.2E+04	4.1E-06	6.4E+03	3.4E-05
132-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.2	1.6E+04	1.2E-05	5.2E+03	3.7E-05
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	57749.0	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
132-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	48544.4	5.0E+04	9.7E-01	6.8E+04	7.2E-01
1607-D1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3395.5	1.0E+04	3.4E-01	1.9E+05	1.8E-02
1607-D1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64671.0	3.3E+05	2.0E-01	1.3E+06	4.9E-02
1607-D1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	228.5	1.0E+04	2.3E-02	1.4E+04	1.6E-02
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90.4	1.0E+05	9.0E-04	4.5E+04	2.0E-03
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1325.0	5.0E+02	**2.7E+00**	1.3E+05	1.0E-02
1607-D1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	78.7	4.0E+03	2.0E-02	1.6E+03	4.8E-02
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12828.1	4.0E+02	**3.2E+01**	3.8E+04	3.4E-01
1607-D1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5716.6	1.3E+04	4.4E-01	1.1E+05	5.1E-02
1607-D1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12881.0	5.0E+04	2.6E-01	1.1E+05	1.2E-01
1607-D1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4020.0	5.0E+04	8.0E-02	3.6E+04	1.1E-01
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	273291.0	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
1607-D1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.7	1.0E+02	6.7E-02	1.9E+03	3.6E-03
1607-D1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11264.3	3.0E+04	3.8E-01	3.3E+04	3.5E-01
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1366.7	No Value	--	No Value	--
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1650.0	No Value	--	No Value	--
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	38625.1	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
1607-D1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	35700.2	5.0E+04	7.1E-01	6.8E+04	5.3E-01
1607-D1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3837.3	1.0E+04	3.8E-01	1.9E+05	2.0E-02
1607-D1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67938.4	3.3E+05	2.1E-01	1.3E+06	5.1E-02
1607-D1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	245.3	1.0E+04	2.5E-02	1.4E+04	1.8E-02
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1248.0	5.0E+02	**2.5E+00**	1.3E+05	9.4E-03

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
1607-D1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	78.2	4.0E+03	2.0E-02	1.6E+03	4.8E-02
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	13336.3	4.0E+02	**3.3E+01**	3.8E+04	3.5E-01
1607-D1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5678.7	1.3E+04	4.4E-01	1.1E+05	5.1E-02
1607-D1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13123.0	5.0E+04	2.6E-01	1.1E+05	1.2E-01
1607-D1_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	990.0	No Value	--	2.3E+06	4.3E-04
1607-D1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4185.7	5.0E+04	8.4E-02	3.6E+04	1.2E-01
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	282970.5	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
1607-D1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	8.0	1.0E+02	8.0E-02	1.9E+03	4.3E-03
1607-D1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11792.1	3.0E+04	3.9E-01	3.3E+04	3.6E-01
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940.3	No Value	--	No Value	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1444.2	No Value	--	No Value	--
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	37046.3	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
1607-D1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	35076.8	5.0E+04	7.0E-01	6.8E+04	5.2E-01
1607-D1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3400.0	1.0E+04	3.4E-01	1.9E+05	1.8E-02
1607-D1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84000.0	3.3E+05	2.6E-01	1.3E+06	6.4E-02
1607-D1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240.0	1.0E+04	2.4E-02	1.4E+04	1.7E-02
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1400.0	5.0E+02	**2.8E+00**	1.3E+05	1.1E-02
1607-D1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	86.0	4.0E+03	2.2E-02	1.6E+03	5.3E-02
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12400.0	4.0E+02	**3.1E+01**	3.8E+04	3.3E-01
1607-D1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5400.0	1.3E+04	4.2E-01	1.1E+05	4.8E-02
1607-D1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12300.0	5.0E+04	2.5E-01	1.1E+05	1.2E-01
1607-D1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4000.0	5.0E+04	8.0E-02	3.6E+04	1.1E-01
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273000.0	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18.0	1.0E+02	1.8E-01	1.9E+03	9.6E-03
1607-D1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10900.0	3.0E+04	3.6E-01	3.3E+04	3.4E-01
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4500.0	No Value	--	No Value	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2600.0	No Value	--	No Value	--
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34500.0	2.0E+03	**1.7E+01**	3.1E+04	**1.1E+00**
1607-D1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	34200.0	5.0E+04	6.8E-01	6.8E+04	5.0E-01
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	4.0E+04	7.3E-05	1.5E+03	2.0E-03
1607-D1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3159.0	1.0E+04	3.2E-01	1.9E+05	1.7E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	61877.8	3.3E+05	1.9E-01	1.3E+06	4.7E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	223.9	1.0E+04	2.2E-02	1.4E+04	1.6E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660.0	1.0E+05	6.6E-03	4.5E+04	1.5E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	77.2	4.0E+03	1.9E-02	1.6E+03	4.7E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	11970.9	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
1607-D1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6118.7	1.3E+04	4.7E-01	1.1E+05	5.5E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13304.1	5.0E+04	2.7E-01	1.1E+05	1.2E-01
1607-D1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4178.6	5.0E+04	8.4E-02	3.6E+04	1.2E-01
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	268017.8	2.2E+05	**1.2E+00**	5.8E+06	4.6E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15.0	1.0E+02	1.5E-01	1.9E+03	8.0E-03
1607-D1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	260.0	2.0E+03	1.3E-01	1.4E+04	1.9E-02
1607-D1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	11512.2	3.0E+04	3.8E-01	3.3E+04	3.5E-01
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4900.0	No Value	--	No Value	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3225.6	No Value	--	No Value	--
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	39209.6	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
1607-D1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	34383.1	5.0E+04	6.9E-01	6.8E+04	5.1E-01
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.0	2.2E+04	2.3E-06	4.8E+03	1.0E-05
1607-D2-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1100.0	1.0E+04	1.1E-01	1.9E+05	5.8E-03
1607-D2-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62400.0	3.3E+05	1.9E-01	1.3E+06	4.7E-02
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5900.0	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
1607-D2-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1900.0	5.0E+04	3.8E-02	3.6E+04	5.3E-02
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.0	1.8E+04	1.6E-06	6.0E+03	4.6E-06
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.4	1.3E+04	3.0E-05	6.3E+03	6.0E-05
1607-D2-1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.6E-05	--	3.4E-04
1607-D2-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2268.3	5.0E+03	4.5E-01	7.9E+05	2.9E-03
1607-D2-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.7	5.2E+04	1.3E-05	6.4E+03	1.1E-04
1607-D2-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.0	2.7E+04	1.7E-06	4.4E+03	1.1E-05
1607-D2-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.8	1.6E+04	4.9E-05	5.2E+03	1.5E-04
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1210.8	5.0E+03	2.4E-01	6.0E+03	2.0E-01
1607-D2-2_Shallow	non-Rad	Aroclor HI	---	ug/kg	--	--	1.5E-02	--	4.1E-01
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447.0	4.0E+04	1.1E-02	1.5E+03	3.0E-01
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	156.9	4.0E+04	3.9E-03	1.5E+03	1.1E-01
1607-D2-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3481.3	1.0E+04	3.5E-01	1.9E+05	1.8E-02
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249126.3	3.3E+05	7.6E-01	1.3E+06	1.9E-01
1607-D2-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	343.0	1.0E+04	3.4E-02	1.4E+04	2.5E-02
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1842.4	5.0E+02	**3.7E+00**	1.3E+05	1.4E-02
1607-D2-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	377.8	4.0E+03	9.5E-02	1.6E+03	2.3E-01
1607-D2-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.4	2.2E+03	1.6E-04	9.2E+02	3.8E-04
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19771.2	4.0E+02	**4.9E+01**	3.8E+04	5.2E-01
1607-D2-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7840.3	1.3E+04	6.0E-01	1.1E+05	7.0E-02
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25777.0	5.0E+04	5.2E-01	1.1E+05	2.4E-01
1607-D2-2_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1700.0	No Value	--	2.3E+06	7.5E-04
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300.0	No Value	--	1.3E+06	2.4E-04
1607-D2-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8699.1	5.0E+04	1.7E-01	3.6E+04	2.4E-01
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344088.7	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	483.6	1.0E+02	**4.8E+00**	1.9E+03	2.6E-01
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643.5	2.0E+03	3.2E-01	1.4E+04	4.6E-02
1607-D2-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13308.8	3.0E+04	4.4E-01	3.3E+04	4.1E-01
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204415.4	No Value	--	3.4E+08	6.0E-04
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55960.5	No Value	--	No Value	--
1607-D2-2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.4E-04	--	7.0E-04
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11800.0	2.0E+03	**5.9E+00**	5.0E+04	2.4E-01
1607-D2-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2789.5	5.0E+03	5.6E-01	7.9E+05	3.6E-03
1607-D2-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.9	5.2E+04	1.7E-05	6.4E+03	1.3E-04
1607-D2-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.9	1.6E+04	6.0E-05	5.2E+03	1.8E-04
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68019.9	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91971.2	5.0E+04	**1.8E+00**	6.8E+04	**1.4E+00**
1607-D2-3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	55844.7	3.3E+05	1.7E-01	1.3E+06	4.2E-02
1607-D2-3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.2	2.2E+03	7.8E-05	9.2E+02	1.9E-04
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6597.1	4.0E+02	**1.7E+01**	3.8E+04	1.7E-01
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.1	6.1E+03	1.2E-05	8.1E+02	9.3E-05
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.6	1.5E+04	4.1E-05	1.7E+03	3.5E-04
1607-D2-3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5699.8	5.0E+04	1.1E-01	3.6E+04	1.6E-01
1607-D2-3_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.3E-04	--	6.2E-04
1607-D2-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88075.1	3.3E+05	2.7E-01	1.3E+06	6.7E-02
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25.0	1.0E+05	2.5E-04	4.5E+04	5.5E-04
1607-D2-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.1	2.2E+03	2.3E-05	9.2E+02	5.5E-05
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9575.6	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.2	1.5E+04	1.5E-05	1.7E+03	1.3E-04
1607-D2-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4939.1	5.0E+04	9.9E-02	3.6E+04	1.4E-01
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31.4	1.0E+02	3.1E-01	1.9E+03	1.7E-02
1607-D2-3_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.8E-05	--	1.8E-04
1607-D2-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60300.0	3.3E+05	1.8E-01	1.3E+06	4.6E-02
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6100.0	4.0E+02	**1.5E+01**	3.8E+04	1.6E-01
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.0	1.5E+04	2.5E-06	1.7E+03	2.1E-05
1607-D2-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4000.0	5.0E+04	8.0E-02	3.6E+04	1.1E-01
1607-D2-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	4.2E-05	--	1.9E-04
1607-D2-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1339.6	5.0E+03	2.7E-01	7.9E+05	1.7E-03
1607-D2-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.5	5.2E+04	1.0E-05	6.4E+03	8.3E-05
1607-D2-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.5	1.6E+04	2.9E-05	5.2E+03	8.7E-05
1607-D4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1500.0	1.0E+04	1.5E-01	1.9E+05	7.9E-03
1607-D4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41900.0	3.3E+05	1.3E-01	1.3E+06	3.2E-02
1607-D4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	900.0	1.0E+04	9.0E-02	1.4E+04	6.5E-02
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100.0	1.0E+05	1.0E-03	4.5E+04	2.2E-03
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1100.0	5.0E+02	**2.2E+00**	1.3E+05	8.3E-03
1607-D4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	350.0	4.0E+03	8.8E-02	1.6E+03	2.2E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3500.0	4.0E+02	**8.8E+00**	3.8E+04	9.2E-02
1607-D4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7400.0	1.3E+04	5.7E-01	1.1E+05	6.6E-02
1607-D4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14700.0	5.0E+04	2.9E-01	1.1E+05	1.4E-01
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60.0	No Value	--	No Value	--
1607-D4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2600.0	5.0E+04	5.2E-02	3.6E+04	7.3E-02
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	269000.0	2.2E+05	**1.2E+00**	5.8E+06	4.6E-02
1607-D4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280.0	2.0E+03	1.4E-01	1.4E+04	2.0E-02
1607-D4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8100.0	3.0E+04	2.7E-01	3.3E+04	2.5E-01
1607-D4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2460.0	No Value	--	3.4E+08	7.2E-06
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715.0	No Value	--	No Value	--
1607-D4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.6	5.0E+03	3.2E-04	7.9E+05	2.0E-06
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54500.0	2.0E+03	**2.7E+01**	3.1E+04	**1.8E+00**
1607-D4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38100.0	5.0E+04	7.6E-01	6.8E+04	5.6E-01
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370.0	No Value	--	No Value	--
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34.0	2.9E+04	1.2E-03	6.0E+03	5.7E-03
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29.0	No Value	--	4.0E+02	7.3E-02
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	No Value	--	8.8E+02	4.6E-03
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.8	1.0E+03	8.0E-04	5.0E+04	1.6E-05
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163.4	2.9E+04	5.6E-03	6.8E+05	2.4E-04
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12.0	4.0E+04	3.0E-04	1.5E+03	8.1E-03
1607-D5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3557.6	1.0E+04	3.6E-01	1.9E+05	1.9E-02
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775391.0	3.3E+05	**2.4E+00**	1.3E+06	5.9E-01
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1962.4	1.8E+04	1.1E-01	6.4E+04	3.1E-02
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405.2	1.8E+04	2.3E-02	7.6E+04	5.3E-03
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449.1	1.8E+04	2.5E-02	3.9E+04	1.1E-02
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	252.6	1.8E+04	1.4E-02	3.9E+04	6.4E-03
1607-D5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	492.5	1.0E+04	4.9E-02	1.4E+04	3.5E-02
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69503.5	5.0E+02	**1.4E+02**	1.3E+05	5.2E-01
1607-D5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	96.9	4.0E+03	2.4E-02	1.6E+03	5.9E-02
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48.0	No Value	--	No Value	--
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	1.0E+03	1.2E-03	5.0E+04	2.4E-05
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9673.4	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	778.9	1.8E+04	4.3E-02	4.5E+04	1.8E-02
1607-D5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10198.4	1.3E+04	7.8E-01	1.1E+05	9.2E-02
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31565.3	5.0E+04	6.3E-01	1.1E+05	3.0E-01
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99.0	1.8E+04	5.5E-03	4.4E+04	2.2E-03
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1925.2	1.8E+04	1.1E-01	8.4E+05	2.3E-03
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125.5	2.9E+04	4.3E-03	1.8E+05	7.2E-04
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	159.8	1.8E+04	8.9E-03	3.6E+04	4.5E-03
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106537.3	5.0E+04	**2.1E+00**	3.6E+04	**3.0E+00**
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330505.1	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	24.7	1.0E+02	2.5E-01	1.9E+03	1.3E-02
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1201.3	2.0E+03	6.0E-01	1.4E+04	8.6E-02
1607-D5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14373.3	3.0E+04	4.8E-01	3.3E+04	4.4E-01
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3855.4	No Value	--	No Value	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5527.8	No Value	--	No Value	--
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2647.2	1.8E+04	1.5E-01	6.0E+05	4.4E-03
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21904.2	2.0E+05	1.1E-01	3.6E+08	6.2E-05
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37993.6	No Value	--	No Value	--
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71779.1	2.0E+03	**3.6E+01**	3.1E+04	**2.3E+00**
1607-D5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44033.1	5.0E+04	8.8E-01	6.8E+04	6.5E-01
600-30_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3262.8	1.0E+04	3.3E-01	1.9E+05	1.7E-02
600-30_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	89130.2	3.3E+05	2.7E-01	1.3E+06	6.7E-02
600-30_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	292.0	1.0E+04	2.9E-02	1.4E+04	2.1E-02
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408.0	1.0E+05	4.1E-03	4.5E+04	9.0E-03
600-30_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2431.2	5.0E+02	**4.9E+00**	1.3E+05	1.8E-02
600-30_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	109.2	4.0E+03	2.7E-02	1.6E+03	6.7E-02
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11154.4	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
600-30_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7886.8	1.3E+04	6.1E-01	1.1E+05	7.1E-02
600-30_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15226.2	5.0E+04	3.1E-01	1.1E+05	1.4E-01
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230.0	No Value	--	1.3E+06	1.9E-04
600-30_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4710.7	5.0E+04	9.4E-02	3.6E+04	1.3E-01
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	360368.7	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
600-30_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	385.5	2.0E+03	1.9E-01	1.4E+04	2.8E-02
600-30_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11429.1	3.0E+04	3.8E-01	3.3E+04	3.5E-01
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6410.0	No Value	--	No Value	--
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	49219.0	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
600-30_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43816.5	5.0E+04	8.8E-01	6.8E+04	6.5E-01
600-30_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3242.5	1.0E+04	3.2E-01	1.9E+05	1.7E-02
600-30_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	85372.9	3.3E+05	2.6E-01	1.3E+06	6.5E-02
600-30_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	105.4	1.0E+04	1.1E-02	1.4E+04	7.6E-03
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101.4	1.0E+05	1.0E-03	4.5E+04	2.2E-03
600-30_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1525.0	5.0E+02	**3.1E+00**	1.3E+05	1.2E-02
600-30_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	103.5	4.0E+03	2.6E-02	1.6E+03	6.4E-02
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12014.4	4.0E+02	**3.0E+01**	3.8E+04	3.2E-01
600-30_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9144.6	1.3E+04	7.0E-01	1.1E+05	8.2E-02
600-30_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17329.7	5.0E+04	3.5E-01	1.1E+05	1.6E-01
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	293.8	No Value	--	1.3E+06	2.4E-04
600-30_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4021.4	5.0E+04	8.0E-02	3.6E+04	1.1E-01
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	351748.0	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
600-30_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	6.5	1.0E+02	6.5E-02	1.9E+03	3.5E-03
600-30_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	390.0	2.0E+03	2.0E-01	1.4E+04	2.8E-02
600-30_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	12530.4	3.0E+04	4.2E-01	3.3E+04	3.9E-01
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170.0	2.0E+03	8.5E-02	5.0E+04	3.4E-03
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820.0	2.0E+05	4.1E-03	3.6E+08	2.3E-06
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1274.6	No Value	--	No Value	--
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	57064.4	2.0E+03	**2.9E+01**	3.1E+04	**1.8E+00**
600-30_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	43113.7	5.0E+04	8.6E-01	6.8E+04	6.4E-01
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430.0	5.0E+03	8.6E-02	6.0E+03	7.2E-02
600-30_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2866.3	1.0E+04	2.9E-01	1.9E+05	1.5E-02
600-30_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	64907.1	3.3E+05	2.0E-01	1.3E+06	4.9E-02
600-30_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	66.0	1.0E+04	6.6E-03	1.4E+04	4.7E-03
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87.0	1.0E+05	8.7E-04	4.5E+04	1.9E-03
600-30_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1700.0	5.0E+02	**3.4E+00**	1.3E+05	1.3E-02
600-30_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	66.6	4.0E+03	1.7E-02	1.6E+03	4.1E-02
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7707.8	4.0E+02	**1.9E+01**	3.8E+04	2.0E-01
600-30_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	10659.6	1.3E+04	8.2E-01	1.1E+05	9.6E-02
600-30_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18098.8	5.0E+04	3.6E-01	1.1E+05	1.7E-01
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210.0	No Value	--	1.3E+06	1.7E-04
600-30_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	7862.0	5.0E+04	1.6E-01	3.6E+04	2.2E-01
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	346687.9	2.2E+05	**1.6E+00**	5.8E+06	6.0E-02
600-30_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	6.4	1.0E+02	6.4E-02	1.9E+03	3.4E-03
600-30_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	243.2	2.0E+03	1.2E-01	1.4E+04	1.7E-02
600-30_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12270.4	3.0E+04	4.1E-01	3.3E+04	3.8E-01
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1643.0	2.0E+05	8.2E-03	3.6E+08	4.6E-06
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8600.0	No Value	--	No Value	--
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	67222.2	2.0E+03	**3.4E+01**	3.1E+04	**2.2E+00**
600-30_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43856.1	5.0E+04	8.8E-01	6.8E+04	6.5E-01

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	No Value	--	1.7E+02	1.0E-02
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349.0	5.0E+03	7.0E-02	6.0E+03	5.8E-02
600-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3590.0	1.0E+04	3.6E-01	1.9E+05	1.9E-02
600-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99100.0	3.3E+05	3.0E-01	1.3E+06	7.5E-02
600-30_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	319.0	1.0E+04	3.2E-02	1.4E+04	2.3E-02
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2460.0	5.0E+02	**4.9E+00**	1.3E+05	1.9E-02
600-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	134.0	4.0E+03	3.4E-02	1.6E+03	8.2E-02
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11800.0	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
600-30_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10300.0	1.3E+04	7.9E-01	1.1E+05	9.2E-02
600-30_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18300.0	5.0E+04	3.7E-01	1.1E+05	1.7E-01
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270.0	No Value	--	1.3E+06	2.2E-04
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10800.0	5.0E+04	2.2E-01	3.6E+04	3.0E-01
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	382000.0	2.2E+05	**1.7E+00**	5.8E+06	6.6E-02
600-30_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	396.0	2.0E+03	2.0E-01	1.4E+04	2.8E-02
600-30_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12700.0	3.0E+04	4.2E-01	3.3E+04	3.9E-01
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52500.0	No Value	--	No Value	--
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62200.0	2.0E+03	**3.1E+01**	3.1E+04	**2.0E+00**
600-30_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46600.0	5.0E+04	9.3E-01	6.8E+04	6.9E-01
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	17.8	2.0E+04	8.9E-04	1.1E+06	1.6E-05
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	No Value	--	1.7E+02	8.9E-03
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3150.0	5.0E+03	6.3E-01	6.0E+03	5.3E-01
628-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2520.9	1.0E+04	2.5E-01	1.9E+05	1.3E-02
628-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57199.3	3.3E+05	1.7E-01	1.3E+06	4.3E-02
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	1.8E+04	2.2E-04	6.4E+04	6.2E-05
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	1.8E+04	2.1E-04	7.6E+04	4.8E-05
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	1.8E+04	1.8E-04	3.9E+04	8.3E-05
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	1.8E+04	1.2E-04	3.9E+04	5.4E-05
628-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	192.8	1.0E+04	1.9E-02	1.4E+04	1.4E-02
628-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1771.1	5.0E+02	**3.5E+00**	1.3E+05	1.3E-02
628-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136.3	4.0E+03	3.4E-02	1.6E+03	8.4E-02
628-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11406.1	4.0E+02	**2.9E+01**	3.8E+04	3.0E-01
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	1.8E+04	4.7E-04	4.5E+04	1.9E-04
628-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6637.5	1.3E+04	5.1E-01	1.1E+05	6.0E-02
628-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15747.4	5.0E+04	3.2E-01	1.1E+05	1.5E-01
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31.0	1.8E+04	1.7E-03	8.4E+05	3.7E-05
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	1.8E+04	3.1E-04	3.6E+04	1.6E-04
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15972.3	5.0E+04	3.2E-01	3.6E+04	4.5E-01
628-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284235.2	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164.9	1.0E+02	**1.7E+00**	1.9E+03	8.8E-02
628-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	372.2	2.0E+03	1.9E-01	1.4E+04	2.7E-02
628-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9673.7	3.0E+04	3.2E-01	3.3E+04	3.0E-01
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	1.8E+04	2.0E-04	6.0E+05	6.0E-06
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9961.3	No Value	--	No Value	--
628-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53113.1	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
628-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43720.6	5.0E+04	8.7E-01	6.8E+04	6.5E-01
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	No Value	--	4.0E+02	6.0E-03
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	2.0E+04	6.8E-05	1.1E+06	1.2E-06
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	2.9E+04	3.0E-04	6.8E+05	1.3E-05
628-3_Staging Pile Area_2	non-Rad	Aroclor HI	---	ug/kg	--	--	5.6E-04	--	1.5E-02
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13.3	4.0E+04	3.3E-04	1.5E+03	9.1E-03
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	4.0E+04	2.3E-04	1.5E+03	6.2E-03
628-3_Staging Pile Area_2	non-Rad	Arsenic	7440-38-2	ug/kg	2870.4	1.0E+04	2.9E-01	1.9E+05	1.5E-02
628-3_Staging Pile Area_2	non-Rad	Barium	7440-39-3	ug/kg	78503.1	3.3E+05	2.4E-01	1.3E+06	5.9E-02
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	1.8E+04	3.8E-04	6.4E+04	1.1E-04
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	1.8E+04	3.6E-04	7.6E+04	8.5E-05
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	1.8E+04	5.2E-04	3.9E+04	2.4E-04
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	1.8E+04	2.2E-04	3.9E+04	1.0E-04
628-3_Staging Pile Area_2	non-Rad	Beryllium	7440-41-7	ug/kg	254.7	1.0E+04	2.6E-02	1.4E+04	1.8E-02
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	ug/kg	2111.8	5.0E+02	**4.2E+00**	1.3E+05	1.6E-02
628-3_Staging Pile Area_2	non-Rad	Cadmium	7440-43-9	ug/kg	162.7	4.0E+03	4.1E-02	1.6E+03	1.0E-01
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	ug/kg	12445.1	4.0E+02	**3.1E+01**	3.8E+04	3.3E-01
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	1.8E+04	3.7E-04	4.5E+04	1.5E-04
628-3_Staging Pile Area_2	non-Rad	Cobalt	7440-48-4	ug/kg	7062.4	1.3E+04	5.4E-01	1.1E+05	6.3E-02
628-3_Staging Pile Area_2	non-Rad	Copper	7440-50-8	ug/kg	15225.8	5.0E+04	3.1E-01	1.1E+05	1.4E-01
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	1.8E+04	1.7E-04	4.4E+04	6.9E-05
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35.0	1.8E+04	1.9E-03	8.4E+05	4.2E-05
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15.2	1.8E+04	8.4E-04	3.6E+04	4.3E-04
628-3_Staging Pile Area_2	non-Rad	Lead	7439-92-1	ug/kg	7649.7	5.0E+04	1.5E-01	3.6E+04	2.2E-01
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	ug/kg	323863.2	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113.3	1.0E+02	**1.1E+00**	1.9E+03	6.1E-02
628-3_Staging Pile Area_2	non-Rad	Molybdenum	7439-98-7	ug/kg	420.7	2.0E+03	2.1E-01	1.4E+04	3.0E-02
628-3_Staging Pile Area_2	non-Rad	Nickel	7440-02-0	ug/kg	10260.5	3.0E+04	3.4E-01	3.3E+04	3.2E-01
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	10.6	1.8E+04	5.9E-04	6.0E+05	1.8E-05
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1200.0	2.0E+05	6.0E-03	3.6E+08	3.4E-06
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2900.0	No Value	--	No Value	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10486.3	No Value	--	No Value	--
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	ug/kg	55453.8	2.0E+03	**2.8E+01**	3.1E+04	**1.8E+00**
628-3_Staging Pile Area_2	non-Rad	Zinc	7440-66-6	ug/kg	48319.4	5.0E+04	9.7E-01	6.8E+04	7.1E-01
628-3_Staging Pile Area_3	non-Rad	Aroclor HI	---	ug/kg	--	--	4.4E-04	--	1.2E-02
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	4.0E+04	2.1E-04	1.5E+03	5.7E-03
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	4.0E+04	2.4E-04	1.5E+03	6.4E-03
628-3_Staging Pile Area_3	non-Rad	Arsenic	7440-38-2	ug/kg	2494.1	1.0E+04	2.5E-01	1.9E+05	1.3E-02
628-3_Staging Pile Area_3	non-Rad	Barium	7440-39-3	ug/kg	74013.7	3.3E+05	2.2E-01	1.3E+06	5.6E-02
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	1.8E+04	9.9E-05	6.4E+04	2.8E-05
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	1.8E+04	8.9E-05	7.6E+04	2.1E-05
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	1.8E+04	1.3E-04	3.9E+04	6.2E-05
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	1.8E+04	7.0E-05	3.9E+04	3.2E-05
628-3_Staging Pile Area_3	non-Rad	Beryllium	7440-41-7	ug/kg	233.8	1.0E+04	2.3E-02	1.4E+04	1.7E-02
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	ug/kg	2240.7	5.0E+02	**4.5E+00**	1.3E+05	1.7E-02
628-3_Staging Pile Area_3	non-Rad	Cadmium	7440-43-9	ug/kg	166.0	4.0E+03	4.2E-02	1.6E+03	1.0E-01
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41154.5	4.0E+02	**1.0E+02**	3.8E+04	**1.1E+00**
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	1.8E+04	1.1E-04	4.5E+04	4.3E-05
628-3_Staging Pile Area_3	non-Rad	Cobalt	7440-48-4	ug/kg	7462.9	1.3E+04	5.7E-01	1.1E+05	6.7E-02
628-3_Staging Pile Area_3	non-Rad	Copper	7440-50-8	ug/kg	18416.6	5.0E+04	3.7E-01	1.1E+05	1.7E-01
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85.2	1.8E+04	4.7E-03	8.4E+05	1.0E-04
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13526.3	5.0E+04	2.7E-01	3.6E+04	3.8E-01
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	ug/kg	328755.4	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	29.7	1.0E+02	3.0E-01	1.9E+03	1.6E-02
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	473.6	2.0E+03	2.4E-01	1.4E+04	3.4E-02
628-3_Staging Pile Area_3	non-Rad	Nickel	7440-02-0	ug/kg	9872.3	3.0E+04	3.3E-01	3.3E+04	3.0E-01
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	1.8E+04	1.6E-04	6.0E+05	4.9E-06
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13203.2	No Value	--	No Value	--
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	ug/kg	58456.2	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	ug/kg	54972.4	5.0E+04	**1.1E+00**	6.8E+04	8.1E-01
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	No Value	--	4.0E+02	3.8E-03
628-3_Staging Pile Area_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2800.0	1.0E+04	2.8E-01	1.9E+05	1.5E-02
628-3_Staging Pile Area_Focused	non-Rad	Barium	7440-39-3	ug/kg	109000.0	3.3E+05	3.3E-01	1.3E+06	8.2E-02
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	1.8E+04	7.9E-05	6.4E+04	2.2E-05
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	1.8E+04	1.0E-04	7.6E+04	2.4E-05

Table 4. Comparison of 100-D OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	1.8E+04	2.4E-04	3.9E+04	1.1E-04
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	1.8E+04	7.3E-05	3.9E+04	3.4E-05
628-3_Staging Pile Area_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298.0	1.0E+04	3.0E-02	1.4E+04	2.1E-02
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	ug/kg	3500.0	5.0E+02	**7.0E+00**	1.3E+05	2.6E-02
628-3_Staging Pile Area_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	189.0	4.0E+03	4.7E-02	1.6E+03	1.2E-01
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12000.0	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	1.8E+04	1.9E-04	4.5E+04	7.6E-05
628-3_Staging Pile Area_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7420.0	1.3E+04	5.7E-01	1.1E+05	6.7E-02
628-3_Staging Pile Area_Focused	non-Rad	Copper	7440-50-8	ug/kg	19700.0	5.0E+04	3.9E-01	1.1E+05	1.8E-01
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26.1	1.8E+04	1.5E-03	8.4E+05	3.1E-05
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	1.8E+04	1.6E-04	3.6E+04	8.2E-05
628-3_Staging Pile Area_Focused	non-Rad	Lead	7439-92-1	ug/kg	7500.0	5.0E+04	1.5E-01	3.6E+04	2.1E-01
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	ug/kg	363000.0	2.2E+05	**1.7E+00**	5.8E+06	6.3E-02
628-3_Staging Pile Area_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	353.0	2.0E+03	1.8E-01	1.4E+04	2.5E-02
628-3_Staging Pile Area_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10600.0	3.0E+04	3.5E-01	3.3E+04	3.3E-01
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	1.8E+04	2.5E-04	6.0E+05	7.5E-06
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20300.0	No Value	--	No Value	--
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52400.0	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
628-3_Staging Pile Area_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49400.0	5.0E+04	9.9E-01	6.8E+04	7.3E-01

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-H-17_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,395	1.0E+04	3.4E-01	1.9E+05	1.8E-02
100-H-17_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.2E-04	9.2E+02	2.8E-04
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,015	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,471	No Value	--	1.3E+06	3.8E-04
100-H-17_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,489	5.0E+04	1.3E-01	3.6E+04	1.8E-01
100-H-17_Shallow	Rad	Rads SOF	---	pCi/g	--	--	3.1E-04	--	6.0E-03
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,001	3.6E+03	1.4E-04	9.1E+01	5.5E-03
100-H-17_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,853	5.0E+03	3.7E-01	7.9E+05	2.4E-03
100-H-17_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.2E-05	6.4E+03	9.4E-05
100-H-17_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.0E-05	5.2E+03	1.2E-04
100-H-21_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	1.0E+04	**1.2E+00**	1.9E+05	6.0E-02
100-H-21_Overburder	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	5.4E-05	9.2E+02	1.3E-04
100-H-21_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	14,234	4.0E+02	**3.6E+01**	3.8E+04	3.7E-01
100-H-21_Overburder	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	1.9E-05	1.7E+03	1.6E-04
100-H-21_Overburder	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,813	No Value	--	1.3E+06	6.5E-04
100-H-21_Overburder	non-Rad	Lead	7439-92-1	ug/kg	36,426	5.0E+04	7.3E-01	3.6E+04	**1.0E+00**
100-H-21_Overburder	non-Rad	Mercury	7439-97-6	ug/kg	0,040	1.0E+02	4.0E-01	1.9E+03	2.1E-02
100-H-21_Overburder	Rad	Plutonium-239/240	PU-239/240	pCi/g	0,000	1.3E+04	3.5E-06	6.3E+03	7.2E-06
100-H-21_Overburder	Rad	Rads SOF	---	pCi/g	--	--	1.2E-04	--	4.7E-04
100-H-21_Overburder	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,342	5.0E+03	2.7E-01	7.9E+05	1.7E-03
100-H-21_Overburder	Rad	Uranium-233/234	U-233/234	pCi/g	0,000	5.2E+04	9.0E-06	6.4E+03	7.3E-05
100-H-21_Overburder	Rad	Uranium-235	15117-96-1	pCi/g	0,000	2.7E+04	1.9E-06	4.4E+03	1.2E-05
100-H-21_Overburder	Rad	Uranium-238	U-238	pCi/g	0,000	1.6E+04	2.9E-05	5.2E+03	8.7E-05
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	1.0E+04	**1.3E+00**	1.9E+05	7.0E-02
100-H-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.1E-04	9.2E+02	2.6E-04
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,826	4.0E+02	**3.7E+01**	3.8E+04	3.9E-01
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	1.9E-05	1.7E+03	1.6E-04
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,487	No Value	--	1.3E+06	3.9E-04
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	5.0E+04	8.0E-01	3.6E+04	**1.1E+00**
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0,000	1.8E+04	4.1E-06	6.0E+03	1.2E-05
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0,000	1.3E+04	5.9E-06	6.3E+03	1.2E-05
100-H-21_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.1E-04	--	7.4E-04
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0,001	2.2E+04	2.9E-05	5.4E+03	1.2E-04
100-H-21_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,473	5.0E+03	3.0E-01	7.9E+05	1.9E-03
100-H-21_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.1E-05	6.4E+03	8.6E-05
100-H-21_Shallow	Rad	Uranium-238	U-238	pCi/g	0,000	1.6E+04	3.2E-05	5.2E+03	9.6E-05
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,069	4.0E+04	1.7E-03	1.5E+03	4.7E-02
100-H-24_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,164	1.0E+04	4.2E-01	1.9E+05	2.2E-02
100-H-28:1_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0,022	2.0E+04	1.1E-03	1.1E+06	2.0E-05
100-H-28:1_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	1.0E+04	3.3E-01	1.9E+05	1.7E-02
100-H-28:1_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	540,000	3.3E+05	**1.6E+00**	1.3E+06	4.1E-01
100-H-28:1_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,004	1.8E+04	2.1E-04	6.4E+04	5.8E-05
100-H-28:1_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,004	1.8E+04	2.3E-04	7.6E+04	5.5E-05
100-H-28:1_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,058	1.8E+04	3.2E-03	3.9E+04	1.5E-03
100-H-28:1_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,002	1.8E+04	1.3E-04	3.9E+04	6.1E-05
100-H-28:1_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,530	1.0E+04	5.3E-02	1.4E+04	3.8E-02
100-H-28:1_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	66,400	5.0E+02	**1.3E+02**	1.3E+05	5.0E-01
100-H-28:1_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	15,000	4.0E+02	**3.8E+01**	3.8E+04	3.9E-01
100-H-28:1_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,004	1.8E+04	2.4E-04	4.5E+04	9.7E-05
100-H-28:1_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	1.3E+04	6.2E-01	1.1E+05	7.2E-02
100-H-28:1_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	22,700	5.0E+04	4.5E-01	1.1E+05	2.1E-01
100-H-28:1_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,002	1.8E+04	1.2E-04	4.4E+04	5.0E-05
100-H-28:1_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,007	1.8E+04	4.0E-04	8.4E+05	8.6E-06
100-H-28:1_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0,007	2.9E+04	2.4E-04	1.8E+05	3.9E-05
100-H-28:1_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,034	1.8E+04	1.9E-03	3.6E+04	9.5E-04
100-H-28:1_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	5,700	5.0E+04	1.1E-01	3.6E+04	1.6E-01
100-H-28:1_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	340,000	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-H-28:1_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,030	1.0E+02	3.0E-01	1.9E+03	1.6E-02
100-H-28:1_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	2.0E+03	5.5E-01	1.4E+04	7.9E-02
100-H-28:1_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0,023	2.9E+04	7.9E-04	1.0E+05	2.3E-04
100-H-28:1_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	17,200	3.0E+04	5.7E-01	3.3E+04	5.3E-01
100-H-28:1_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,008	1.8E+04	4.6E-04	6.0E+05	1.4E-05
100-H-28:1_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
100-H-28:1_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	45,200	5.0E+04	9.0E-01	6.8E+04	6.7E-01
100-H-28:6_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0,200	5.0E+03	4.0E-02	6.0E+03	3.3E-02
100-H-28:6_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	1.0E+04	7.3E-01	1.9E+05	3.9E-02
100-H-28:6_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	75,800	3.3E+05	2.3E-01	1.3E+06	5.7E-02
100-H-28:6_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,250	1.0E+04	2.5E-02	1.4E+04	1.8E-02
100-H-28:6_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	2,300	5.0E+02	**4.6E+00**	1.3E+05	1.7E-02
100-H-28:6_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,200	4.0E+03	5.0E-02	1.6E+03	1.2E-01
100-H-28:6_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	16,800	4.0E+02	**4.2E+01**	3.8E+04	4.4E-01
100-H-28:6_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	1.3E+04	5.5E-01	1.1E+05	6.4E-02
100-H-28:6_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	15,000	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-H-28:6_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	31,400	5.0E+04	6.3E-01	3.6E+04	8.8E-01
100-H-28:6_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	287,000	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-H-28:6_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,010	1.0E+02	1.0E-01	1.9E+03	5.4E-03
100-H-28:6_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,430	2.0E+03	2.2E-01	1.4E+04	3.1E-02
100-H-28:6_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	15,400	3.0E+04	5.1E-01	3.3E+04	4.7E-01
100-H-28:6_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	45,200	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
100-H-28:6_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	49,300	5.0E+04	9.9E-01	6.8E+04	7.3E-01
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,008	4.0E+04	2.0E-04	1.5E+03	5.4E-03
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,013	4.0E+04	3.4E-04	1.5E+03	9.1E-03
100-H-3_Shallow	non-Rad	Aroclors HI	---	ug/kg	--	--	5.3E-04	--	1.5E-02
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	1.0E+04	**1.5E+00**	1.9E+05	7.8E-02
100-H-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	87,047	3.3E+05	2.6E-01	1.3E+06	6.6E-02
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,070	1.8E+04	3.9E-03	6.4E+04	1.1E-03
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,071	1.8E+04	3.9E-03	7.6E+04	9.3E-04
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,061	1.8E+04	3.4E-03	3.9E+04	1.6E-03
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,063	1.8E+04	3.5E-03	3.9E+04	1.6E-03
100-H-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,342	1.0E+04	3.4E-02	1.4E+04	2.5E-02
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	0,003	No Value	--	4.1E+03	6.2E-04
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	5.0E+02	**9.4E+00**	1.3E+05	3.5E-02
100-H-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,242	4.0E+03	6.0E-02	1.6E+03	1.5E-01
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,525	4.0E+02	**4.4E+01**	3.8E+04	4.6E-01
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,085	1.8E+04	4.7E-03	4.5E+04	1.9E-03
100-H-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,489	1.3E+04	5.0E-01	1.1E+05	5.8E-02
100-H-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,046	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0,005	No Value	--	2.1E+01	2.4E-01
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0,138	1.8E+04	7.7E-03	8.4E+05	1.6E-04
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	5.0E+04	9.5E-01	3.6E+04	**1.3E+00**
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,799	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,257	1.0E+02	**2.6E+00**	1.9E+03	1.4E-01
100-H-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,453	2.0E+03	2.3E-01	1.4E+04	3.3E-02
100-H-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,736	3.0E+04	4.9E-01	3.3E+04	4.5E-01
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0,143	1.8E+04	7.9E-03	6.0E+05	2.4E-04
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000	2.0E+05	8.2E-01	3.6E+08	4.6E-04
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682	No Value	--	No Value	--
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,985	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
100-H-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,349	5.0E+04	9.7E-01	6.8E+04	7.1E-01
100-H-35_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	5,000	1.0E+04	5.0E-01	1.9E+05	2.6E-02
100-H-35_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	99,000	3.3E+05	3.0E-01	1.3E+06	7.5E-02
100-H-35_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,371	1.0E+04	3.7E-02	1.4E+04	2.7E-02
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	2,630	5.0E+02	**5.3E+00**	1.3E+05	2.0E-02
100-H-35_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,172	4.0E+03	4.3E-02	1.6E+03	1.1E-01
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	4.0E+02	**5.2E+01**	3.8E+04	5.4E-01
100-H-35_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	1.3E+04	5.1E-01	1.1E+05	5.9E-02
100-H-35_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,100	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-H-35_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	5,880	5.0E+04	1.2E-01	3.6E+04	1.7E-01
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	322,000	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-H-35_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	0,328	2.0E+03	1.6E-01	1.4E+04	2.4E-02
100-H-35_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	17,100	3.0E+04	5.7E-01	3.3E+04	5.3E-01
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-H-35_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	47,400	5.0E+04	9.5E-01	6.8E+04	7.0E-01
100-H-35_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,720	1.0E+04	4.7E-01	1.9E+05	2.5E-02
100-H-35_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	86,300	3.3E+05	2.6E-01	1.3E+06	6.5E-02
100-H-35_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,330	1.0E+04	3.3E-02	1.4E+04	2.4E-02
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	1,930	5.0E+02	**3.9E+00**	1.3E+05	1.5E-02
100-H-35_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,114	4.0E+03	2.9E-02	1.6E+03	7.0E-02
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	4.0E+02	**5.2E+01**	3.8E+04	5.5E-01
100-H-35_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	1.3E+04	5.5E-01	1.1E+05	6.4E-02
100-H-35_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	5.0E+04	2.1E-01	3.6E+04	3.0E-01
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	309,000	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	0,102	1.0E+02	**1.0E+00**	1.9E+03	5.5E-02
100-H-35_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,428	2.0E+03	2.1E-01	1.4E+04	3.1E-02
100-H-35_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	18,600	3.0E+04	6.2E-01	3.3E+04	5.7E-01
100-H-35_Shallow_Focused_2	Rad	Rads SOF	---	pCi/g	--	--	5.6E-05	--	2.5E-04
100-H-35_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	1,280	5.0E+03	2.6E-01	7.9E+05	1.6E-03
100-H-35_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.5E-05	6.4E+03	1.2E-04
100-H-35_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0,000	2.7E+04	2.1E-06	4.4E+03	1.3E-05
100-H-35_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.9E-05	5.2E+03	1.2E-04
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,600	2.0E+03	**2.1E+01**	3.1E+04	**1.3E+00**
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	48,000	5.0E+04	9.6E-01	6.8E+04	7.1E-01
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	1.0E+04	**1.9E+00**	1.9E+05	9.8E-02
100-H-35_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	62,600	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-H-35_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	0,200	1.0E+04	2.0E-02	1.4E+04	1.4E-02
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	1,100	5.0E+02	**2.2E+00**	1.3E+05	8.3E-03
100-H-35_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	0,154	4.0E+03	3.9E-02	1.6E+03	9.5E-02
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	14,800	4.0E+02	**3.7E+01**	3.8E+04	3.9E-01
100-H-35_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	1.3E+04	4.2E-01	1.1E+05	4.8E-02
100-H-35_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	13,400	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	5.0E+04	5.0E-01	3.6E+04	7.1E-01
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	253,000	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
100-H-35_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	0,323	2.0E+03	1.6E-01	1.4E+04	2.3E-02
100-H-35_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	13,700	3.0E+04	4.6E-01	3.3E+04	4.2E-01
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	5.0E+04	**1.9E+00**	6.8E+04	**1.4E+00**
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	1.0E+04	**1.3E+00**	1.9E+05	6.9E-02
100-H-37_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	71,000	3.3E+05	2.2E-01	1.3E+06	5.4E-02
100-H-37_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	0,970	1.0E+04	9.7E-02	1.4E+04	7.0E-02
100-H-37_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	0,082	4.0E+03	2.1E-02	1.6E+03	5.0E-02
100-H-37_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	7.9E-06	9.2E+02	1.9E-05
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
100-H-37_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	1.3E+04	5.5E-01	1.1E+05	6.4E-02
100-H-37_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,000	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	5.0E+04	**1.1E+00**	3.6E+04	**1.5E+00**
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	0,019	1.0E+02	1.9E-01	1.9E+03	1.0E-02
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	2.0E+03	6.0E-01	1.4E+04	8.6E-02
100-H-37_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	3.0E+04	4.0E-01	3.3E+04	3.7E-01
100-H-37_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	8.6E-05	--	2.7E-04
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	5.0E+03	6.9E-01	7.9E+05	4.4E-03
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0,000	2.7E+04	5.1E-06	4.4E+03	3.2E-05
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	7.3E-05	5.2E+03	2.2E-04
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
100-H-37_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,000	5.0E+04	9.2E-01	6.8E+04	6.8E-01
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,003	No Value	--	4.0E+02	7.4E-03
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,002	No Value	--	8.8E+02	1.8E-03
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	0,011	2.0E+04	5.5E-04	1.1E+06	1.0E-05
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0,003	1.0E+03	3.0E-03	5.0E+04	6.0E-05
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,028	4.0E+04	6.9E-04	1.5E+03	1.9E-02
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,013	4.0E+04	3.2E-04	1.5E+03	8.7E-03
100-H-4_Shallow	non-Rad	Aroclors HI	---	ug/kg	--	--	1.0E-03	--	2.8E-02
100-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,985	1.0E+04	7.0E-01	1.9E+05	3.7E-02
100-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,371	3.3E+05	1.7E-01	1.3E+06	4.3E-02
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,004	1.8E+04	2.3E-04	6.4E+04	6.5E-05
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,004	1.8E+04	2.4E-04	7.6E+04	5.7E-05
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,004	1.8E+04	2.5E-04	3.9E+04	1.1E-04
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,002	1.8E+04	1.3E-04	3.9E+04	5.9E-05
100-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,251	1.0E+04	2.5E-02	1.4E+04	1.8E-02
100-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,026	5.0E+02	**6.1E+00**	1.3E+05	2.3E-02
100-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,125	4.0E+03	3.1E-02	1.6E+03	7.7E-02
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0,001	1.0E+03	1.4E-03	5.0E+04	2.8E-05
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,057	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,005	1.8E+04	2.7E-04	4.5E+04	1.1E-04
100-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,639	1.3E+04	4.3E-01	1.1E+05	5.1E-02
100-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,398	5.0E+04	3.1E-01	1.1E+05	1.4E-01
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0,009	1.8E+04	4.9E-04	8.4E+05	1.0E-05
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	0,003	2.9E+04	1.0E-04	1.8E+05	1.7E-05
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,031	1.8E+04	1.7E-03	3.6E+04	8.7E-04
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	5.0E+04	5.5E-01	3.6E+04	7.7E-01
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	263,324	2.2E+05	**1.2E+00**	5.8E+06	4.5E-02
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,408	1.0E+02	**4.1E+00**	1.9E+03	2.2E-01
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	0,006	No Value	--	1.7E+05	3.5E-05
100-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,466	2.0E+03	2.3E-01	1.4E+04	3.3E-02
100-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,166	3.0E+04	3.4E-01	3.3E+04	3.1E-01
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	0,008	No Value	--	No Value	--
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0,007	1.8E+04	3.8E-04	6.0E+05	1.1E-05
100-H-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.8E-05	--	3.5E-04
100-H-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	0,391	5.2E+02	7.5E-01	1.9E+03	2.1E-01
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,792	No Value	--	No Value	--
100-H-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,620	5.0E+03	5.2E-01	7.9E+05	3.3E-03
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	2.2E-05	6.4E+03	1.8E-04
100-H-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	5.6E-05	5.2E+03	1.7E-04
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
100-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,149	5.0E+04	7.2E-01	6.8E+04	5.3E-01
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,002	No Value	--	8.8E+02	2.4E-03
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	0,051	2.0E+04	2.6E-03	1.1E+06	4.7E-05
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	0,420	5.0E+03	8.4E-02	6.0E+03	7.0E-02
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,014	4.0E+04	3.5E-04	1.5E+03	9.4E-03
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,073	4.0E+04	1.8E-03	1.5E+03	5.0E-02
100-H-4_Shallow_Focused	non-Rad	Aroclors HI	---	ug/kg	--	--	2.2E-03	--	5.9E-02
100-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,800	1.0E+04	8.8E-01	1.9E+05	4.6E-02
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	3.3E+05	4.9E-01	1.3E+06	1.2E-01
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,075	1.8E+04	4.1E-03	6.4E+04	1.2E-03
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,053	1.8E+04	2.9E-03	7.6E+04	6.9E-04
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,044	1.8E+04	2.5E-03	3.9E+04	1.1E-03
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,033	1.8E+04	1.8E-03	3.9E+04	8.4E-04
100-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	0,310	1.0E+04	3.1E-02	1.4E+04	2.2E-02
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	0,002	No Value	--	4.1E+03	5.9E-04
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,027	1.0E+05	2.7E-04	4.5E+04	5.9E-04
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	5.0E+02	**3.9E+01**	1.3E+05	1.5E-01
100-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	0,260	4.0E+03	6.5E-02	1.6E+03	1.6E-01
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,500	4.0E+02	**4.4E+01**	3.8E+04	4.6E-01
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	0,041	1.8E+04	2.3E-03	4.5E+04	9.2E-04
100-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	1.3E+04	6.1E-01	1.1E+05	7.1E-02
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	5.0E+04	5.1E-01	1.1E+05	2.4E-01
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,007	1.8E+04	3.7E-04	4.4E+04	1.5E-04
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	0,017	No Value	--	No Value	--
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	0,049	1.8E+04	2.7E-03	8.4E+05	5.8E-05
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	0,004	2.9E+04	1.4E-04	1.8E+05	2.4E-05
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,020	1.8E+04	1.1E-03	3.6E+04	5.6E-04
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	5.0E+04	5.5E-01	3.6E+04	7.7E-01
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	364,000	2.2E+05	**1.7E+00**	5.8E+06	6.3E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-H-4_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,020	1.0E+02	2.0E-01	1.9E+03	1.1E-02
100-H-4_Shallow_Focusec	non-Rad	Methoxychlor	72-43-5	ug/kg	0,002	No Value	--	2.2E+04	8.7E-05
100-H-4_Shallow_Focusec	non-Rad	Methylene chloride	75-09-2	ug/kg	0,014	No Value	--	1.7E+05	8.5E-05
100-H-4_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,730	2.0E+03	3.7E-01	1.4E+04	5.2E-02
100-H-4_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	15,200	3.0E+04	5.1E-01	3.3E+04	4.7E-01
100-H-4_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,046	1.8E+04	2.6E-03	6.0E+05	7.7E-05
100-H-4_Shallow_Focusec	Rad	Rads SOF	---	pCi/g	--	--	1.1E-04	--	4.9E-04
100-H-4_Shallow_Focusec	non-Rad	Selenium	7782-49-2	ug/kg	0,410	5.2E+02	7.9E-01	1.9E+03	2.2E-01
100-H-4_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	2.0E+05	1.2E-02	3.6E+08	6.5E-06
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling	TPH/OILH	ug/kg	188,000	No Value	--	No Value	--
100-H-4_Shallow_Focusec	non-Rad	Uranium	7440-61-1	ug/kg	10,100	5.0E+03	**2.0E+00**	7.9E+05	1.3E-02
100-H-4_Shallow_Focusec	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	2.8E-05	6.4E+03	2.3E-04
100-H-4_Shallow_Focusec	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	8.5E-05	5.2E+03	2.6E-04
100-H-4_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	51,500	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
100-H-4_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	62,500	5.0E+04	**1.3E+00**	6.8E+04	9.2E-01
100-H-40_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	2,160	5.0E+03	4.3E-01	6.0E+03	3.6E-01
100-H-40_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	7,830	1.0E+04	7.8E-01	1.9E+05	4.1E-02
100-H-40_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	68,600	3.3E+05	2.1E-01	1.3E+06	5.2E-02
100-H-40_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,019	1.8E+04	1.1E-03	6.4E+04	3.0E-04
100-H-40_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,029	1.8E+04	1.6E-03	7.6E+04	3.7E-04
100-H-40_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,133	1.8E+04	7.4E-03	3.9E+04	3.4E-03
100-H-40_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,002	1.8E+04	1.0E-04	3.9E+04	4.6E-05
100-H-40_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,225	1.0E+04	2.3E-02	1.4E+04	1.6E-02
100-H-40_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	2,840	5.0E+02	**5.7E+00**	1.3E+05	2.1E-02
100-H-40_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,469	4.0E+03	1.2E-01	1.6E+03	2.9E-01
100-H-40_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	11,900	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
100-H-40_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,044	1.8E+04	2.5E-03	4.5E+04	1.0E-03
100-H-40_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	1.3E+04	5.1E-01	1.1E+05	5.9E-02
100-H-40_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	25,700	5.0E+04	5.1E-01	1.1E+05	2.4E-01
100-H-40_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,004	1.8E+04	2.3E-04	4.4E+04	9.2E-05
100-H-40_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,013	1.8E+04	7.3E-04	8.4E+05	1.6E-05
100-H-40_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0,854	2.9E+04	2.9E-02	1.8E+05	4.9E-03
100-H-40_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,031	1.8E+04	1.7E-03	3.6E+04	8.8E-04
100-H-40_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	24,400	5.0E+04	4.9E-01	3.6E+04	6.9E-01
100-H-40_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	325,000	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
100-H-40_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,080	1.0E+02	8.0E-01	1.9E+03	4.3E-02
100-H-40_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,961	2.0E+03	4.8E-01	1.4E+04	6.9E-02
100-H-40_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	13,400	3.0E+04	4.5E-01	3.3E+04	4.1E-01
100-H-40_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,024	1.8E+04	1.4E-03	6.0E+05	4.1E-05
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling	TPH/OILH	ug/kg	170,000	No Value	--	No Value	--
100-H-40_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
100-H-40_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	83,400	5.0E+04	**1.7E+00**	6.8E+04	**1.2E+00**
100-H-41_Shallow_Focusec	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	0,501	2.9E+04	1.7E-02	6.0E+03	8.3E-02
100-H-41_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0,344	2.0E+04	1.7E-02	1.1E+06	3.1E-04
100-H-41_Shallow_Focusec	non-Rad	Anthracene	120-12-7	ug/kg	0,341	2.9E+04	1.2E-02	6.8E+05	5.0E-04
100-H-41_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	8,020	1.0E+04	8.0E-01	1.9E+05	4.2E-02
100-H-41_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	86,200	3.3E+05	2.6E-01	1.3E+06	6.5E-02
100-H-41_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110	1.8E+04	6.2E-02	6.4E+04	1.7E-02
100-H-41_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,971	1.8E+04	5.4E-02	7.6E+04	1.3E-02
100-H-41_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270	1.8E+04	7.1E-02	3.9E+04	3.2E-02
100-H-41_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,396	1.8E+04	2.2E-02	3.9E+04	1.0E-02
100-H-41_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,298	1.0E+04	3.0E-02	1.4E+04	2.1E-02
100-H-41_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,110	5.0E+02	**2.2E+00**	1.3E+05	8.4E-03
100-H-41_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,088	4.0E+03	2.2E-02	1.6E+03	5.4E-02
100-H-41_Shallow_Focusec	non-Rad	Carbazole	86-74-8	ug/kg	3,740	No Value	--	No Value	--
100-H-41_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	18,500	4.0E+02	**4.6E+01**	3.8E+04	4.9E-01
100-H-41_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,854	1.8E+04	4.7E-02	4.5E+04	1.9E-02
100-H-41_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,070	1.3E+04	4.7E-01	1.1E+05	5.4E-02
100-H-41_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	14,200	5.0E+04	2.8E-01	1.1E+05	1.3E-01
100-H-41_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,123	1.8E+04	6.8E-03	4.4E+04	2.8E-03
100-H-41_Shallow_Focusec	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630	No Value	--	No Value	--
100-H-41_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310	1.8E+04	1.3E-01	8.4E+05	2.8E-03
100-H-41_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0,200	2.9E+04	6.9E-03	1.8E+05	1.1E-03
100-H-41_Shallow_Focusec	non-Rad	Fluoride	16984-48-8	ug/kg	0,500	No Value	--	2.3E+06	2.2E-04
100-H-41_Shallow_Focusec	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,200	No Value	--	1.3E+06	1.6E-04
100-H-41_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,593	1.8E+04	3.3E-02	3.6E+04	1.7E-02
100-H-41_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	7,690	5.0E+04	1.5E-01	3.6E+04	2.2E-01
100-H-41_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	281,000	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
100-H-41_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,237	2.0E+03	1.2E-01	1.4E+04	1.7E-02
100-H-41_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0,622	2.9E+04	2.1E-02	1.0E+05	6.2E-03
100-H-41_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	15,300	3.0E+04	5.1E-01	3.3E+04	4.7E-01
100-H-41_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	1,530	1.8E+04	8.5E-02	6.0E+05	2.6E-03
100-H-41_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	2.0E+03	**2.1E+01**	3.1E+04	**1.3E+00**
100-H-41_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	46,500	5.0E+04	9.3E-01	6.8E+04	6.9E-01
100-H-45_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0,288	5.0E+03	5.8E-02	6.0E+03	4.8E-02
100-H-45_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	1,430	1.0E+04	1.4E-01	1.9E+05	7.6E-03
100-H-45_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	32,900	3.3E+05	1.0E-01	1.3E+06	2.5E-02
100-H-45_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,129	1.0E+04	1.3E-02	1.4E+04	9.3E-03
100-H-45_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	0,584	5.0E+02	**1.2E+00**	1.3E+05	4.4E-03
100-H-45_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,054	4.0E+03	1.4E-02	1.6E+03	3.3E-02
100-H-45_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	9,910	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
100-H-45_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	4,180	1.3E+04	3.2E-01	1.1E+05	3.8E-02
100-H-45_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	10,500	5.0E+04	2.1E-01	1.1E+05	9.8E-02
100-H-45_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	1,870	5.0E+04	3.7E-02	3.6E+04	5.3E-02
100-H-45_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	227,000	2.2E+05	**1.0E+00**	5.8E+06	3.9E-02
100-H-45_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,262	2.0E+03	1.3E-01	1.4E+04	1.9E-02
100-H-45_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	7,780	3.0E+04	2.6E-01	3.3E+04	2.4E-01
100-H-45_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080	2.0E+05	5.4E-03	3.6E+08	3.0E-06
100-H-45_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	42,600	2.0E+03	**2.1E+01**	3.1E+04	**1.4E+00**
100-H-45_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	28,200	5.0E+04	5.6E-01	6.8E+04	4.2E-01
100-H-49:2_Shallow_Focusec	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,005	No Value	--	4.0E+02	1.3E-02
100-H-49:2_Shallow_Focusec	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,002	No Value	--	8.8E+02	2.8E-03
100-H-49:2_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0,213	2.0E+04	1.1E-02	1.1E+06	1.9E-04
100-H-49:2_Shallow_Focusec	non-Rad	Anthracene	120-12-7	ug/kg	0,013	2.9E+04	4.6E-04	6.8E+05	2.0E-05
100-H-49:2_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0,332	5.0E+03	6.6E-02	6.0E+03	5.6E-02
100-H-49:2_Shallow_Focusec	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,052	4.0E+04	1.3E-03	1.5E+03	3.5E-02
100-H-49:2_Shallow_Focusec	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,048	4.0E+04	1.2E-03	1.5E+03	3.2E-02
100-H-49:2_Shallow_Focusec	non-Rad	Aroclors HI	---	ug/kg	--	--	2.5E-03	--	6.7E-02
100-H-49:2_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	8,910	1.0E+04	8.9E-01	1.9E+05	4.7E-02
100-H-49:2_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	175,000	3.3E+05	5.3E-01	1.3E+06	1.3E-01
100-H-49:2_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,020	1.8E+04	1.1E-03	6.4E+04	3.1E-04
100-H-49:2_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,034	1.8E+04	1.9E-03	7.6E+04	4.4E-04
100-H-49:2_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,088	1.8E+04	4.9E-03	3.9E+04	2.2E-03
100-H-49:2_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,017	1.8E+04	9.3E-04	3.9E+04	4.3E-04
100-H-49:2_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,337	1.0E+04	3.4E-02	1.4E+04	2.4E-02
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	0,003	No Value	--	4.1E+03	7.5E-04
100-H-49:2_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	5,660	5.0E+02	**1.1E+01**	1.3E+05	4.3E-02
100-H-49:2_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,255	4.0E+03	6.4E-02	1.6E+03	1.6E-01
100-H-49:2_Shallow_Focusec	Rad	Carbon-14	14762-75-5	pCi/g	0,002	6.1E+04	2.6E-05	3.2E+01	5.0E-02
100-H-49:2_Shallow_Focusec	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	5.5E-05	9.2E+02	1.3E-04
100-H-49:2_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	18,800	4.0E+02	**4.7E+01**	3.8E+04	4.9E-01
100-H-49:2_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,316	1.8E+04	1.8E-02	4.5E+04	7.1E-03
100-H-49:2_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,820	1.3E+04	5.3E-01	1.1E+05	6.1E-02
100-H-49:2_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	27,200	5.0E+04	5.4E-01	1.1E+05	2.5E-01
100-H-49:2_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,024	1.8E+04	1.3E-03	4.4E+04	5.4E-04
100-H-49:2_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,248	1.8E+04	1.4E-02	8.4E+05	3.0E-04
100-H-49:2_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0,089	2.9E+04	3.1E-03	1.8E+05	5.1E-04
100-H-49:2_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,051	1.8E+04	2.9E-03	3.6E+04	1.4E-03
100-H-49:2_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	46,200	5.0E+04	9.2E-01	3.6E+04	**1.3E+00**
100-H-49:2_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	291,000	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-H-49:2_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,013	1.0E+02	1.3E-01	1.9E+03	7.0E-03

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-H-49:2_Shallow_Focusec	non-Rad	Methoxychlor	72-43-5	ug/kg	0.002	No Value	--	2.2E+04	7.1E-05
100-H-49:2_Shallow_Focusec	non-Rad	Methylene chloride	75-09-2	ug/kg	0.010	No Value	--	1.7E+05	6.0E-05
100-H-49:2_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0.489	2.0E+03	2.5E-01	1.4E+04	3.5E-02
100-H-49:2_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0.115	2.9E+04	4.0E-03	1.0E+05	1.2E-03
100-H-49:2_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	16,600	3.0E+04	5.5E-01	3.3E+04	5.1E-01
100-H-49:2_Shallow_Focusec	non-Rad	Nitrate	14797-55-8	ug/kg	4,400	No Value	--	3.4E+08	1.3E-05
100-H-49:2_Shallow_Focusec	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360	No Value	--	No Value	--
100-H-49:2_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0.041	1.8E+04	2.3E-03	6.0E+05	6.8E-05
100-H-49:2_Shallow_Focusec	Rad	Rads SOF	---	pCi/g	--	--	8.1E-05	--	5.0E-02
100-H-49:2_Shallow_Focusec	non-Rad	Silver	7440-22-4	ug/kg	0.547	2.0E+03	2.7E-01	5.0E+04	1.1E-02
100-H-49:2_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800	2.0E+05	3.2E-01	3.6E+08	1.8E-04
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000	No Value	--	No Value	--
100-H-49:2_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	48,900	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
100-H-49:2_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	96,700	5.0E+04	**1.9E+00**	6.8E+04	**1.4E+00**
100-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,586	1.0E+04	4.6E-01	1.9E+05	2.4E-02
100-H-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.000	2.2E+03	3.3E-05	9.2E+02	7.8E-05
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,199	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	5.0E+04	2.6E-01	3.6E+04	3.6E-01
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0.072	1.0E+02	7.2E-01	1.9E+03	3.9E-02
100-H-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.1E-05	--	3.4E-04
100-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,869	5.0E+03	3.7E-01	7.9E+05	2.4E-03
100-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.001	5.2E+04	1.2E-05	6.4E+03	9.9E-05
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.000	2.7E+04	6.7E-06	4.4E+03	4.2E-05
100-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.001	1.6E+04	4.0E-05	5.2E+03	1.2E-04
100-H-50_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	4,860	1.0E+04	4.9E-01	1.9E+05	2.6E-02
100-H-50_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	62,000	3.3E+05	1.9E-01	1.3E+06	4.7E-02
100-H-50_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0.272	1.0E+04	2.7E-02	1.4E+04	2.0E-02
100-H-50_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	2,420	5.0E+02	**4.8E+00**	1.3E+05	1.8E-02
100-H-50_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0.140	4.0E+03	3.5E-02	1.6E+03	8.6E-02
100-H-50_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	15,100	4.0E+02	**3.8E+01**	3.8E+04	4.0E-01
100-H-50_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,130	1.3E+04	4.7E-01	1.1E+05	5.5E-02
100-H-50_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	13,700	5.0E+04	2.7E-01	1.1E+05	1.3E-01
100-H-50_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	12,600	5.0E+04	2.5E-01	3.6E+04	3.5E-01
100-H-50_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	284,000	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
100-H-50_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0.034	1.0E+02	3.4E-01	1.9E+03	1.8E-02
100-H-50_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0.361	2.0E+03	1.8E-01	1.4E+04	2.6E-02
100-H-50_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	13,600	3.0E+04	4.5E-01	3.3E+04	4.2E-01
100-H-50_Shallow_Focusec	non-Rad	Selenium	7782-49-2	ug/kg	0.257	5.2E+02	4.9E-01	1.9E+03	1.4E-01
100-H-50_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	53,200	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
100-H-50_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	45,100	5.0E+04	9.0E-01	6.8E+04	6.7E-01
100-H-51:4_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0.003	2.0E+04	1.4E-04	1.1E+06	2.5E-06
100-H-51:4_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	5,940	1.0E+04	5.9E-01	1.9E+05	3.1E-02
100-H-51:4_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	112,000	3.3E+05	3.4E-01	1.3E+06	8.5E-02
100-H-51:4_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.002	1.8E+04	1.0E-04	6.4E+04	2.9E-05
100-H-51:4_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.005	1.8E+04	2.7E-04	7.6E+04	6.4E-05
100-H-51:4_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.006	1.8E+04	3.2E-04	3.9E+04	1.5E-04
100-H-51:4_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.002	1.8E+04	1.2E-04	3.9E+04	5.6E-05
100-H-51:4_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0.345	1.0E+04	3.5E-02	1.4E+04	2.5E-02
100-H-51:4_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,650	5.0E+02	**3.3E+00**	1.3E+05	1.2E-02
100-H-51:4_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0.810	4.0E+03	2.0E-01	1.6E+03	5.0E-01
100-H-51:4_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	13,500	4.0E+02	**3.4E+01**	3.8E+04	3.5E-01
100-H-51:4_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0.001	1.8E+04	5.8E-05	4.5E+04	2.3E-05
100-H-51:4_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	7,450	1.3E+04	5.7E-01	1.1E+05	6.7E-02
100-H-51:4_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	14,700	5.0E+04	2.9E-01	1.1E+05	1.4E-01
100-H-51:4_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0.001	1.8E+04	7.1E-05	8.4E+05	1.5E-06
100-H-51:4_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	6,470	5.0E+04	1.3E-01	3.6E+04	1.8E-01
100-H-51:4_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	504,000	2.2E+05	**2.3E+00**	5.8E+06	8.7E-02
100-H-51:4_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0.045	1.0E+02	4.5E-01	1.9E+03	2.4E-02
100-H-51:4_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0.401	2.0E+03	2.0E-01	1.4E+04	2.9E-02
100-H-51:4_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	12,600	3.0E+04	4.2E-01	3.3E+04	3.9E-01
100-H-51:4_Shallow_Focusec	non-Rad	Selenium	7782-49-2	ug/kg	0.276	5.2E+02	5.3E-01	1.9E+03	1.5E-01
100-H-51:4_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	46,300	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
100-H-51:4_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	79,100	5.0E+04	**1.6E+00**	6.8E+04	**1.2E+00**
100-H-51:5_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0.037	2.0E+04	1.9E-03	1.1E+06	3.4E-05
100-H-51:5_Shallow_Focusec	non-Rad	Anthracene	120-12-7	ug/kg	0.001	2.9E+04	3.2E-05	6.8E+05	1.4E-06
100-H-51:5_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	3,470	1.0E+04	3.5E-01	1.9E+05	1.8E-02
100-H-51:5_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	199,000	3.3E+05	6.0E-01	1.3E+06	1.5E-01
100-H-51:5_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.003	1.8E+04	1.7E-04	6.4E+04	4.6E-05
100-H-51:5_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.006	1.8E+04	3.6E-04	7.6E+04	8.5E-05
100-H-51:5_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.007	1.8E+04	3.8E-04	3.9E+04	1.7E-04
100-H-51:5_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.004	1.8E+04	2.2E-04	3.9E+04	1.0E-04
100-H-51:5_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0.383	1.0E+04	3.8E-02	1.4E+04	2.8E-02
100-H-51:5_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	26,300	5.0E+02	**5.3E+01**	1.3E+05	2.0E-01
100-H-51:5_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0.133	4.0E+03	3.3E-02	1.6E+03	8.2E-02
100-H-51:5_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	11,400	4.0E+02	**2.9E+01**	3.8E+04	3.0E-01
100-H-51:5_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0.016	1.8E+04	8.6E-04	4.5E+04	3.5E-04
100-H-51:5_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	1.3E+04	4.5E-01	1.1E+05	5.2E-02
100-H-51:5_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	13,000	5.0E+04	2.6E-01	1.1E+05	1.2E-01
100-H-51:5_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.004	1.8E+04	2.2E-04	4.4E+04	8.8E-05
100-H-51:5_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0.009	1.8E+04	5.1E-04	8.4E+05	1.1E-05
100-H-51:5_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0.010	2.9E+04	3.6E-04	1.8E+05	5.9E-05
100-H-51:5_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	6,250	5.0E+04	1.3E-01	3.6E+04	1.8E-01
100-H-51:5_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	290,000	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
100-H-51:5_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0.440	2.0E+03	2.2E-01	1.4E+04	3.2E-02
100-H-51:5_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0.016	2.9E+04	5.5E-04	1.0E+05	1.6E-04
100-H-51:5_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	10,700	3.0E+04	3.6E-01	3.3E+04	3.3E-01
100-H-51:5_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0.006	1.8E+04	3.2E-04	6.0E+05	9.6E-06
100-H-51:5_Shallow_Focusec	non-Rad	Selenium	7782-49-2	ug/kg	0.221	5.2E+02	4.3E-01	1.9E+03	1.2E-01
100-H-51:5_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900	2.0E+05	1.0E-01	3.6E+08	5.6E-05
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700	No Value	--	No Value	--
100-H-51:5_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
100-H-51:5_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	36,300	5.0E+04	7.3E-01	6.8E+04	5.4E-01
100-H-53_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0.007	2.0E+04	3.7E-04	1.1E+06	6.7E-06
100-H-53_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	5,580	1.0E+04	5.6E-01	1.9E+05	2.9E-02
100-H-53_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	52,300	3.3E+05	1.6E-01	1.3E+06	4.0E-02
100-H-53_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.061	1.8E+04	3.4E-03	6.4E+04	9.6E-04
100-H-53_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.009	1.8E+04	4.7E-04	7.6E+04	1.1E-04
100-H-53_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.008	1.8E+04	4.3E-04	3.9E+04	2.0E-04
100-H-53_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.003	1.8E+04	1.9E-04	3.9E+04	8.5E-05
100-H-53_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0.231	1.0E+04	2.3E-02	1.4E+04	1.7E-02
100-H-53_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,310	5.0E+02	**2.6E+00**	1.3E+05	9.9E-03
100-H-53_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0.397	4.0E+03	9.9E-02	1.6E+03	2.4E-01
100-H-53_Shallow_Focusec	Rad	Cesium-137	10045-97-3	pCi/g	0.000	2.2E+03	6.9E-05	9.2E+02	1.7E-04
100-H-53_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	15,900	4.0E+02	**4.0E+01**	3.8E+04	4.2E-01
100-H-53_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0.022	1.8E+04	1.2E-03	4.5E+04	4.9E-04
100-H-53_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	10,500	1.3E+04	8.1E-01	1.1E+05	9.4E-02
100-H-53_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	15,800	5.0E+04	3.2E-01	1.1E+05	1.5E-01
100-H-53_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.001	1.8E+04	6.3E-05	4.4E+04	2.6E-05
100-H-53_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0.082	1.8E+04	4.6E-03	8.4E+05	9.8E-05
100-H-53_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0.002	2.9E+04	6.2E-05	1.8E+05	1.0E-05
100-H-53_Shallow_Focusec	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520	No Value	--	1.3E+06	1.2E-03
100-H-53_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0.024	1.8E+04	1.3E-03	3.6E+04	6.6E-04
100-H-53_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	35,900	5.0E+04	7.2E-01	3.6E+04	**1.0E+00**
100-H-53_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	300,000	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
100-H-53_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	2.0E+03	**1.9E+00**	1.4E+04	2.8E-01
100-H-53_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0.007	2.9E+04	2.3E-04	1.0E+05	6.6E-05
100-H-53_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	13,200	3.0E+04	4.4E-01	3.3E+04	4.1E-01
100-H-53_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0.042	1.8E+04	2.3E-03	6.0E+05	6.9E-05
100-H-53_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	2.0E+03	**1.8E+01**	3.1E+04	**1.1E+00**
100-H-53_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	79,900	5.0E+04	**1.6E+00**	6.8E+04	**1.2E+00**
100-H-7_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0.470	5.0E+03	9.4E-02	6.0E+03	7.9E-02
100-H-7_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	1.0E+04	2.6E-01	1.9E+05	1.4E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
100-H-7_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	47,200	3.3E+05	1.4E-01	1.3E+06	3.6E-02
100-H-7_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,330	1.0E+04	3.3E-02	1.4E+04	2.4E-02
100-H-7_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	0,930	5.0E+02	**1.9E+00**	1.3E+05	7.0E-03
100-H-7_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,110	4.0E+03	2.8E-02	1.6E+03	6.8E-02
100-H-7_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	9,700	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
100-H-7_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,800	1.3E+04	5.2E-01	1.1E+05	6.1E-02
100-H-7_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	15,100	5.0E+04	3.0E-01	1.1E+05	1.4E-01
100-H-7_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	8,900	5.0E+04	1.8E-01	3.6E+04	2.5E-01
100-H-7_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	264,000	2.2E+05	**1.2E+00**	5.8E+06	4.6E-02
100-H-7_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,620	2.0E+03	3.1E-01	1.4E+04	4.4E-02
100-H-7_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	9,900	3.0E+04	3.3E-01	3.3E+04	3.0E-01
100-H-7_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	57,100	2.0E+03	**2.9E+01**	3.1E+04	**1.8E+00**
100-H-7_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	39,200	5.0E+04	7.8E-01	6.8E+04	5.8E-01
100-H-8_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0,520	5.0E+03	1.0E-01	6.0E+03	8.7E-02
100-H-8_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	1.0E+04	7.3E-01	1.9E+05	3.9E-02
100-H-8_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	68,100	3.3E+05	2.1E-01	1.3E+06	5.2E-02
100-H-8_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,440	1.0E+04	4.4E-02	1.4E+04	3.2E-02
100-H-8_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,200	5.0E+02	**2.4E+00**	1.3E+05	9.0E-03
100-H-8_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,340	4.0E+03	8.5E-02	1.6E+03	2.1E-01
100-H-8_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	13,500	4.0E+02	**3.4E+01**	3.8E+04	3.5E-01
100-H-8_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	1.3E+04	6.4E-01	1.1E+05	7.4E-02
100-H-8_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	23,400	5.0E+04	4.7E-01	1.1E+05	2.2E-01
100-H-8_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	46,800	5.0E+04	9.4E-01	3.6E+04	**1.3E+00**
100-H-8_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	340,000	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
100-H-8_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,310	1.0E+02	**3.1E+00**	1.9E+03	1.7E-01
100-H-8_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,930	2.0E+03	4.7E-01	1.4E+04	6.7E-02
100-H-8_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	15,200	3.0E+04	5.1E-01	3.3E+04	4.7E-01
100-H-8_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	2.0E+03	**3.2E+01**	3.1E+04	**2.1E+00**
100-H-8_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	53,500	5.0E+04	**1.1E+00**	6.8E+04	7.9E-01
116-H-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,625	1.0E+04	6.6E-01	1.9E+05	3.5E-02
116-H-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.9E-04	9.2E+02	4.5E-04
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,151	4.0E+02	**2.5E+01**	3.8E+04	2.7E-01
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0,001	1.5E+04	4.7E-05	1.7E+03	4.0E-04
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,502	No Value	--	1.3E+06	4.0E-04
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	5.0E+04	2.5E-01	3.6E+04	3.5E-01
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0,000	1.8E+04	8.8E-06	6.0E+03	2.6E-05
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0,000	1.3E+04	5.4E-06	6.3E+03	1.1E-05
116-H-1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	4.6E-04	--	9.0E-03
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,001	3.6E+03	2.1E-04	9.1E+01	8.1E-03
116-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,300	1.0E+04	8.3E-01	1.9E+05	4.4E-02
116-H-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	2.4E-05	9.2E+02	5.7E-05
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	9.0E-06	8.1E+02	6.8E-05
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0,001	1.5E+04	4.5E-05	1.7E+03	3.8E-04
116-H-3_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.8E-05	--	5.0E-04
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,000	No Value	--	4.0E+02	1.1E-03
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	0,022	2.0E+04	1.1E-03	1.1E+06	2.0E-05
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	0,036	2.9E+04	1.3E-03	6.8E+05	5.3E-05
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	0,406	5.0E+03	8.1E-02	6.0E+03	6.8E-02
116-H-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,801	1.0E+04	5.8E-01	1.9E+05	3.1E-02
116-H-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	53,734	3.3E+05	1.6E-01	1.3E+06	4.1E-02
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,047	1.8E+04	2.6E-03	6.4E+04	7.3E-04
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,051	1.8E+04	2.8E-03	7.6E+04	6.7E-04
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,052	1.8E+04	2.9E-03	3.9E+04	1.3E-03
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,024	1.8E+04	1.3E-03	3.9E+04	6.1E-04
116-H-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	0,173	1.0E+04	1.7E-02	1.4E+04	1.2E-02
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,120	1.0E+05	1.2E-03	4.5E+04	2.6E-03
116-H-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,458	5.0E+02	**2.9E+00**	1.3E+05	1.1E-02
116-H-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	0,068	4.0E+03	1.7E-02	1.6E+03	4.2E-02
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	2.2E-05	3.2E+01	4.2E-02
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,538	4.0E+02	**2.9E+01**	3.8E+04	3.0E-01
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	0,069	1.8E+04	3.9E-03	4.5E+04	1.6E-03
116-H-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	5,586	1.3E+04	4.3E-01	1.1E+05	5.0E-02
116-H-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,591	5.0E+04	2.7E-01	1.1E+05	1.3E-01
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,006	1.8E+04	3.6E-04	4.4E+04	1.5E-04
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	0,130	1.8E+04	7.2E-03	8.4E+05	1.6E-04
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	0,008	2.9E+04	2.6E-04	1.8E+05	4.3E-05
116-H-5_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	0,799	No Value	--	2.3E+06	3.5E-04
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,165	No Value	--	1.3E+06	1.3E-04
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,034	1.8E+04	1.9E-03	3.6E+04	9.5E-04
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	5.0E+04	3.3E-01	3.6E+04	4.6E-01
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	258,053	2.2E+05	**1.2E+00**	5.8E+06	4.5E-02
116-H-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	0,275	2.0E+03	1.4E-01	1.4E+04	2.0E-02
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	0,025	2.9E+04	8.7E-04	1.0E+05	2.5E-04
116-H-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,808	3.0E+04	3.6E-01	3.3E+04	3.3E-01
116-H-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	9,911	No Value	--	3.4E+08	2.9E-05
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	0,960	No Value	--	No Value	--
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151	No Value	--	No Value	--
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0,001	1.8E+04	8.2E-05	6.0E+03	2.4E-04
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	0,100	1.8E+04	5.6E-03	6.0E+05	1.7E-04
116-H-5_Overburden	Rad	Rads SOF	---	pCi/g	--	--	1.5E-04	--	4.9E-02
116-H-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	0,156	2.0E+03	7.8E-02	5.0E+04	3.1E-03
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200	2.0E+05	1.6E-02	3.6E+08	9.0E-06
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,500	No Value	--	No Value	--
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996	No Value	--	No Value	--
116-H-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,677	5.0E+03	3.4E-01	7.9E+05	2.1E-03
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0,003	1.7E+06	1.8E-06	4.2E+02	7.2E-03
116-H-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.2E-05	6.4E+03	9.6E-05
116-H-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.6E-05	5.2E+03	1.1E-04
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	44,444	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
116-H-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,379	5.0E+04	8.7E-01	6.8E+04	6.4E-01
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,000	No Value	--	4.0E+02	1.1E-03
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	0,003	2.0E+04	1.4E-04	1.1E+06	2.6E-06
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	0,004	2.9E+04	1.3E-04	6.8E+05	5.5E-06
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	0,378	5.0E+03	7.6E-02	6.0E+03	6.3E-02
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,004	4.0E+04	9.6E-05	1.5E+03	2.6E-03
116-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,405	1.0E+04	5.4E-01	1.9E+05	2.9E-02
116-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,357	3.3E+05	1.9E-01	1.3E+06	4.6E-02
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,011	1.8E+04	6.3E-04	6.4E+04	1.8E-04
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,011	1.8E+04	5.9E-04	7.6E+04	1.4E-04
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,014	1.8E+04	7.8E-04	3.9E+04	3.6E-04
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,006	1.8E+04	3.2E-04	3.9E+04	1.5E-04
116-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,202	1.0E+04	2.0E-02	1.4E+04	1.5E-02
116-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,169	5.0E+02	**4.3E+00**	1.3E+05	1.6E-02
116-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,080	4.0E+03	2.0E-02	1.6E+03	4.9E-02
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	1.7E-05	3.2E+01	3.2E-02
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,831	4.0E+02	**3.5E+01**	3.8E+04	3.6E-01
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,011	1.8E+04	6.0E-04	4.5E+04	2.4E-04
116-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,335	1.3E+04	4.9E-01	1.1E+05	5.7E-02
116-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,502	5.0E+04	2.9E-01	1.1E+05	1.4E-01
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,003	1.8E+04	1.4E-04	4.4E+04	5.9E-05
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0,027	1.8E+04	1.5E-03	8.4E+05	3.3E-05
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	0,002	2.9E+04	5.4E-05	1.8E+05	9.0E-06
116-H-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	0,903	No Value	--	2.3E+06	4.0E-04
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,060	No Value	--	1.3E+06	4.8E-05
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,010	1.8E+04	5.5E-04	3.6E+04	2.8E-04
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	5.0E+04	2.8E-01	3.6E+04	4.0E-01
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	270,919	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,018	1.0E+02	1.8E-01	1.9E+03	9.8E-03
116-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,280	2.0E+03	1.4E-01	1.4E+04	2.0E-02
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	0,015	2.9E+04	5.2E-04	1.0E+05	1.5E-04
116-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,834	3.0E+04	3.9E-01	3.3E+04	3.6E-01
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	0,019	No Value	--	No Value	--

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
116-H-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,424	No Value	--	3.4E+08	2.5E-05
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100	No Value	--	No Value	--
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266	No Value	--	No Value	--
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0,026	1.8E+04	1.4E-03	6.0E+05	4.3E-05
116-H-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	7.5E-04	--	6.8E-02
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,002	3.6E+03	6.7E-04	9.1E+01	2.6E-02
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600	2.0E+05	1.3E-02	3.6E+08	7.3E-06
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,100	No Value	--	No Value	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314	No Value	--	No Value	--
116-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,966	5.0E+03	3.9E-01	7.9E+05	2.5E-03
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0,004	1.7E+06	2.4E-06	4.2E+02	9.7E-03
116-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.4E-05	6.4E+03	1.1E-04
116-H-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0,000	5.2E+04	3.8E-06	6.4E+03	3.1E-05
116-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.2E-05	5.2E+03	1.3E-04
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,734	2.0E+03	**2.4E+01**	3.1E+04	**1.6E+00**
116-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,292	5.0E+04	9.7E-01	6.8E+04	7.1E-01
116-H-5_Staging Pile Area Footprin	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,011	No Value	--	4.0E+02	2.8E-02
116-H-5_Staging Pile Area Footprin	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,005	No Value	--	8.8E+02	6.0E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Anthracene	120-12-7	ug/kg	0,087	2.9E+04	3.0E-03	6.8E+05	1.3E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,015	4.0E+04	3.8E-04	1.5E+03	1.0E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,010	4.0E+04	2.5E-04	1.5E+03	6.8E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Aroclors HI	---	ug/kg	--	--	6.3E-04	--	1.7E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	1.0E+04	**1.0E+00**	1.9E+05	5.4E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Barium	7440-39-3	ug/kg	75,287	3.3E+05	2.3E-01	1.3E+06	5.7E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,076	1.8E+04	4.2E-03	6.4E+04	1.2E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,059	1.8E+04	3.3E-03	7.6E+04	7.7E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,064	1.8E+04	3.6E-03	3.9E+04	1.6E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,029	1.8E+04	1.6E-03	3.9E+04	7.4E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Beryllium	7440-41-7	ug/kg	0,142	1.0E+04	1.4E-02	1.4E+04	1.0E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,122	1.0E+05	1.2E-03	4.5E+04	2.7E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Boron	7440-42-8	ug/kg	2,700	5.0E+02	**5.4E+00**	1.3E+05	2.0E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Cadmium	7440-43-9	ug/kg	0,112	4.0E+03	2.8E-02	1.6E+03	6.9E-02
116-H-5_Staging Pile Area Footprin	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	3.1E-05	9.2E+02	7.4E-05
116-H-5_Staging Pile Area Footprin	non-Rad	Chromium	7440-47-3	ug/kg	10,981	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
116-H-5_Staging Pile Area Footprin	non-Rad	Chrysene	218-01-9	ug/kg	0,059	1.8E+04	3.3E-03	4.5E+04	1.3E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Cobalt	7440-48-4	ug/kg	6,774	1.3E+04	5.2E-01	1.1E+05	6.1E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Copper	7440-50-8	ug/kg	14,733	5.0E+04	3.0E-01	1.1E+05	1.4E-01
116-H-5_Staging Pile Area Footprin	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,026	1.8E+04	1.4E-03	4.4E+04	5.9E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Fluoranthene	206-44-0	ug/kg	0,400	1.8E+04	2.2E-02	8.4E+05	4.8E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Fluorene	86-73-7	ug/kg	0,057	2.9E+04	2.0E-03	1.8E+05	3.3E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Fluoride	16984-48-8	ug/kg	1,166	No Value	--	2.3E+06	5.1E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,042	1.8E+04	2.3E-03	3.6E+04	1.2E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Lead	7439-92-1	ug/kg	45,682	5.0E+04	9.1E-01	3.6E+04	**1.3E+00**
116-H-5_Staging Pile Area Footprin	non-Rad	Manganese	7439-96-5	ug/kg	280,936	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Mercury	7439-97-6	ug/kg	0,012	1.0E+02	1.2E-01	1.9E+03	6.2E-03
116-H-5_Staging Pile Area Footprin	non-Rad	Molybdenum	7439-98-7	ug/kg	0,330	2.0E+03	1.7E-01	1.4E+04	2.4E-02
116-H-5_Staging Pile Area Footprin	non-Rad	Nickel	7440-02-0	ug/kg	10,771	3.0E+04	3.6E-01	3.3E+04	3.3E-01
116-H-5_Staging Pile Area Footprin	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800	No Value	--	No Value	--
116-H-5_Staging Pile Area Footprin	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900	No Value	--	No Value	--
116-H-5_Staging Pile Area Footprin	non-Rad	Pyrene	129-00-0	ug/kg	0,137	1.8E+04	7.6E-03	6.0E+05	2.3E-04
116-H-5_Staging Pile Area Footprin	Rad	Rads SOF	---	pCi/g	--	--	8.5E-05	--	3.0E-04
116-H-5_Staging Pile Area Footprin	Rad	Technetium-99	14133-76-7	pCi/g	0,001	2.2E+04	3.7E-05	5.4E+03	1.5E-04
116-H-5_Staging Pile Area Footprin	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400	2.0E+05	3.7E-02	3.6E+08	2.1E-05
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	20,867	No Value	--	No Value	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039	No Value	--	No Value	--
116-H-5_Staging Pile Area Footprin	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	0,703	5.0E+03	1.4E-01	7.9E+05	8.9E-04
116-H-5_Staging Pile Area Footprin	Rad	Uranium-234	13966-29-5	pCi/g	0,000	5.2E+04	4.5E-06	6.4E+03	3.6E-05
116-H-5_Staging Pile Area Footprin	Rad	Uranium-238	U-238	pCi/g	0,000	1.6E+04	1.3E-05	5.2E+03	3.8E-05
116-H-5_Staging Pile Area Footprin	non-Rad	Vanadium	7440-62-2	ug/kg	47,752	2.0E+03	**2.4E+01**	3.1E+04	**1.5E+00**
116-H-5_Staging Pile Area Footprin	non-Rad	Zinc	7440-66-6	ug/kg	40,271	5.0E+04	8.1E-01	6.8E+04	5.9E-01
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,077	4.0E+04	1.9E-03	1.5E+03	5.2E-02
116-H-7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,172	1.0E+04	4.2E-01	1.9E+05	2.2E-02
116-H-7_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	4.7E-05	9.2E+02	1.1E-04
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,042	4.0E+02	**2.8E+01**	3.8E+04	2.9E-01
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,590	No Value	--	1.3E+06	4.7E-04
116-H-7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,806	5.0E+04	2.0E-01	3.6E+04	2.8E-01
116-H-7_Overburden	Rad	Rads SOF	---	pCi/g	--	--	8.9E-05	--	2.9E-04
116-H-7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	5.0E+03	3.1E-01	7.9E+05	2.0E-03
116-H-7_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0,000	5.2E+04	8.8E-06	6.4E+03	7.1E-05
116-H-7_Overburden	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.3E-05	5.2E+03	1.0E-04
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,660	4.0E+04	1.7E-02	1.5E+03	4.5E-01
116-H-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,540	1.0E+04	5.5E-01	1.9E+05	2.9E-02
116-H-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	5.6E-05	9.2E+02	1.3E-04
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	4.0E+02	**4.9E+01**	3.8E+04	5.2E-01
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0,001	1.5E+04	4.6E-05	1.7E+03	3.9E-04
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,958	No Value	--	1.3E+06	7.7E-04
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	5.0E+04	4.1E-01	3.6E+04	5.7E-01
116-H-7_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.5E-04	--	7.1E-04
116-H-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,583	5.0E+03	3.2E-01	7.9E+05	2.0E-03
116-H-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.0E-05	6.4E+03	8.4E-05
116-H-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.4E-05	5.2E+03	1.0E-04
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	0,435	5.0E+03	8.7E-02	6.0E+03	7.3E-02
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,023	4.0E+04	5.8E-04	1.5E+03	1.6E-02
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,010	4.0E+04	2.4E-04	1.5E+03	6.5E-03
116-H-9_Shallow	non-Rad	Aroclors HI	---	ug/kg	--	--	8.2E-04	--	2.2E-02
116-H-9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,605	1.0E+04	3.6E-01	1.9E+05	1.9E-02
116-H-9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,597	3.3E+05	2.1E-01	1.3E+06	5.2E-02
116-H-9_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,272	1.0E+04	2.7E-02	1.4E+04	2.0E-02
116-H-9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,253	5.0E+02	**2.5E+00**	1.3E+05	9.4E-03
116-H-9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,100	4.0E+03	2.5E-02	1.6E+03	6.2E-02
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,945	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
116-H-9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,313	1.3E+04	4.9E-01	1.1E+05	5.7E-02
116-H-9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,904	5.0E+04	2.8E-01	1.1E+05	1.3E-01
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,262	No Value	--	1.3E+06	2.1E-04
116-H-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,609	5.0E+04	1.3E-01	3.6E+04	1.9E-01
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	286,352	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,015	1.0E+02	1.5E-01	1.9E+03	8.0E-03
116-H-9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,243	2.0E+03	1.2E-01	1.4E+04	1.7E-02
116-H-9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,510	3.0E+04	3.5E-01	3.3E+04	3.2E-01
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0,000	1.8E+04	1.5E-06	6.0E+03	4.5E-06
116-H-9_Shallow	Rad	Rads SOF	---	pCi/g	--	--	5.9E-05	--	2.4E-04
116-H-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,072	5.0E+03	4.1E-01	7.9E+05	2.6E-03
116-H-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.3E-05	6.4E+03	1.1E-04
116-H-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.4E-05	5.2E+03	1.4E-04
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,911	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
116-H-9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	37,067	5.0E+04	7.4E-01	6.8E+04	5.5E-01
118-H-1:1_Overburder	non-Rad	Acenaphthene	83-32-9	ug/kg	0,075	2.0E+04	3.7E-03	1.1E+06	6.8E-05
118-H-1:1_Overburder	non-Rad	Anthracene	120-12-7	ug/kg	0,008	2.9E+04	2.8E-04	6.8E+05	1.2E-05
118-H-1:1_Overburder	non-Rad	Antimony	7440-36-0	ug/kg	0,489	5.0E+03	9.8E-02	6.0E+03	8.2E-02
118-H-1:1_Overburder	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,008	4.0E+04	2.1E-04	1.5E+03	5.7E-03
118-H-1:1_Overburder	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,010	4.0E+04	2.6E-04	1.5E+03	7.1E-03
118-H-1:1_Overburder	non-Rad	Aroclors HI	---	ug/kg	--	--	4.7E-04	--	1.3E-02
118-H-1:1_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	5,698	1.0E+04	5.7E-01	1.9E+05	3.0E-02
118-H-1:1_Overburder	non-Rad	Barium	7440-39-3	ug/kg	101,322	3.3E+05	3.1E-01	1.3E+06	7.7E-02
118-H-1:1_Overburder	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,034	1.8E+04	1.9E-03	6.4E+04	5.4E-04
118-H-1:1_Overburder	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,057	1.8E+04	3.2E-03	7.6E+04	7.5E-04
118-H-1:1_Overburder	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,033	1.8E+04	1.8E-03	3.9E+04	8.3E-04
118-H-1:1_Overburder	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,019	1.8E+04	1.1E-03	3.9E+04	4.9E-04
118-H-1:1_Overburder	non-Rad	Beryllium	7440-41-7	ug/kg	0,288	1.0E+04	2.9E-02	1.4E+04	2.1E-02
118-H-1:1_Overburder	non-Rad	Boron	7440-42-8	ug/kg	10,532	5.0E+02	**2.1E+01**	1.3E+05	7.9E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-1:1_Overburder	non-Rad	Cadmium	7440-43-9	ug/kg	0,076	4.0E+03	1.9E-02	1.6E+03	4.7E-02
118-H-1:1_Overburder	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	2.3E-05	3.2E+01	4.4E-02
118-H-1:1_Overburder	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	2.8E-05	9.2E+02	6.6E-05
118-H-1:1_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	13,618	4.0E+02	**3.4E+01**	3.8E+04	3.6E-01
118-H-1:1_Overburder	non-Rad	Chrysene	218-01-9	ug/kg	0,051	1.8E+04	2.8E-03	4.5E+04	1.1E-03
118-H-1:1_Overburder	non-Rad	Cobalt	7440-48-4	ug/kg	7,752	1.3E+04	6.0E-01	1.1E+05	7.0E-02
118-H-1:1_Overburder	non-Rad	Copper	7440-50-8	ug/kg	16,317	5.0E+04	3.3E-01	1.1E+05	1.5E-01
118-H-1:1_Overburder	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,005	1.8E+04	2.5E-04	4.4E+04	1.0E-04
118-H-1:1_Overburder	non-Rad	Fluoranthene	206-44-0	ug/kg	0,134	1.8E+04	7.4E-03	8.4E+05	1.6E-04
118-H-1:1_Overburder	non-Rad	Fluorene	86-73-7	ug/kg	0,007	2.9E+04	2.3E-04	1.8E+05	3.9E-05
118-H-1:1_Overburder	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,079	1.8E+04	4.4E-03	3.6E+04	2.2E-03
118-H-1:1_Overburder	non-Rad	Lead	7439-92-1	ug/kg	17,746	5.0E+04	3.6E-01	3.6E+04	5.0E-01
118-H-1:1_Overburder	non-Rad	Manganese	7439-96-5	ug/kg	344,387	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
118-H-1:1_Overburder	non-Rad	Mercury	7439-97-6	ug/kg	0,011	1.0E+02	1.1E-01	1.9E+03	5.9E-03
118-H-1:1_Overburder	non-Rad	Molybdenum	7439-98-7	ug/kg	0,366	2.0E+03	1.8E-01	1.4E+04	2.6E-02
118-H-1:1_Overburder	non-Rad	Naphthalene	91-20-3	ug/kg	0,013	2.9E+04	4.6E-04	1.0E+05	1.3E-04
118-H-1:1_Overburder	non-Rad	Nickel	7440-02-0	ug/kg	13,289	3.0E+04	4.4E-01	3.3E+04	4.1E-01
118-H-1:1_Overburder	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753	No Value	--	No Value	--
118-H-1:1_Overburder	non-Rad	Pyrene	129-00-0	ug/kg	0,117	1.8E+04	6.5E-03	6.0E+05	2.0E-04
118-H-1:1_Overburder	Rad	Rads SOF	---	pCi/g	--	--	5.0E-05	--	4.4E-02
118-H-1:1_Overburder	non-Rad	Selenium	7782-49-2	ug/kg	0,326	5.2E+02	6.3E-01	1.9E+03	1.7E-01
118-H-1:1_Overburder	non-Rad	Silver	7440-22-4	ug/kg	0,224	2.0E+03	1.1E-01	5.0E+04	4.5E-03
118-H-1:1_Overburder	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992	2.0E+05	4.5E-02	3.6E+08	2.5E-05
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814	No Value	--	No Value	--
118-H-1:1_Overburder	non-Rad	Vanadium	7440-62-2	ug/kg	58,281	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
118-H-1:1_Overburder	non-Rad	Zinc	7440-66-6	ug/kg	44,523	5.0E+04	8.9E-01	6.8E+04	6.6E-01
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	0,003	2.0E+04	1.3E-04	1.1E+06	2.3E-06
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	0,004	2.9E+04	1.2E-04	6.8E+05	5.3E-06
118-H-1:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,459	1.0E+04	3.5E-01	1.9E+05	1.8E-02
118-H-1:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	49,873	3.3E+05	1.5E-01	1.3E+06	3.8E-02
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,011	1.8E+04	6.3E-04	6.4E+04	1.8E-04
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,010	1.8E+04	5.5E-04	7.6E+04	1.3E-04
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,008	1.8E+04	4.6E-04	3.9E+04	2.1E-04
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,005	1.8E+04	2.9E-04	3.9E+04	1.3E-04
118-H-1:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,181	1.0E+04	1.8E-02	1.4E+04	1.3E-02
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,456	5.0E+02	**2.9E+00**	1.3E+05	1.1E-02
118-H-1:1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,050	4.0E+03	1.2E-02	1.6E+03	3.1E-02
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	0,002	6.1E+04	3.1E-05	3.2E+01	6.0E-02
118-H-1:1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	7.9E-05	9.2E+02	1.9E-04
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,810	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	0,011	1.8E+04	5.9E-04	4.5E+04	2.4E-04
118-H-1:1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,630	1.3E+04	4.3E-01	1.1E+05	5.1E-02
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	3.1E-05	8.1E+02	2.4E-04
118-H-1:1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,893	5.0E+04	2.6E-01	1.1E+05	1.2E-01
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,003	1.8E+04	1.9E-04	4.4E+04	7.7E-05
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	1.4E-05	1.7E+03	1.2E-04
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	0,017	1.8E+04	9.6E-04	8.4E+05	2.1E-05
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	0,002	2.9E+04	5.2E-05	1.8E+05	8.6E-06
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,010	1.8E+04	5.3E-04	3.6E+04	2.7E-04
118-H-1:1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	6,609	5.0E+04	1.3E-01	3.6E+04	1.9E-01
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	252,370	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	0,018	1.0E+02	1.8E-01	1.9E+03	9.6E-03
118-H-1:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	0,249	2.0E+03	1.3E-01	1.4E+04	1.8E-02
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	0,003	2.9E+04	1.2E-04	1.0E+05	3.3E-05
118-H-1:1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,583	3.0E+04	3.5E-01	3.3E+04	3.3E-01
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340	No Value	--	No Value	--
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0,003	1.3E+04	2.2E-04	6.3E+03	4.5E-04
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	0,036	1.8E+04	2.0E-03	6.0E+05	6.0E-05
118-H-1:1_Shallow_1	Rad	Rads SOF	---	pCi/g	--	--	7.9E-04	--	8.5E-02
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	5.2E+02	**1.9E+00**	1.9E+03	5.3E-01
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,001	3.6E+03	4.1E-04	9.1E+01	1.6E-02
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315	No Value	--	No Value	--
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0,003	1.7E+06	2.0E-06	4.2E+02	8.1E-03
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,653	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
118-H-1:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	33,577	5.0E+04	6.7E-01	6.8E+04	5.0E-01
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	0,002	2.0E+04	9.2E-05	1.1E+06	1.7E-06
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	0,003	2.9E+04	1.0E-04	6.8E+05	4.5E-06
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	0,257	5.0E+03	5.1E-02	6.0E+03	4.3E-02
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,005	4.0E+04	1.3E-04	1.5E+03	3.4E-03
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,004	4.0E+04	9.1E-05	1.5E+03	2.5E-03
118-H-1:1_Shallow_2	non-Rad	Aroclors HI	---	ug/kg	--	--	2.2E-04	--	5.9E-03
118-H-1:1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,887	1.0E+04	2.9E-01	1.9E+05	1.5E-02
118-H-1:1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	51,004	3.3E+05	1.6E-01	1.3E+06	3.9E-02
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,009	1.8E+04	5.0E-04	6.4E+04	1.4E-04
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,003	1.8E+04	1.8E-04	7.6E+04	4.3E-05
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,008	1.8E+04	4.3E-04	3.9E+04	2.0E-04
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,004	1.8E+04	2.4E-04	3.9E+04	1.1E-04
118-H-1:1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,182	1.0E+04	1.8E-02	1.4E+04	1.3E-02
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,763	5.0E+02	**3.5E+00**	1.3E+05	1.3E-02
118-H-1:1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,114	4.0E+03	2.9E-02	1.6E+03	7.0E-02
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	0,002	6.1E+04	3.1E-05	3.2E+01	5.9E-02
118-H-1:1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0,001	2.2E+03	2.4E-04	9.2E+02	5.6E-04
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,051	4.0E+02	**3.0E+01**	3.8E+04	3.2E-01
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	0,004	1.8E+04	2.1E-04	4.5E+04	8.4E-05
118-H-1:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,566	1.3E+04	4.3E-01	1.1E+05	5.0E-02
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	1.8E-05	8.1E+02	1.4E-04
118-H-1:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,353	5.0E+04	2.9E-01	1.1E+05	1.3E-01
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,001	1.8E+04	8.1E-05	4.4E+04	3.3E-05
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	1.8E-05	1.7E+03	1.5E-04
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	0,021	1.8E+04	1.2E-03	8.4E+05	2.5E-05
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	0,002	2.9E+04	5.2E-05	1.8E+05	8.6E-06
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,004	1.8E+04	2.2E-04	3.6E+04	1.1E-04
118-H-1:1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,641	5.0E+04	7.3E-02	3.6E+04	1.0E-01
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	254,153	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	0,057	1.0E+02	5.7E-01	1.9E+03	3.1E-02
118-H-1:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,237	2.0E+03	1.2E-01	1.4E+04	1.7E-02
118-H-1:1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,937	3.0E+04	4.0E-01	3.3E+04	3.7E-01
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	0,009	No Value	--	No Value	--
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950	No Value	--	No Value	--
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	0,009	1.8E+04	5.1E-04	6.0E+05	1.5E-05
118-H-1:1_Shallow_2	Rad	Rads SOF	---	pCi/g	--	--	9.6E-04	--	9.4E-02
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,002	3.6E+03	6.5E-04	9.1E+01	2.6E-02
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880	No Value	--	No Value	--
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0,004	1.7E+06	2.4E-06	4.2E+02	9.6E-03
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,883	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-1:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	34,227	5.0E+04	6.9E-01	6.8E+04	5.1E-01
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	0,007	2.0E+04	3.5E-04	1.1E+06	6.3E-06
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	0,226	5.0E+03	4.5E-02	6.0E+03	3.8E-02
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,029	4.0E+04	7.1E-04	1.5E+03	1.9E-02
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,028	4.0E+04	7.1E-04	1.5E+03	1.9E-02
118-H-1:1_Shallow_Focused	non-Rad	Aroclors HI	---	ug/kg	--	--	1.4E-03	--	3.9E-02
118-H-1:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,110	1.0E+04	4.1E-01	1.9E+05	2.2E-02
118-H-1:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	98,300	3.3E+05	3.0E-01	1.3E+06	7.4E-02
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,005	1.8E+04	2.5E-04	6.4E+04	7.1E-05
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,005	1.8E+04	3.0E-04	7.6E+04	7.0E-05
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,010	1.8E+04	5.4E-04	3.9E+04	2.5E-04
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,002	1.8E+04	1.4E-04	3.9E+04	6.2E-05
118-H-1:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	0,206	1.0E+04	2.1E-02	1.4E+04	1.5E-02
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	5.0E+02	**8.3E+00**	1.3E+05	3.1E-02
118-H-1:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	0,306	4.0E+03	7.7E-02	1.6E+03	1.9E-01
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0,002	6.1E+04	3.5E-05	3.2E+01	6.7E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-1:1_Shallow_Focusec	Rad	Cesium-137	10045-97-3	pCi/g	0,001	2.2E+03	4.6E-04	9.2E+02	1.1E-03
118-H-1:1_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	22,000	4.0E+02	**5.5E+01**	3.8E+04	5.8E-01
118-H-1:1_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,025	1.8E+04	1.4E-03	4.5E+04	5.7E-04
118-H-1:1_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	7,740	1.3E+04	6.0E-01	1.1E+05	6.9E-02
118-H-1:1_Shallow_Focusec	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	1.0E-05	8.1E+02	7.7E-05
118-H-1:1_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	18,700	5.0E+04	3.7E-01	1.1E+05	1.8E-01
118-H-1:1_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,001	1.8E+04	4.9E-05	4.4E+04	2.0E-05
118-H-1:1_Shallow_Focusec	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	2.1E-05	1.7E+03	1.7E-04
118-H-1:1_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,017	1.8E+04	9.6E-04	8.4E+05	2.1E-05
118-H-1:1_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,015	1.8E+04	8.4E-04	3.6E+04	4.3E-04
118-H-1:1_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	10,900	5.0E+04	2.2E-01	3.6E+04	3.1E-01
118-H-1:1_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	295,000	2.2E+05	**1.3E+00**	5.8E+06	5.1E-02
118-H-1:1_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0,202	1.0E+02	**2.0E+00**	1.9E+03	1.1E-01
118-H-1:1_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,341	2.0E+03	1.7E-01	1.4E+04	2.4E-02
118-H-1:1_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0,008	2.9E+04	2.8E-04	1.0E+05	8.2E-05
118-H-1:1_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	12,600	3.0E+04	4.2E-01	3.3E+04	3.9E-01
118-H-1:1_Shallow_Focusec	Rad	Nickel-63	13981-37-8	pCi/g	0,011	No Value	--	No Value	--
118-H-1:1_Shallow_Focusec	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480	No Value	--	No Value	--
118-H-1:1_Shallow_Focusec	Rad	Plutonium-239/240	PU-239/240	pCi/g	0,000	1.3E+04	2.8E-05	6.3E+03	5.6E-05
118-H-1:1_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,011	1.8E+04	6.3E-04	6.0E+05	1.9E-05
118-H-1:1_Shallow_Focusec	Rad	Rads SOF	---	pCi/g	--	--	9.5E-04	--	1.0E-01
118-H-1:1_Shallow_Focusec	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,001	3.6E+03	3.9E-04	9.1E+01	1.6E-02
118-H-1:1_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500	2.0E+05	8.8E-02	3.6E+08	4.9E-05
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300	No Value	--	No Value	--
118-H-1:1_Shallow_Focusec	Rad	Tritium	10028-17-8	pCi/g	0,009	1.7E+06	5.2E-06	4.2E+02	2.1E-02
118-H-1:1_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	2.0E+03	**2.3E+01**	3.1E+04	**1.4E+00**
118-H-1:1_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	40,700	5.0E+04	8.1E-01	6.8E+04	6.0E-01
118-H-1:1_Staging Pile Area Footprin	non-Rad	Acenaphthene	83-32-9	ug/kg	0,005	2.0E+04	2.7E-04	1.1E+06	4.9E-06
118-H-1:1_Staging Pile Area Footprin	non-Rad	Arsenic	7440-38-2	ug/kg	3,372	1.0E+04	3.4E-01	1.9E+05	1.8E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Barium	7440-39-3	ug/kg	47,506	3.3E+05	1.4E-01	1.3E+06	3.6E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,002	1.8E+04	8.6E-05	6.4E+04	2.4E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,002	1.8E+04	1.1E-04	7.6E+04	2.5E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,002	1.8E+04	1.2E-04	3.9E+04	5.6E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,001	1.8E+04	7.2E-05	3.9E+04	3.3E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Beryllium	7440-41-7	ug/kg	0,182	1.0E+04	1.8E-02	1.4E+04	1.3E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Boron	7440-42-8	ug/kg	1,217	5.0E+02	**2.4E+00**	1.3E+05	9.2E-03
118-H-1:1_Staging Pile Area Footprin	non-Rad	Cadmium	7440-43-9	ug/kg	0,087	4.0E+03	2.2E-02	1.6E+03	5.4E-02
118-H-1:1_Staging Pile Area Footprin	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	1.9E-05	3.2E+01	3.6E-02
118-H-1:1_Staging Pile Area Footprin	Rad	Cesium-137	10045-97-3	pCi/g	0,001	2.2E+03	3.1E-04	9.2E+02	7.5E-04
118-H-1:1_Staging Pile Area Footprin	non-Rad	Chromium	7440-47-3	ug/kg	12,039	4.0E+02	**3.0E+01**	3.8E+04	3.2E-01
118-H-1:1_Staging Pile Area Footprin	non-Rad	Chrysene	218-01-9	ug/kg	0,002	1.8E+04	1.2E-04	4.5E+04	4.7E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Cobalt	7440-48-4	ug/kg	5,255	1.3E+04	4.0E-01	1.1E+05	4.7E-02
118-H-1:1_Staging Pile Area Footprin	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	2.0E-05	8.1E+02	1.6E-04
118-H-1:1_Staging Pile Area Footprin	non-Rad	Copper	7440-50-8	ug/kg	13,136	5.0E+04	2.6E-01	1.1E+05	1.2E-01
118-H-1:1_Staging Pile Area Footprin	Rad	Europium-152	14683-23-9	pCi/g	0,000	1.5E+04	1.3E-05	1.7E+03	1.1E-04
118-H-1:1_Staging Pile Area Footprin	non-Rad	Fluoranthene	206-44-0	ug/kg	0,004	1.8E+04	2.1E-04	8.4E+05	4.5E-06
118-H-1:1_Staging Pile Area Footprin	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,002	1.8E+04	9.9E-05	3.6E+04	5.0E-05
118-H-1:1_Staging Pile Area Footprin	non-Rad	Lead	7439-92-1	ug/kg	5,802	5.0E+04	1.2E-01	3.6E+04	1.6E-01
118-H-1:1_Staging Pile Area Footprin	non-Rad	Manganese	7439-96-5	ug/kg	254,283	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Mercury	7439-97-6	ug/kg	0,032	1.0E+02	3.2E-01	1.9E+03	1.7E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Molybdenum	7439-98-7	ug/kg	0,223	2.0E+03	1.1E-01	1.4E+04	1.6E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Nickel	7440-02-0	ug/kg	10,780	3.0E+04	3.6E-01	3.3E+04	3.3E-01
118-H-1:1_Staging Pile Area Footprin	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861	No Value	--	No Value	--
118-H-1:1_Staging Pile Area Footprin	non-Rad	Pyrene	129-00-0	ug/kg	0,006	1.8E+04	3.2E-04	6.0E+05	9.5E-06
118-H-1:1_Staging Pile Area Footprin	Rad	Rads SOF	---	pCi/g	--	--	5.0E-04	--	4.9E-02
118-H-1:1_Staging Pile Area Footprin	non-Rad	Silver	7440-22-4	ug/kg	0,131	2.0E+03	6.6E-02	5.0E+04	2.6E-03
118-H-1:1_Staging Pile Area Footprin	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,000	3.6E+03	1.4E-04	9.1E+01	5.4E-03
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617	No Value	--	No Value	--
118-H-1:1_Staging Pile Area Footprin	Rad	Tritium	10028-17-8	pCi/g	0,003	1.7E+06	1.6E-06	4.2E+02	6.4E-03
118-H-1:1_Staging Pile Area Footprin	non-Rad	Vanadium	7440-62-2	ug/kg	42,420	2.0E+03	**2.1E+01**	3.1E+04	**1.4E+00**
118-H-1:1_Staging Pile Area Footprin	non-Rad	Zinc	7440-66-6	ug/kg	32,172	5.0E+04	6.4E-01	6.8E+04	4.8E-01
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	0,012	2.9E+04	4.1E-04	6.8E+05	1.8E-05
118-H-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,301	1.0E+04	4.3E-01	1.9E+05	2.3E-02
118-H-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,725	3.3E+05	2.7E-01	1.3E+06	6.7E-02
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,028	1.8E+04	1.5E-03	6.4E+04	4.3E-04
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,033	1.8E+04	1.9E-03	7.6E+04	4.4E-04
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,024	1.8E+04	1.4E-03	3.9E+04	6.2E-04
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,040	1.8E+04	2.2E-03	3.9E+04	1.0E-03
118-H-1:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,207	1.0E+04	2.1E-02	1.4E+04	1.5E-02
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,323	5.0E+02	**4.7E+00**	1.3E+05	1.8E-02
118-H-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,136	4.0E+03	3.4E-02	1.6E+03	8.3E-02
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,971	4.0E+02	**3.2E+01**	3.8E+04	3.4E-01
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,033	1.8E+04	1.8E-03	4.5E+04	7.4E-04
118-H-1:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,234	1.3E+04	6.3E-01	1.1E+05	7.4E-02
118-H-1:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,149	5.0E+04	3.4E-01	1.1E+05	1.6E-01
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0,076	1.8E+04	4.2E-03	8.4E+05	9.0E-05
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	0,007	2.9E+04	2.5E-04	1.8E+05	4.2E-05
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,544	No Value	--	1.3E+06	4.4E-04
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,068	1.8E+04	3.8E-03	3.6E+04	1.9E-03
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	5.0E+04	2.2E-01	3.6E+04	3.1E-01
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	340,196	2.2E+05	**1.6E+00**	5.8E+06	5.9E-02
118-H-1:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,010	1.0E+02	1.0E-01	1.9E+03	5.4E-03
118-H-1:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,300	2.0E+03	1.5E-01	1.4E+04	2.2E-02
118-H-1:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,022	3.0E+04	4.3E-01	3.3E+04	4.0E-01
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0,084	1.8E+04	4.7E-03	6.0E+05	1.4E-04
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600	2.0E+05	3.8E-02	3.6E+08	2.1E-05
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,042	No Value	--	No Value	--
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0,000	1.7E+06	3.8E-08	4.2E+02	1.5E-04
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	44,407	2.0E+03	**2.2E+01**	3.1E+04	**1.4E+00**
118-H-1:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,743	5.0E+04	8.8E-01	6.8E+04	6.5E-01
118-H-1:2_Shallow_Focusec	non-Rad	Anthracene	120-12-7	ug/kg	0,008	2.9E+04	2.6E-04	6.8E+05	1.1E-05
118-H-1:2_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	1.0E+04	3.7E-01	1.9E+05	2.0E-02
118-H-1:2_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	53,700	3.3E+05	1.6E-01	1.3E+06	4.1E-02
118-H-1:2_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,043	1.8E+04	2.4E-03	6.4E+04	6.7E-04
118-H-1:2_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,033	1.8E+04	1.8E-03	7.6E+04	4.3E-04
118-H-1:2_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,035	1.8E+04	1.9E-03	3.9E+04	8.9E-04
118-H-1:2_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,016	1.8E+04	8.9E-04	3.9E+04	4.1E-04
118-H-1:2_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,110	1.0E+04	1.1E-02	1.4E+04	7.9E-03
118-H-1:2_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,300	5.0E+02	**2.6E+00**	1.3E+05	9.8E-03
118-H-1:2_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,120	4.0E+03	3.0E-02	1.6E+03	7.4E-02
118-H-1:2_Shallow_Focusec	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	1.3E-05	3.2E+01	2.6E-02
118-H-1:2_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	12,000	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
118-H-1:2_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,035	1.8E+04	1.9E-03	4.5E+04	7.9E-04
118-H-1:2_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,600	1.3E+04	5.1E-01	1.1E+05	5.9E-02
118-H-1:2_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	15,100	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-H-1:2_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,083	1.8E+04	4.6E-03	8.4E+05	9.9E-05
118-H-1:2_Shallow_Focusec	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,369	No Value	--	1.3E+06	3.0E-04
118-H-1:2_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,026	1.8E+04	1.4E-03	3.6E+04	7.3E-04
118-H-1:2_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	11,700	5.0E+04	2.3E-01	3.6E+04	3.3E-01
118-H-1:2_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	273,000	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
118-H-1:2_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	12,200	3.0E+04	4.1E-01	3.3E+04	3.7E-01
118-H-1:2_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,052	1.8E+04	2.9E-03	6.0E+05	8.7E-05
118-H-1:2_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	2.0E+05	1.2E-02	3.6E+08	6.7E-06
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,100	No Value	--	No Value	--
118-H-1:2_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	37,100	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
118-H-1:2_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	36,800	5.0E+04	7.4E-01	6.8E+04	5.4E-01
118-H-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,041	1.0E+04	5.0E-01	1.9E+05	2.7E-02
118-H-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,447	3.3E+05	2.0E-01	1.3E+06	4.9E-02
118-H-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,224	1.0E+04	2.2E-02	1.4E+04	1.6E-02
118-H-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,365	5.0E+02	**2.7E+00**	1.3E+05	1.0E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,086	4.0E+03	2.1E-02	1.6E+03	5.3E-02
118-H-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.3E-04	9.2E+02	3.2E-04
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,049	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
118-H-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,814	1.3E+04	4.5E-01	1.1E+05	5.2E-02
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	3.5E-05	8.1E+02	2.7E-04
118-H-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,954	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,171	No Value	--	1.3E+06	1.4E-04
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	5.0E+04	3.1E-01	3.6E+04	4.4E-01
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	266,309	2.2E+05	**1.2E+00**	5.8E+06	4.6E-02
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,014	1.0E+02	1.4E-01	1.9E+03	7.3E-03
118-H-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,309	2.0E+03	1.5E-01	1.4E+04	2.2E-02
118-H-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,619	3.0E+04	3.9E-01	3.3E+04	3.6E-01
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	0,013	No Value	--	No Value	--
118-H-2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.2E-04	--	7.8E-04
118-H-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,689	5.0E+03	3.4E-01	7.9E+05	2.2E-03
118-H-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.0E-05	6.4E+03	8.1E-05
118-H-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0,000	2.7E+04	1.2E-06	4.4E+03	7.3E-06
118-H-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.6E-05	5.2E+03	1.1E-04
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	41,613	2.0E+03	**2.1E+01**	3.1E+04	**1.3E+00**
118-H-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	34,224	5.0E+04	6.8E-01	6.8E+04	5.1E-01
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	0,743	5.0E+03	1.5E-01	6.0E+03	1.2E-01
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,055	4.0E+04	1.4E-03	1.5E+03	3.8E-02
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	1.0E+04	**1.6E+00**	1.9E+05	8.4E-02
118-H-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	83,791	3.3E+05	2.5E-01	1.3E+06	6.3E-02
118-H-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,321	1.0E+04	3.2E-02	1.4E+04	2.3E-02
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	3,104	5.0E+02	**6.2E+00**	1.3E+05	2.3E-02
118-H-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,153	4.0E+03	3.8E-02	1.6E+03	9.4E-02
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,218	4.0E+02	**3.3E+01**	3.8E+04	3.5E-01
118-H-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,931	1.3E+04	5.3E-01	1.1E+05	6.2E-02
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	5.0E+04	4.7E-01	1.1E+05	2.2E-01
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,080	No Value	--	1.3E+06	6.4E-05
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	5.0E+04	**1.2E+00**	3.6E+04	**1.6E+00**
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	345,494	2.2E+05	**1.6E+00**	5.8E+06	6.0E-02
118-H-3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	0,011	1.0E+02	1.1E-01	1.9E+03	5.9E-03
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	2.0E+03	7.1E-01	1.4E+04	1.0E-01
118-H-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	14,747	3.0E+04	4.9E-01	3.3E+04	4.5E-01
118-H-3_Shallow_1	Rad	Rads SOF	---	pCi/g	--	--	5.5E-05	--	2.4E-04
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	0,417	2.0E+03	2.1E-01	5.0E+04	8.4E-03
118-H-3_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,864	5.0E+03	3.7E-01	7.9E+05	2.4E-03
118-H-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.3E-05	6.4E+03	1.1E-04
118-H-3_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0,000	2.7E+04	1.2E-06	4.4E+03	7.6E-06
118-H-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.0E-05	5.2E+03	1.2E-04
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	45,491	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	5.0E+04	**2.7E+00**	6.8E+04	**2.0E+00**
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,009	4.0E+04	2.4E-04	1.5E+03	6.4E-03
118-H-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	1.0E+04	3.0E-01	1.9E+05	1.6E-02
118-H-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	73,070	3.3E+05	2.2E-01	1.3E+06	5.5E-02
118-H-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,261	1.0E+04	2.6E-02	1.4E+04	1.9E-02
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,578	5.0E+02	**5.2E+00**	1.3E+05	1.9E-02
118-H-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,097	4.0E+03	2.4E-02	1.6E+03	5.9E-02
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,622	4.0E+02	**2.9E+01**	3.8E+04	3.1E-01
118-H-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,141	1.3E+04	4.7E-01	1.1E+05	5.5E-02
118-H-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,147	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,400	No Value	--	1.3E+06	3.2E-04
118-H-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,789	5.0E+04	1.4E-01	3.6E+04	1.9E-01
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	300,387	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	0,015	1.0E+02	1.5E-01	1.9E+03	7.9E-03
118-H-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,280	2.0E+03	1.4E-01	1.4E+04	2.0E-02
118-H-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,769	3.0E+04	3.6E-01	3.3E+04	3.3E-01
118-H-3_Shallow_2	Rad	Rads SOF	---	pCi/g	--	--	5.3E-05	--	2.2E-04
118-H-3_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,910	5.0E+03	3.8E-01	7.9E+05	2.4E-03
118-H-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.2E-05	6.4E+03	9.5E-05
118-H-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.1E-05	5.2E+03	1.3E-04
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,329	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	38,757	5.0E+04	7.8E-01	6.8E+04	5.7E-01
118-H-3_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	1.0E+04	4.8E-01	1.9E+05	2.5E-02
118-H-3_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	56,700	3.3E+05	1.7E-01	1.3E+06	4.3E-02
118-H-3_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,211	1.0E+04	2.1E-02	1.4E+04	1.5E-02
118-H-3_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	2,630	5.0E+02	**5.3E+00**	1.3E+05	2.0E-02
118-H-3_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,081	4.0E+03	2.0E-02	1.6E+03	5.0E-02
118-H-3_Shallow_Focusec	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.0E-04	9.2E+02	2.5E-04
118-H-3_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	9,110	4.0E+02	**2.3E+01**	3.8E+04	2.4E-01
118-H-3_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	5,690	1.3E+04	4.4E-01	1.1E+05	5.1E-02
118-H-3_Shallow_Focusec	Rad	Cobalt-60	10198-40-0	pCi/g	0,001	6.1E+03	8.6E-05	8.1E+02	6.5E-04
118-H-3_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	15,100	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-H-3_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	11,600	5.0E+04	2.3E-01	3.6E+04	3.3E-01
118-H-3_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	255,000	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
118-H-3_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,363	2.0E+03	1.8E-01	1.4E+04	2.6E-02
118-H-3_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	8,550	3.0E+04	2.9E-01	3.3E+04	2.6E-01
118-H-3_Shallow_Focusec	Rad	Nickel-63	13981-37-8	pCi/g	0,009	No Value	--	No Value	--
118-H-3_Shallow_Focusec	Rad	Rads SOF	---	pCi/g	--	--	2.7E-04	--	1.3E-03
118-H-3_Shallow_Focusec	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,819	5.0E+03	5.6E-01	7.9E+05	3.6E-03
118-H-3_Shallow_Focusec	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	2.1E-05	6.4E+03	1.7E-04
118-H-3_Shallow_Focusec	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	6.0E-05	5.2E+03	1.8E-04
118-H-3_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	48,300	2.0E+03	**2.4E+01**	3.1E+04	**1.6E+00**
118-H-3_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	36,900	5.0E+04	7.4E-01	6.8E+04	5.4E-01
118-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,442	1.0E+04	3.4E-01	1.9E+05	1.8E-02
118-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,445	3.3E+05	2.0E-01	1.3E+06	5.0E-02
118-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,228	1.0E+04	2.3E-02	1.4E+04	1.6E-02
118-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,534	5.0E+02	**3.1E+00**	1.3E+05	1.2E-02
118-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,132	4.0E+03	3.3E-02	1.6E+03	8.1E-02
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,001	2.2E+03	4.8E-04	9.2E+02	1.2E-03
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,715	4.0E+02	**2.9E+01**	3.8E+04	3.1E-01
118-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,894	1.3E+04	4.5E-01	1.1E+05	5.3E-02
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0,000	6.1E+03	1.7E-05	8.1E+02	1.3E-04
118-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,054	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,090	No Value	--	1.3E+06	7.2E-05
118-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,065	5.0E+04	1.8E-01	3.6E+04	2.6E-01
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,088	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,022	1.0E+02	2.2E-01	1.9E+03	1.2E-02
118-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,437	2.0E+03	2.2E-01	1.4E+04	3.1E-02
118-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,015	3.0E+04	3.7E-01	3.3E+04	3.4E-01
118-H-4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	8.5E-04	--	1.5E-02
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,001	3.6E+03	3.5E-04	9.1E+01	1.4E-02
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,964	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,843	5.0E+04	7.8E-01	6.8E+04	5.7E-01
118-H-4_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	1.0E+04	2.1E-01	1.9E+05	1.1E-02
118-H-4_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	46,300	3.3E+05	1.4E-01	1.3E+06	3.5E-02
118-H-4_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,148	1.0E+04	1.5E-02	1.4E+04	1.1E-02
118-H-4_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,440	5.0E+02	**2.9E+00**	1.3E+05	1.1E-02
118-H-4_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,113	4.0E+03	2.8E-02	1.6E+03	6.9E-02
118-H-4_Shallow_Focusec	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	1.2E-04	9.2E+02	2.8E-04
118-H-4_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	9,900	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
118-H-4_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	4,520	1.3E+04	3.5E-01	1.1E+05	4.1E-02
118-H-4_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	12,600	5.0E+04	2.5E-01	1.1E+05	1.2E-01
118-H-4_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	4,330	5.0E+04	8.7E-02	3.6E+04	1.2E-01
118-H-4_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	222,000	2.2E+05	**1.0E+00**	5.8E+06	3.8E-02
118-H-4_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,424	2.0E+03	2.1E-01	1.4E+04	3.0E-02
118-H-4_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	8,730	3.0E+04	2.9E-01	3.3E+04	2.7E-01
118-H-4_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	39,000	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
118-H-4_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	40,300	5.0E+04	8.1E-01	6.8E+04	5.9E-01
118-H-4_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	3,913	1.0E+04	3.9E-01	1.9E+05	2.1E-02
118-H-4_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	63,087	3.3E+05	1.9E-01	1.3E+06	4.8E-02
118-H-4_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	0,176	1.0E+04	1.8E-02	1.4E+04	1.3E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	2,987	5.0E+02	**6.0E+00**	1.3E+05	2.3E-02
118-H-4_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	0,170	4.0E+03	4.2E-02	1.6E+03	1.0E-01
118-H-4_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	8.9E-05	9.2E+02	2.1E-04
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	9,780	4.0E+02	**2.4E+01**	3.8E+04	2.6E-01
118-H-4_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	6,100	1.3E+04	4.7E-01	1.1E+05	5.5E-02
118-H-4_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	14,864	5.0E+04	3.0E-01	1.1E+05	1.4E-01
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,150	No Value	--	1.3E+06	1.2E-04
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	5.0E+04	5.6E-01	3.6E+04	7.9E-01
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	258,296	2.2E+05	**1.2E+00**	5.8E+06	4.5E-02
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	0,482	2.0E+03	2.4E-01	1.4E+04	3.5E-02
118-H-4_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	9,598	3.0E+04	3.2E-01	3.3E+04	3.0E-01
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	48,115	2.0E+03	**2.4E+01**	3.1E+04	**1.6E+00**
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	5.0E+04	**1.5E+00**	6.8E+04	**1.1E+00**
118-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,597	1.0E+04	4.6E-01	1.9E+05	2.4E-02
118-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,388	3.3E+05	1.9E-01	1.3E+06	4.6E-02
118-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,232	1.0E+04	2.3E-02	1.4E+04	1.7E-02
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	5.0E+02	**1.3E+01**	1.3E+05	4.7E-02
118-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,057	4.0E+03	1.4E-02	1.6E+03	3.5E-02
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	0,003	6.1E+04	4.6E-05	3.2E+01	8.7E-02
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,718	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
118-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,765	1.3E+04	4.4E-01	1.1E+05	5.2E-02
118-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,038	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,369	No Value	--	1.3E+06	3.0E-04
118-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,128	5.0E+04	2.0E-01	3.6E+04	2.9E-01
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	276,172	2.2E+05	**1.3E+00**	5.8E+06	4.8E-02
118-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,329	2.0E+03	1.7E-01	1.4E+04	2.4E-02
118-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,970	3.0E+04	3.3E-01	3.3E+04	3.1E-01
118-H-5_Shallow	Rad	Rads SOF	---	pCi/g	--	--	2.0E-04	--	9.2E-02
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,000	3.6E+03	1.0E-04	9.1E+01	4.0E-03
118-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,871	5.0E+03	3.7E-01	7.9E+05	2.4E-03
118-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.3E-05	6.4E+03	1.1E-04
118-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.0E-05	5.2E+03	1.2E-04
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,149	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
118-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,296	5.0E+04	7.3E-01	6.8E+04	5.4E-01
118-H-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,490	1.0E+04	4.5E-01	1.9E+05	2.4E-02
118-H-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,100	3.3E+05	1.4E-01	1.3E+06	3.5E-02
118-H-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	0,197	1.0E+04	2.0E-02	1.4E+04	1.4E-02
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,290	5.0E+02	**2.6E+00**	1.3E+05	9.7E-03
118-H-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	0,047	4.0E+03	1.2E-02	1.6E+03	2.9E-02
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,500	4.0E+02	**2.6E+01**	3.8E+04	2.8E-01
118-H-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,490	1.3E+04	4.2E-01	1.1E+05	4.9E-02
118-H-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	5.0E+04	2.7E-01	1.1E+05	1.3E-01
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,280	No Value	--	1.3E+06	2.3E-04
118-H-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,240	5.0E+04	1.9E-01	3.6E+04	2.6E-01
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	257,000	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
118-H-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	0,277	2.0E+03	1.4E-01	1.4E+04	2.0E-02
118-H-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	3.0E+04	3.5E-01	3.3E+04	3.3E-01
118-H-5_Shallow_Focused	Rad	Rads SOF	---	pCi/g	--	--	6.7E-05	--	3.1E-04
118-H-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,105	5.0E+03	4.2E-01	7.9E+05	2.7E-03
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	2.2E-05	6.4E+03	1.8E-04
118-H-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.5E-05	5.2E+03	1.4E-04
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,400	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
118-H-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,900	5.0E+04	6.8E-01	6.8E+04	5.0E-01
118-H-6:4_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	3,176	1.0E+04	3.2E-01	1.9E+05	1.7E-02
118-H-6:4_Overburder	non-Rad	Barium	7440-39-3	ug/kg	57,934	3.3E+05	1.8E-01	1.3E+06	4.4E-02
118-H-6:4_Overburder	non-Rad	Beryllium	7440-41-7	ug/kg	0,167	1.0E+04	1.7E-02	1.4E+04	1.2E-02
118-H-6:4_Overburder	non-Rad	Boron	7440-42-8	ug/kg	0,809	5.0E+02	**1.6E+00**	1.3E+05	6.1E-03
118-H-6:4_Overburder	non-Rad	Cadmium	7440-43-9	ug/kg	0,086	4.0E+03	2.2E-02	1.6E+03	5.3E-02
118-H-6:4_Overburder	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	8.1E-05	9.2E+02	1.9E-04
118-H-6:4_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	9,710	4.0E+02	**2.4E+01**	3.8E+04	2.5E-01
118-H-6:4_Overburder	non-Rad	Cobalt	7440-48-4	ug/kg	6,242	1.3E+04	4.8E-01	1.1E+05	5.6E-02
118-H-6:4_Overburder	non-Rad	Copper	7440-50-8	ug/kg	13,371	5.0E+04	2.7E-01	1.1E+05	1.3E-01
118-H-6:4_Overburder	Rad	Europium-152	14683-23-9	pCi/g	0,001	1.5E+04	6.4E-05	1.7E+03	5.4E-04
118-H-6:4_Overburder	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,127	No Value	--	1.3E+06	1.0E-04
118-H-6:4_Overburder	non-Rad	Lead	7439-92-1	ug/kg	4,138	5.0E+04	8.3E-02	3.6E+04	1.2E-01
118-H-6:4_Overburder	non-Rad	Manganese	7439-96-5	ug/kg	265,613	2.2E+05	**1.2E+00**	5.8E+06	4.6E-02
118-H-6:4_Overburder	non-Rad	Mercury	7439-97-6	ug/kg	0,024	1.0E+02	2.4E-01	1.9E+03	1.3E-02
118-H-6:4_Overburder	non-Rad	Molybdenum	7439-98-7	ug/kg	0,327	2.0E+03	1.6E-01	1.4E+04	2.3E-02
118-H-6:4_Overburder	Rad	Neptunium-237	13994-20-2	pCi/g	0,000	No Value	--	No Value	--
118-H-6:4_Overburder	non-Rad	Nickel	7440-02-0	ug/kg	10,985	3.0E+04	3.7E-01	3.3E+04	3.4E-01
118-H-6:4_Overburder	Rad	Rads SOF	---	pCi/g	--	--	3.2E-04	--	6.2E-03
118-H-6:4_Overburder	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,000	3.6E+03	1.3E-04	9.1E+01	5.3E-03
118-H-6:4_Overburder	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,569	5.0E+03	3.1E-01	7.9E+05	2.0E-03
118-H-6:4_Overburder	Rad	Uranium-233/234	U-233/234	pCi/g	0,000	5.2E+04	9.1E-06	6.4E+03	7.4E-05
118-H-6:4_Overburder	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.4E-05	5.2E+03	1.0E-04
118-H-6:4_Overburder	non-Rad	Vanadium	7440-62-2	ug/kg	45,939	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-6:4_Overburder	non-Rad	Zinc	7440-66-6	ug/kg	38,240	5.0E+04	7.7E-01	6.8E+04	5.6E-01
118-H-6:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,849	1.0E+04	3.9E-01	1.9E+05	2.0E-02
118-H-6:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,215	3.3E+05	1.9E-01	1.3E+06	4.6E-02
118-H-6:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,188	1.0E+04	1.9E-02	1.4E+04	1.4E-02
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	0,633	5.0E+02	**1.3E+00**	1.3E+05	4.8E-03
118-H-6:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,100	4.0E+03	2.5E-02	1.6E+03	6.1E-02
118-H-6:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	5.4E-05	9.2E+02	1.3E-04
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,218	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
118-H-6:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,711	1.3E+04	5.2E-01	1.1E+05	6.0E-02
118-H-6:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,414	5.0E+04	3.9E-01	1.1E+05	1.8E-01
118-H-6:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,409	5.0E+04	1.7E-01	3.6E+04	2.4E-01
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	251,118	2.2E+05	**1.1E+00**	5.8E+06	4.3E-02
118-H-6:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,442	2.0E+03	2.2E-01	1.4E+04	3.2E-02
118-H-6:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,521	3.0E+04	3.8E-01	3.3E+04	3.5E-01
118-H-6:4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.0E-04	--	3.3E-04
118-H-6:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,653	5.0E+03	3.3E-01	7.9E+05	2.1E-03
118-H-6:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.1E-05	6.4E+03	9.0E-05
118-H-6:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.5E-05	5.2E+03	1.1E-04
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,568	2.0E+03	**2.4E+01**	3.1E+04	**1.6E+00**
118-H-6:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,342	5.0E+04	8.1E-01	6.8E+04	6.0E-01
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	0,006	2.0E+04	2.9E-04	1.1E+06	5.3E-06
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	0,003	2.9E+04	9.8E-05	6.8E+05	4.2E-06
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	0,664	5.0E+03	1.3E-01	6.0E+03	1.1E-01
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,010	4.0E+04	2.6E-04	1.5E+03	6.9E-03
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,005	4.0E+04	1.4E-04	1.5E+03	3.7E-03
118-H-6:5_Shallow_1	non-Rad	Aroclors HI	---	ug/kg	--	--	3.9E-04	--	1.1E-02
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	1.0E+04	**4.0E+00**	1.9E+05	2.1E-01
118-H-6:5_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	87,997	3.3E+05	2.7E-01	1.3E+06	6.7E-02
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,023	1.8E+04	1.3E-03	6.4E+04	3.6E-04
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,024	1.8E+04	1.3E-03	7.6E+04	3.2E-04
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,026	1.8E+04	1.5E-03	3.9E+04	6.7E-04
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,013	1.8E+04	7.2E-04	3.9E+04	3.3E-04
118-H-6:5_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,319	1.0E+04	3.2E-02	1.4E+04	2.3E-02
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,401	5.0E+02	**4.8E+00**	1.3E+05	1.8E-02
118-H-6:5_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,075	4.0E+03	1.9E-02	1.6E+03	4.6E-02
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	0,007	6.1E+04	1.2E-04	3.2E+01	2.3E-01
118-H-6:5_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	8.0E-05	9.2E+02	1.9E-04
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,672	4.0E+02	**3.4E+01**	3.8E+04	3.6E-01
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	0,019	1.8E+04	1.1E-03	4.5E+04	4.4E-04
118-H-6:5_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,195	1.3E+04	5.5E-01	1.1E+05	6.5E-02
118-H-6:5_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,954	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,004	1.8E+04	2.3E-04	4.4E+04	9.5E-05
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	0,078	1.8E+04	4.3E-03	8.4E+05	9.2E-05
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	0,003	2.9E+04	9.3E-05	1.8E+05	1.5E-05
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,080	No Value	--	1.3E+06	6.4E-05
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,021	1.8E+04	1.2E-03	3.6E+04	6.0E-04
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	5.0E+04	**3.4E+00**	3.6E+04	**4.8E+00**
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	338,381	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	0,485	2.0E+03	2.4E-01	1.4E+04	3.5E-02
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	0,016	2.9E+04	5.5E-04	1.0E+05	1.6E-04
118-H-6:5_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,228	3.0E+04	4.1E-01	3.3E+04	3.8E-01
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	0,066	1.8E+04	3.6E-03	6.0E+05	1.1E-04
118-H-6:5_Shallow_1	Rad	Rads SOF	---	pCi/g	--	--	2.7E-04	--	2.3E-01
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0,000	2.2E+04	1.7E-05	5.4E+03	7.1E-05
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426	No Value	--	No Value	--
118-H-6:5_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,998	5.0E+03	4.0E-01	7.9E+05	2.5E-03
118-H-6:5_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.3E-05	6.4E+03	1.1E-04
118-H-6:5_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.3E-05	5.2E+03	1.3E-04
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
118-H-6:5_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	46,713	5.0E+04	9.3E-01	6.8E+04	6.9E-01
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	0,024	2.0E+04	1.2E-03	1.1E+06	2.2E-05
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	0,010	2.9E+04	3.3E-04	6.8E+05	1.4E-05
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	0,464	5.0E+03	9.3E-02	6.0E+03	7.8E-02
118-H-6:5_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	6,824	1.0E+04	6.8E-01	1.9E+05	3.6E-02
118-H-6:5_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	111,681	3.3E+05	3.4E-01	1.3E+06	8.4E-02
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,098	1.8E+04	5.5E-03	6.4E+04	1.5E-03
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,069	1.8E+04	3.8E-03	7.6E+04	9.0E-04
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,204	1.8E+04	1.1E-02	3.9E+04	5.2E-03
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,062	1.8E+04	3.4E-03	3.9E+04	1.6E-03
118-H-6:5_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,239	1.0E+04	2.4E-02	1.4E+04	1.7E-02
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	5.0E+02	**2.4E+01**	1.3E+05	9.2E-02
118-H-6:5_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,088	4.0E+03	2.2E-02	1.6E+03	5.4E-02
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	2.3E-05	3.2E+01	4.5E-02
118-H-6:5_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	4.5E-05	9.2E+02	1.1E-04
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,953	4.0E+02	**3.0E+01**	3.8E+04	3.1E-01
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	0,121	1.8E+04	6.7E-03	4.5E+04	2.7E-03
118-H-6:5_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,641	1.3E+04	5.1E-01	1.1E+05	6.0E-02
118-H-6:5_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	15,897	5.0E+04	3.2E-01	1.1E+05	1.5E-01
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,007	1.8E+04	4.1E-04	4.4E+04	1.7E-04
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	0,707	1.8E+04	3.9E-02	8.4E+05	8.4E-04
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	0,006	2.9E+04	1.9E-04	1.8E+05	3.2E-05
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,060	No Value	--	1.3E+06	4.8E-05
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,041	1.8E+04	2.3E-03	3.6E+04	1.2E-03
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	5.0E+04	2.8E-01	3.6E+04	3.9E-01
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	310,415	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	0,167	1.0E+02	**1.7E+00**	1.9E+03	8.9E-02
118-H-6:5_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,467	2.0E+03	2.3E-01	1.4E+04	3.4E-02
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	0,044	2.9E+04	1.5E-03	1.0E+05	4.4E-04
118-H-6:5_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,980	3.0E+04	3.7E-01	3.3E+04	3.4E-01
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	0,254	1.8E+04	1.4E-02	6.0E+05	4.2E-04
118-H-6:5_Shallow_2	Rad	Rads SOF	---	pCi/g	--	--	1.4E-04	--	6.1E-02
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0,000	2.2E+04	1.8E-05	5.4E+03	7.5E-05
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884	No Value	--	No Value	--
118-H-6:5_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,777	5.0E+03	3.6E-01	7.9E+05	2.3E-03
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0,007	1.7E+06	4.0E-06	4.2E+02	1.6E-02
118-H-6:5_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.2E-05	6.4E+03	9.4E-05
118-H-6:5_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.8E-05	5.2E+03	1.2E-04
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,432	2.0E+03	**2.7E+01**	3.1E+04	**1.7E+00**
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	0,001	No Value	--	8.3E+05	1.3E-06
118-H-6:5_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	44,927	5.0E+04	9.0E-01	6.8E+04	6.6E-01
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	0,005	No Value	--	1.7E+06	2.8E-06
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	0,003	2.0E+04	1.4E-04	1.1E+06	2.5E-06
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	0,002	2.9E+04	8.3E-05	6.8E+05	3.6E-06
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	0,505	5.0E+03	1.0E-01	6.0E+03	8.4E-02
118-H-6:5_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	4,522	1.0E+04	4.5E-01	1.9E+05	2.4E-02
118-H-6:5_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	62,837	3.3E+05	1.9E-01	1.3E+06	4.8E-02
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,005	1.8E+04	2.9E-04	6.4E+04	8.1E-05
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,005	1.8E+04	2.6E-04	7.6E+04	6.1E-05
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,005	1.8E+04	2.9E-04	3.9E+04	1.3E-04
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,003	1.8E+04	1.4E-04	3.9E+04	6.4E-05
118-H-6:5_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	0,211	1.0E+04	2.1E-02	1.4E+04	1.5E-02
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,892	5.0E+02	**3.8E+00**	1.3E+05	1.4E-02
118-H-6:5_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	0,097	4.0E+03	2.4E-02	1.6E+03	6.0E-02
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	1.6E-05	3.2E+01	3.1E-02
118-H-6:5_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	8.8E-05	9.2E+02	2.1E-04
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	10,827	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	0,003	1.8E+04	1.8E-04	4.5E+04	7.3E-05
118-H-6:5_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,132	1.3E+04	4.7E-01	1.1E+05	5.5E-02
118-H-6:5_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	13,821	5.0E+04	2.8E-01	1.1E+05	1.3E-01
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,001	1.8E+04	5.4E-05	4.4E+04	2.2E-05
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	0,009	1.8E+04	5.3E-04	8.4E+05	1.1E-05
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,006	1.8E+04	3.3E-04	3.6E+04	1.7E-04
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	5.0E+04	2.3E-01	3.6E+04	3.2E-01
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	281,265	2.2E+05	**1.3E+00**	5.8E+06	4.9E-02
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	0,004	No Value	--	1.7E+05	2.2E-05
118-H-6:5_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	0,374	2.0E+03	1.9E-01	1.4E+04	2.7E-02
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	0,042	2.9E+04	1.5E-03	1.0E+05	4.2E-04
118-H-6:5_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,882	3.0E+04	4.3E-01	3.3E+04	4.0E-01
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	0,010	1.8E+04	5.8E-04	6.0E+05	1.7E-05
118-H-6:5_Shallow_3	Rad	Rads SOF	---	pCi/g	--	--	1.7E-04	--	4.8E-02
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695	No Value	--	No Value	--
118-H-6:5_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,234	5.0E+03	4.5E-01	7.9E+05	2.8E-03
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	0,007	1.7E+06	4.2E-06	4.2E+02	1.7E-02
118-H-6:5_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.4E-05	6.4E+03	1.2E-04
118-H-6:5_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.8E-05	5.2E+03	1.5E-04
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,611	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
118-H-6:5_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,700	5.0E+04	8.7E-01	6.8E+04	6.5E-01
118-H-6:5_Shallow_Focusec	non-Rad	Acenaphthene	83-32-9	ug/kg	0,008	2.0E+04	4.1E-04	1.1E+06	7.5E-06
118-H-6:5_Shallow_Focusec	non-Rad	Anthracene	120-12-7	ug/kg	0,005	2.9E+04	1.7E-04	6.8E+05	7.2E-06
118-H-6:5_Shallow_Focusec	non-Rad	Antimony	7440-36-0	ug/kg	0,592	5.0E+03	1.2E-01	6.0E+03	9.9E-02
118-H-6:5_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	1.0E+04	**2.7E+00**	1.9E+05	1.4E-01
118-H-6:5_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	65,600	3.3E+05	2.0E-01	1.3E+06	5.0E-02
118-H-6:5_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,053	1.8E+04	2.9E-03	6.4E+04	8.2E-04
118-H-6:5_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,040	1.8E+04	2.2E-03	7.6E+04	5.2E-04
118-H-6:5_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,056	1.8E+04	3.1E-03	3.9E+04	1.4E-03
118-H-6:5_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,027	1.8E+04	1.5E-03	3.9E+04	6.8E-04
118-H-6:5_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0,251	1.0E+04	2.5E-02	1.4E+04	1.8E-02
118-H-6:5_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	1,710	5.0E+02	**3.4E+00**	1.3E+05	1.3E-02
118-H-6:5_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0,103	4.0E+03	2.6E-02	1.6E+03	6.3E-02
118-H-6:5_Shallow_Focusec	Rad	Carbon-14	14762-75-5	pCi/g	0,001	6.1E+04	2.0E-05	3.2E+01	3.8E-02
118-H-6:5_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	13,000	4.0E+02	**3.3E+01**	3.8E+04	3.4E-01
118-H-6:5_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0,047	1.8E+04	2.6E-03	4.5E+04	1.1E-03
118-H-6:5_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	6,700	1.3E+04	5.2E-01	1.1E+05	6.0E-02
118-H-6:5_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	34,500	5.0E+04	6.9E-01	1.1E+05	3.2E-01
118-H-6:5_Shallow_Focusec	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,007	1.8E+04	4.2E-04	4.4E+04	1.7E-04
118-H-6:5_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0,171	1.8E+04	9.5E-03	8.4E+05	2.0E-04
118-H-6:5_Shallow_Focusec	non-Rad	Fluorene	86-73-7	ug/kg	0,004	2.9E+04	1.3E-04	1.8E+05	2.1E-05
118-H-6:5_Shallow_Focusec	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,031	1.8E+04	1.7E-03	3.6E+04	8.7E-04
118-H-6:5_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	114,000	5.0E+04	**2.3E+00**	3.6E+04	**3.2E+00**
118-H-6:5_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	311,000	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
118-H-6:5_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0,439	2.0E+03	2.2E-01	1.4E+04	3.1E-02
118-H-6:5_Shallow_Focusec	non-Rad	Naphthalene	91-20-3	ug/kg	0,010	2.9E+04	3.5E-04	1.0E+05	1.0E-04
118-H-6:5_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	12,600	3.0E+04	4.2E-01	3.3E+04	3.9E-01
118-H-6:5_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0,149	1.8E+04	8.3E-03	6.0E+05	2.5E-04
118-H-6:5_Shallow_Focusec	Rad	Rads SOF	---	pCi/g	--	--	8.4E-05	--	4.8E-02
118-H-6:5_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000	2.0E+05	6.0E-02	3.6E+08	3.4E-05
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	No Value	--	No Value	--
118-H-6:5_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	0,470	No Value	--	No Value	--

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600	No Value	--	No Value	--
118-H-6:5_Shallow_Focusec	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,054	5.0E+03	4.1E-01	7.9E+05	2.6E-03
118-H-6:5_Shallow_Focusec	Rad	Tritium	10028-17-8	pCi/g	0,004	1.7E+06	2.4E-06	4.2E+02	9.7E-03
118-H-6:5_Shallow_Focusec	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.8E-05	6.4E+03	1.5E-04
118-H-6:5_Shallow_Focusec	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	4.4E-05	5.2E+03	1.3E-04
118-H-6:5_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	49,400	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
118-H-6:5_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	46,400	5.0E+04	9.3E-01	6.8E+04	6.8E-01
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,000	No Value	--	4.0E+02	7.3E-04
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	0,004	2.0E+04	2.2E-04	1.1E+06	4.0E-06
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	0,003	2.9E+04	1.1E-04	6.8E+05	4.6E-06
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,008	4.0E+04	2.0E-04	1.5E+03	5.5E-03
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	1.0E+04	**4.1E+00**	1.9E+05	2.1E-01
128-H-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	85,541	3.3E+05	2.6E-01	1.3E+06	6.5E-02
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,030	1.8E+04	1.7E-03	6.4E+04	4.8E-04
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,058	1.8E+04	3.2E-03	7.6E+04	7.6E-04
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,039	1.8E+04	2.2E-03	3.9E+04	9.9E-04
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,019	1.8E+04	1.1E-03	3.9E+04	4.9E-04
128-H-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	0,274	1.0E+04	2.7E-02	1.4E+04	2.0E-02
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,144	1.0E+05	1.4E-03	4.5E+04	3.2E-03
128-H-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,799	5.0E+02	**5.6E+00**	1.3E+05	2.1E-02
128-H-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	0,177	4.0E+03	4.4E-02	1.6E+03	1.1E-01
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,085	4.0E+02	**3.3E+01**	3.8E+04	3.4E-01
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	0,029	1.8E+04	1.6E-03	4.5E+04	6.5E-04
128-H-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,539	1.3E+04	5.0E-01	1.1E+05	5.9E-02
128-H-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,458	5.0E+04	2.7E-01	1.1E+05	1.3E-01
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,007	1.8E+04	3.7E-04	4.4E+04	1.5E-04
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	0,001	No Value	--	7.1E+02	1.8E-03
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	0,098	1.8E+04	5.5E-03	8.4E+05	1.2E-04
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	0,003	2.9E+04	9.0E-05	1.8E+05	1.5E-05
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,039	1.8E+04	2.2E-03	3.6E+04	1.1E-03
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	5.0E+04	**5.1E+00**	3.6E+04	**7.1E+00**
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,886	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	0,020	1.0E+02	2.0E-01	1.9E+03	1.1E-02
128-H-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	0,391	2.0E+03	2.0E-01	1.4E+04	2.8E-02
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	0,005	2.9E+04	1.9E-04	1.0E+05	5.5E-05
128-H-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,022	3.0E+04	3.7E-01	3.3E+04	3.4E-01
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	0,095	1.8E+04	5.3E-03	6.0E+05	1.6E-04
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400	2.0E+05	4.2E-02	3.6E+08	2.4E-05
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	No Value	--	No Value	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451	No Value	--	No Value	--
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	47,044	2.0E+03	**2.4E+01**	3.1E+04	**1.5E+00**
128-H-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	49,389	5.0E+04	9.9E-01	6.8E+04	7.3E-01
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,003	No Value	--	4.0E+02	7.3E-03
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	0,026	2.0E+04	1.3E-03	1.1E+06	2.4E-05
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	0,004	2.9E+04	1.2E-04	6.8E+05	5.2E-06
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	0,239	5.0E+03	4.8E-02	6.0E+03	4.0E-02
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,003	4.0E+04	8.5E-05	1.5E+03	2.3E-03
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	1.0E+04	**1.1E+00**	1.9E+05	5.6E-02
128-H-1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	102,210	3.3E+05	3.1E-01	1.3E+06	7.7E-02
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,050	1.8E+04	2.8E-03	6.4E+04	7.8E-04
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,060	1.8E+04	3.3E-03	7.6E+04	7.8E-04
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,059	1.8E+04	3.3E-03	3.9E+04	1.5E-03
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,029	1.8E+04	1.6E-03	3.9E+04	7.3E-04
128-H-1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	0,297	1.0E+04	3.0E-02	1.4E+04	2.1E-02
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	5.0E+02	**9.8E+00**	1.3E+05	3.7E-02
128-H-1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	0,152	4.0E+03	3.8E-02	1.6E+03	9.3E-02
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,634	4.0E+02	**3.4E+01**	3.8E+04	3.6E-01
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	0,049	1.8E+04	2.8E-03	4.5E+04	1.1E-03
128-H-1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,720	1.3E+04	5.2E-01	1.1E+05	6.0E-02
128-H-1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,071	5.0E+04	2.8E-01	1.1E+05	1.3E-01
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,008	1.8E+04	4.2E-04	4.4E+04	1.7E-04
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	0,154	1.8E+04	8.5E-03	8.4E+05	1.8E-04
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	0,004	2.9E+04	1.5E-04	1.8E+05	2.5E-05
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,170	No Value	--	1.3E+06	1.4E-04
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,041	1.8E+04	2.3E-03	3.6E+04	1.2E-03
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	5.0E+04	**1.3E+00**	3.6E+04	**1.8E+00**
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	298,334	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	0,030	1.0E+02	3.0E-01	1.9E+03	1.6E-02
128-H-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	0,347	2.0E+03	1.7E-01	1.4E+04	2.5E-02
128-H-1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,942	3.0E+04	4.3E-01	3.3E+04	4.0E-01
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	0,102	1.8E+04	5.7E-03	6.0E+05	1.7E-04
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742	2.0E+05	4.4E-02	3.6E+08	2.5E-05
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397	No Value	--	No Value	--
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,141	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
128-H-1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,831	5.0E+04	8.8E-01	6.8E+04	6.5E-01
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,002	No Value	--	4.0E+02	6.2E-03
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	0,015	2.0E+04	7.6E-04	1.1E+06	1.4E-05
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	0,001	2.9E+04	4.5E-05	6.8E+05	1.9E-06
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,009	4.0E+04	2.4E-04	1.5E+03	6.4E-03
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,019	4.0E+04	4.8E-04	1.5E+03	1.3E-02
128-H-1_Shallow_4	non-Rad	Aroclors HI	---	ug/kg	--	--	7.2E-04	--	1.9E-02
128-H-1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,365	1.0E+04	5.4E-01	1.9E+05	2.8E-02
128-H-1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	95,142	3.3E+05	2.9E-01	1.3E+06	7.2E-02
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,010	1.8E+04	5.5E-04	6.4E+04	1.5E-04
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,011	1.8E+04	5.9E-04	7.6E+04	1.4E-04
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,011	1.8E+04	6.3E-04	3.9E+04	2.9E-04
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,004	1.8E+04	2.4E-04	3.9E+04	1.1E-04
128-H-1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	0,309	1.0E+04	3.1E-02	1.4E+04	2.2E-02
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	5.0E+02	**8.9E+00**	1.3E+05	3.4E-02
128-H-1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	0,163	4.0E+03	4.1E-02	1.6E+03	1.0E-01
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,369	4.0E+02	**3.6E+01**	3.8E+04	3.8E-01
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	0,011	1.8E+04	6.0E-04	4.5E+04	2.4E-04
128-H-1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	6,783	1.3E+04	5.2E-01	1.1E+05	6.1E-02
128-H-1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	13,865	5.0E+04	2.8E-01	1.1E+05	1.3E-01
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,003	1.8E+04	1.4E-04	4.4E+04	5.9E-05
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	0,028	1.8E+04	1.5E-03	8.4E+05	3.3E-05
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	0,004	2.9E+04	1.5E-04	1.8E+05	2.4E-05
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,156	No Value	--	1.3E+06	1.3E-04
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,005	1.8E+04	3.0E-04	3.6E+04	1.5E-04
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	5.0E+04	8.9E-01	3.6E+04	**1.3E+00**
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	319,234	2.2E+05	**1.5E+00**	5.8E+06	5.5E-02
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	1.0E+02	**1.0E+01**	1.9E+03	5.5E-01
128-H-1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	0,414	2.0E+03	2.1E-01	1.4E+04	3.0E-02
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	0,007	2.9E+04	2.3E-04	1.0E+05	6.6E-05
128-H-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	11,655	3.0E+04	3.9E-01	3.3E+04	3.6E-01
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	0,018	1.8E+04	1.0E-03	6.0E+05	3.0E-05
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082	2.0E+05	5.0E-02	3.6E+08	2.8E-05
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270	No Value	--	No Value	--
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	51,297	2.0E+03	**2.6E+01**	3.1E+04	**1.7E+00**
128-H-1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	40,798	5.0E+04	8.2E-01	6.8E+04	6.0E-01
128-H-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,785	1.0E+04	3.8E-01	1.9E+05	2.0E-02
128-H-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	66,201	3.3E+05	2.0E-01	1.3E+06	5.0E-02
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,012	1.8E+04	6.7E-04	6.4E+04	1.9E-04
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,013	1.8E+04	7.2E-04	3.9E+04	3.3E-04
128-H-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	0,122	1.0E+04	1.2E-02	1.4E+04	8.7E-03
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,075	1.0E+05	7.5E-04	4.5E+04	1.6E-03
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,534	5.0E+02	**3.1E+00**	1.3E+05	1.2E-02
128-H-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	0,074	4.0E+03	1.8E-02	1.6E+03	4.5E-02
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,741	4.0E+02	**3.2E+01**	3.8E+04	3.3E-01

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	0.015	1.8E+04	8.3E-04	4.5E+04	3.4E-04
128-H-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	6,508	1.3E+04	5.0E-01	1.1E+05	5.8E-02
128-H-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,559	5.0E+04	3.3E-01	1.1E+05	1.6E-01
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	0.023	1.8E+04	1.3E-03	8.4E+05	2.7E-05
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0.917	No Value	--	1.3E+06	7.4E-04
128-H-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	6,674	5.0E+04	1.3E-01	3.6E+04	1.9E-01
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	270,578	2.2E+05	**1.2E+00**	5.8E+06	4.7E-02
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	0.023	1.0E+02	2.3E-01	1.9E+03	1.2E-02
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	0.490	2.0E+03	2.5E-01	1.4E+04	3.5E-02
128-H-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	11,527	3.0E+04	3.8E-01	3.3E+04	3.5E-01
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	0.030	1.8E+04	1.7E-03	6.0E+05	5.0E-05
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000	2.0E+05	8.0E-01	3.6E+08	4.5E-04
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	357,773	No Value	--	No Value	--
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	40,807	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
128-H-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	36,178	5.0E+04	7.2E-01	6.8E+04	5.3E-01
128-H-1_Staging pile area footprint_	non-Rad	Acenaphthene	83-32-9	ug/kg	0.048	2.0E+04	2.4E-03	1.1E+06	4.4E-05
128-H-1_Staging pile area footprint_	non-Rad	Anthracene	120-12-7	ug/kg	0.002	2.9E+04	8.4E-05	6.8E+05	3.6E-06
128-H-1_Staging pile area footprint_	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0.009	4.0E+04	2.2E-04	1.5E+03	5.9E-03
128-H-1_Staging pile area footprint_	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0.004	4.0E+04	9.3E-05	1.5E+03	2.5E-03
128-H-1_Staging pile area footprint_	non-Rad	Aroclors HI	---	ug/kg	--	--	3.1E-04	--	8.5E-03
128-H-1_Staging pile area footprint_	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	1.0E+04	**5.4E+00**	1.9E+05	2.9E-01
128-H-1_Staging pile area footprint_	non-Rad	Barium	7440-39-3	ug/kg	88,760	3.3E+05	2.7E-01	1.3E+06	6.7E-02
128-H-1_Staging pile area footprint_	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.012	1.8E+04	6.9E-04	6.4E+04	1.9E-04
128-H-1_Staging pile area footprint_	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.017	1.8E+04	9.2E-04	7.6E+04	2.2E-04
128-H-1_Staging pile area footprint_	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.014	1.8E+04	7.8E-04	3.9E+04	3.6E-04
128-H-1_Staging pile area footprint_	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.006	1.8E+04	3.5E-04	3.9E+04	1.6E-04
128-H-1_Staging pile area footprint_	non-Rad	Beryllium	7440-41-7	ug/kg	0.338	1.0E+04	3.4E-02	1.4E+04	2.4E-02
128-H-1_Staging pile area footprint_	non-Rad	Boron	7440-42-8	ug/kg	3,306	5.0E+02	**6.6E+00**	1.3E+05	2.5E-02
128-H-1_Staging pile area footprint_	non-Rad	Cadmium	7440-43-9	ug/kg	0.148	4.0E+03	3.7E-02	1.6E+03	9.1E-02
128-H-1_Staging pile area footprint_	non-Rad	Chromium	7440-47-3	ug/kg	15,220	4.0E+02	**3.8E+01**	3.8E+04	4.0E-01
128-H-1_Staging pile area footprint_	non-Rad	Chrysene	218-01-9	ug/kg	0.010	1.8E+04	5.8E-04	4.5E+04	2.3E-04
128-H-1_Staging pile area footprint_	non-Rad	Cobalt	7440-48-4	ug/kg	6,810	1.3E+04	5.2E-01	1.1E+05	6.1E-02
128-H-1_Staging pile area footprint_	non-Rad	Copper	7440-50-8	ug/kg	13,202	5.0E+04	2.6E-01	1.1E+05	1.2E-01
128-H-1_Staging pile area footprint_	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.003	1.8E+04	1.5E-04	4.4E+04	5.9E-05
128-H-1_Staging pile area footprint_	non-Rad	Fluoranthene	206-44-0	ug/kg	0.056	1.8E+04	3.1E-03	8.4E+05	6.7E-05
128-H-1_Staging pile area footprint_	non-Rad	Fluorene	86-73-7	ug/kg	0.012	2.9E+04	4.1E-04	1.8E+05	6.7E-05
128-H-1_Staging pile area footprint_	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0.013	1.8E+04	7.1E-04	3.6E+04	3.6E-04
128-H-1_Staging pile area footprint_	non-Rad	Lead	7439-92-1	ug/kg	124,843	5.0E+04	**2.5E+00**	3.6E+04	**3.5E+00**
128-H-1_Staging pile area footprint_	non-Rad	Manganese	7439-96-5	ug/kg	339,768	2.2E+05	**1.5E+00**	5.8E+06	5.9E-02
128-H-1_Staging pile area footprint_	non-Rad	Mercury	7439-97-6	ug/kg	0.067	1.0E+02	6.7E-01	1.9E+03	3.6E-02
128-H-1_Staging pile area footprint_	non-Rad	Molybdenum	7439-98-7	ug/kg	0.276	2.0E+03	1.4E-01	1.4E+04	2.0E-02
128-H-1_Staging pile area footprint_	non-Rad	Nickel	7440-02-0	ug/kg	12,076	3.0E+04	4.0E-01	3.3E+04	3.7E-01
128-H-1_Staging pile area footprint_	non-Rad	Pyrene	129-00-0	ug/kg	0.033	1.8E+04	1.8E-03	6.0E+05	5.5E-05
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047	No Value	--	No Value	--
128-H-1_Staging pile area footprint_	non-Rad	Vanadium	7440-62-2	ug/kg	46,690	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
128-H-1_Staging pile area footprint_	non-Rad	Zinc	7440-66-6	ug/kg	43,441	5.0E+04	8.7E-01	6.8E+04	6.4E-01
128-H-1_Staging pile area footprint_	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	1.0E+04	3.7E-01	1.9E+05	2.0E-02
128-H-1_Staging pile area footprint_	non-Rad	Barium	7440-39-3	ug/kg	89,946	3.3E+05	2.7E-01	1.3E+06	6.8E-02
128-H-1_Staging pile area footprint_	non-Rad	Beryllium	7440-41-7	ug/kg	0.272	1.0E+04	2.7E-02	1.4E+04	2.0E-02
128-H-1_Staging pile area footprint_	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.074	1.0E+05	7.4E-04	4.5E+04	1.6E-03
128-H-1_Staging pile area footprint_	non-Rad	Boron	7440-42-8	ug/kg	1,747	5.0E+02	**3.5E+00**	1.3E+05	1.3E-02
128-H-1_Staging pile area footprint_	non-Rad	Cadmium	7440-43-9	ug/kg	0.091	4.0E+03	2.3E-02	1.6E+03	5.6E-02
128-H-1_Staging pile area footprint_	non-Rad	Chromium	7440-47-3	ug/kg	14,174	4.0E+02	**3.5E+01**	3.8E+04	3.7E-01
128-H-1_Staging pile area footprint_	non-Rad	Cobalt	7440-48-4	ug/kg	7,326	1.3E+04	5.6E-01	1.1E+05	6.6E-02
128-H-1_Staging pile area footprint_	non-Rad	Copper	7440-50-8	ug/kg	14,851	5.0E+04	3.0E-01	1.1E+05	1.4E-01
128-H-1_Staging pile area footprint_	non-Rad	Diethylphthalate	84-66-2	ug/kg	0.035	1.0E+05	3.5E-04	No Value	--
128-H-1_Staging pile area footprint_	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0.233	No Value	--	1.3E+06	1.9E-04
128-H-1_Staging pile area footprint_	non-Rad	Lead	7439-92-1	ug/kg	5,852	5.0E+04	1.2E-01	3.6E+04	1.6E-01
128-H-1_Staging pile area footprint_	non-Rad	Manganese	7439-96-5	ug/kg	333,857	2.2E+05	**1.5E+00**	5.8E+06	5.8E-02
128-H-1_Staging pile area footprint_	non-Rad	Mercury	7439-97-6	ug/kg	0.007	1.0E+02	7.5E-02	1.9E+03	4.0E-03
128-H-1_Staging pile area footprint_	non-Rad	Nickel	7440-02-0	ug/kg	13,384	3.0E+04	4.5E-01	3.3E+04	4.1E-01
128-H-1_Staging pile area footprint_	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700	2.0E+05	4.4E-02	3.6E+08	2.4E-05
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,494	No Value	--	No Value	--
128-H-1_Staging pile area footprint_	non-Rad	Vanadium	7440-62-2	ug/kg	40,715	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
128-H-1_Staging pile area footprint_	non-Rad	Zinc	7440-66-6	ug/kg	40,935	5.0E+04	8.2E-01	6.8E+04	6.0E-01
128-H-2_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	3,500	1.0E+04	3.5E-01	1.9E+05	1.9E-02
128-H-2_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	82,600	3.3E+05	2.5E-01	1.3E+06	6.2E-02
128-H-2_Shallow_Focusec	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.130	1.0E+05	1.3E-03	4.5E+04	2.9E-03
128-H-2_Shallow_Focusec	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	0.022	No Value	--	No Value	--
128-H-2_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	13,800	4.0E+02	**3.5E+01**	3.8E+04	3.6E-01
128-H-2_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	16,300	5.0E+04	3.3E-01	1.1E+05	1.5E-01
128-H-2_Shallow_Focusec	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	0.036	No Value	--	No Value	--
128-H-2_Shallow_Focusec	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0.220	No Value	--	1.3E+06	1.8E-04
128-H-2_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	4,900	5.0E+04	9.8E-02	3.6E+04	1.4E-01
128-H-2_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	329,000	2.2E+05	**1.5E+00**	5.8E+06	5.7E-02
128-H-2_Shallow_Focusec	non-Rad	Methylene chloride	75-09-2	ug/kg	0.004	No Value	--	1.7E+05	2.4E-05
128-H-2_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	13,100	3.0E+04	4.4E-01	3.3E+04	4.0E-01
128-H-2_Shallow_Focusec	non-Rad	Selenium	7782-49-2	ug/kg	1,200	5.2E+02	**2.3E+00**	1.9E+03	6.3E-01
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100	No Value	--	No Value	--
128-H-2_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	58,500	2.0E+03	**2.9E+01**	3.1E+04	**1.9E+00**
128-H-2_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	42,000	5.0E+04	8.4E-01	6.8E+04	6.2E-01
128-H-3_Shallow_Focusec	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.002	No Value	--	4.0E+02	4.3E-03
128-H-3_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	1.0E+04	**1.1E+00**	1.9E+05	5.8E-02
128-H-3_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	81,800	3.3E+05	2.5E-01	1.3E+06	6.2E-02
128-H-3_Shallow_Focusec	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.018	1.8E+04	1.0E-03	6.4E+04	2.8E-04
128-H-3_Shallow_Focusec	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.037	1.8E+04	2.1E-03	7.6E+04	4.8E-04
128-H-3_Shallow_Focusec	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.028	1.8E+04	1.6E-03	3.9E+04	7.1E-04
128-H-3_Shallow_Focusec	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.027	1.8E+04	1.5E-03	3.9E+04	6.9E-04
128-H-3_Shallow_Focusec	non-Rad	Beryllium	7440-41-7	ug/kg	0.360	1.0E+04	3.6E-02	1.4E+04	2.6E-02
128-H-3_Shallow_Focusec	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.160	1.0E+05	1.6E-03	4.5E+04	3.5E-03
128-H-3_Shallow_Focusec	non-Rad	Boron	7440-42-8	ug/kg	3,700	5.0E+02	**7.4E+00**	1.3E+05	2.8E-02
128-H-3_Shallow_Focusec	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	0.028	No Value	--	No Value	--
128-H-3_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	16,900	4.0E+02	**4.2E+01**	3.8E+04	4.4E-01
128-H-3_Shallow_Focusec	non-Rad	Chrysene	218-01-9	ug/kg	0.020	1.8E+04	1.1E-03	4.5E+04	4.5E-04
128-H-3_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	1.3E+04	6.5E-01	1.1E+05	7.5E-02
128-H-3_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	19,800	5.0E+04	4.0E-01	1.1E+05	1.9E-01
128-H-3_Shallow_Focusec	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	0.120	No Value	--	No Value	--
128-H-3_Shallow_Focusec	non-Rad	Fluoranthene	206-44-0	ug/kg	0.024	1.8E+04	1.3E-03	8.4E+05	2.9E-05
128-H-3_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	94,100	5.0E+04	**1.9E+00**	3.6E+04	**2.6E+00**
128-H-3_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	360,000	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
128-H-3_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0.040	1.0E+02	4.0E-01	1.9E+03	2.1E-02
128-H-3_Shallow_Focusec	non-Rad	Methylene chloride	75-09-2	ug/kg	0.006	No Value	--	1.7E+05	3.6E-05
128-H-3_Shallow_Focusec	non-Rad	Molybdenum	7439-98-7	ug/kg	0.680	2.0E+03	3.4E-01	1.4E+04	4.9E-02
128-H-3_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	15,400	3.0E+04	5.1E-01	3.3E+04	4.7E-01
128-H-3_Shallow_Focusec	non-Rad	Pyrene	129-00-0	ug/kg	0.028	1.8E+04	1.6E-03	6.0E+05	4.7E-05
128-H-3_Shallow_Focusec	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000	2.0E+05	3.0E-02	3.6E+08	1.7E-05
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000	No Value	--	No Value	--
128-H-3_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	60,500	2.0E+03	**3.0E+01**	3.1E+04	**1.9E+00**
128-H-3_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	49,800	5.0E+04	1.0E+00	6.8E+04	7.4E-01
1607-H1_Overburder	non-Rad	Antimony	7440-36-0	ug/kg	0.420	5.0E+03	8.4E-02	6.0E+03	7.0E-02
1607-H1_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	1.0E+04	**1.4E+00**	1.9E+05	7.6E-02
1607-H1_Overburder	non-Rad	Barium	7440-39-3	ug/kg	79,109	3.3E+05	2.4E-01	1.3E+06	6.0E-02
1607-H1_Overburder	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.056	1.8E+04	3.1E-03	3.9E+04	1.4E-03
1607-H1_Overburder	non-Rad	Beryllium	7440-41-7	ug/kg	0.267	1.0E+04	2.7E-02	1.4E+04	1.9E-02
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	0.001	No Value	--	4.1E+03	3.4E-04
1607-H1_Overburder	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.282	1.0E+05	2.8E-03	4.5E+04	6.2E-03
1607-H1_Overburder	non-Rad	Boron	7440-42-8	ug/kg	3,760	5.0E+02	**7.5E+00**	1.3E+05	2.8E-02
1607-H1_Overburder	non-Rad	Cadmium	7440-43-9	ug/kg	0.108	4.0E+03	2.7E-02	1.6E+03	6.6E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
1607-H1_Overburder	Rad	Carbon-14	14762-75-5	pCi/g	0.002	6.1E+04	2.5E-05	3.2E+01	4.9E-02
1607-H1_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	12,120	4.0E+02	**3.0E+01**	3.8E+04	3.2E-01
1607-H1_Overburder	non-Rad	Cobalt	7440-48-4	ug/kg	6,260	1.3E+04	4.8E-01	1.1E+05	5.6E-02
1607-H1_Overburder	non-Rad	Copper	7440-50-8	ug/kg	14,456	5.0E+04	2.9E-01	1.1E+05	1.4E-01
1607-H1_Overburder	non-Rad	Dieldrin	60-57-1	ug/kg	0.002	No Value	--	2.1E+01	9.6E-02
1607-H1_Overburder	non-Rad	Fluoranthene	206-44-0	ug/kg	0.071	1.8E+04	4.0E-03	8.4E+05	8.5E-05
1607-H1_Overburder	non-Rad	Fluoride	16984-48-8	ug/kg	1,465	No Value	--	2.3E+06	6.4E-04
1607-H1_Overburder	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0.169	No Value	--	1.3E+06	1.4E-04
1607-H1_Overburder	non-Rad	Lead	7439-92-1	ug/kg	60,452	5.0E+04	**1.2E+00**	3.6E+04	**1.7E+00**
1607-H1_Overburder	non-Rad	Manganese	7439-96-5	ug/kg	299,830	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
1607-H1_Overburder	non-Rad	Mercury	7439-97-6	ug/kg	0.015	1.0E+02	1.5E-01	1.9E+03	8.0E-03
1607-H1_Overburder	non-Rad	Molybdenum	7439-98-7	ug/kg	0.449	2.0E+03	2.2E-01	1.4E+04	3.2E-02
1607-H1_Overburder	non-Rad	Nickel	7440-02-0	ug/kg	11,144	3.0E+04	3.7E-01	3.3E+04	3.4E-01
1607-H1_Overburder	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	No Value	--	3.4E+08	1.7E-04
1607-H1_Overburder	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,996	No Value	--	No Value	--
1607-H1_Overburder	non-Rad	Pyrene	129-00-0	ug/kg	0.096	1.8E+04	5.3E-03	6.0E+05	1.6E-04
1607-H1_Overburder	Rad	Rads SOF	---	pCi/g	--	--	8.5E-05	--	4.9E-02
1607-H1_Overburder	non-Rad	Selenium	7782-49-2	ug/kg	0.979	5.2E+02	**1.9E+00**	1.9E+03	5.2E-01
1607-H1_Overburder	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,112	5.0E+03	4.2E-01	7.9E+05	2.7E-03
1607-H1_Overburder	Rad	Uranium-233/234	U-233/234	pCi/g	0.001	5.2E+04	1.4E-05	6.4E+03	1.1E-04
1607-H1_Overburder	Rad	Uranium-238	U-238	pCi/g	0.001	1.6E+04	4.5E-05	5.2E+03	1.4E-04
1607-H1_Overburder	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	2.0E+03	**2.3E+01**	3.1E+04	**1.5E+00**
1607-H1_Overburder	non-Rad	Zinc	7440-66-6	ug/kg	39,273	5.0E+04	7.9E-01	6.8E+04	5.8E-01
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.004	No Value	--	4.0E+02	1.0E-02
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.001	No Value	--	8.8E+02	1.5E-03
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	0.208	5.0E+03	4.2E-02	6.0E+03	3.5E-02
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0.027	4.0E+04	6.7E-04	1.5E+03	1.8E-02
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0.014	4.0E+04	3.4E-04	1.5E+03	9.3E-03
1607-H1_Shallow	non-Rad	Aroclors HI	---	ug/kg	--	--	1.0E-03	--	2.7E-02
1607-H1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,508	1.0E+04	9.5E-01	1.9E+05	5.0E-02
1607-H1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,403	3.3E+05	2.4E-01	1.3E+06	6.1E-02
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.073	1.8E+04	4.0E-03	6.4E+04	1.1E-03
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.068	1.8E+04	3.8E-03	7.6E+04	8.9E-04
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.055	1.8E+04	3.0E-03	3.9E+04	1.4E-03
1607-H1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0.268	1.0E+04	2.7E-02	1.4E+04	1.9E-02
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.211	1.0E+05	2.1E-03	4.5E+04	4.7E-03
1607-H1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,052	5.0E+02	**6.1E+00**	1.3E+05	2.3E-02
1607-H1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0.127	4.0E+03	3.2E-02	1.6E+03	7.8E-02
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	0.002	6.1E+04	2.5E-05	3.2E+01	4.9E-02
1607-H1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.000	2.2E+03	3.5E-05	9.2E+02	8.3E-05
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,089	4.0E+02	**3.3E+01**	3.8E+04	3.4E-01
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0.078	1.8E+04	4.4E-03	4.5E+04	1.8E-03
1607-H1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,042	1.3E+04	5.4E-01	1.1E+05	6.3E-02
1607-H1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,043	5.0E+04	3.0E-01	1.1E+05	1.4E-01
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.004	No Value	--	2.1E+01	1.9E-01
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	0.253	No Value	--	No Value	--
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0.171	1.8E+04	9.5E-03	8.4E+05	2.0E-04
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	No Value	--	2.3E+06	1.8E-03
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0.137	No Value	--	1.3E+06	1.1E-04
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	5.0E+04	5.1E-01	3.6E+04	7.1E-01
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,367	2.2E+05	**1.4E+00**	5.8E+06	5.4E-02
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0.097	1.0E+02	9.7E-01	1.9E+03	5.2E-02
1607-H1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0.383	2.0E+03	1.9E-01	1.4E+04	2.7E-02
1607-H1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,940	3.0E+04	4.0E-01	3.3E+04	3.7E-01
1607-H1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	12,618	No Value	--	3.4E+08	3.7E-05
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747	No Value	--	No Value	--
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.000	1.8E+04	1.9E-05	6.0E+03	5.6E-05
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0.233	1.8E+04	1.3E-02	6.0E+05	3.9E-04
1607-H1_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.3E-04	--	6.6E-02
1607-H1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,781	5.0E+03	3.6E-01	7.9E+05	2.3E-03
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.007	1.7E+06	4.4E-06	4.2E+02	1.8E-02
1607-H1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.001	5.2E+04	1.3E-05	6.4E+03	1.1E-04
1607-H1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.001	1.6E+04	3.8E-05	5.2E+03	1.2E-04
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	2.0E+03	**2.5E+01**	3.1E+04	**1.6E+00**
1607-H1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,328	5.0E+04	8.7E-01	6.8E+04	6.4E-01
1607-H1_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	1.0E+04	1.3E-01	1.9E+05	6.9E-03
1607-H1_Shallow_Focusec	non-Rad	Barium	7440-39-3	ug/kg	40,500	3.3E+05	1.2E-01	1.3E+06	3.1E-02
1607-H1_Shallow_Focusec	non-Rad	Cadmium	7440-43-9	ug/kg	0.055	4.0E+03	1.4E-02	1.6E+03	3.4E-02
1607-H1_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	9,800	4.0E+02	**2.5E+01**	3.8E+04	2.6E-01
1607-H1_Shallow_Focusec	non-Rad	Cobalt	7440-48-4	ug/kg	4,800	1.3E+04	3.7E-01	1.1E+05	4.3E-02
1607-H1_Shallow_Focusec	non-Rad	Copper	7440-50-8	ug/kg	13,400	5.0E+04	2.7E-01	1.1E+05	1.3E-01
1607-H1_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	2,700	5.0E+04	5.4E-02	3.6E+04	7.6E-02
1607-H1_Shallow_Focusec	non-Rad	Manganese	7439-96-5	ug/kg	228,000	2.2E+05	**1.0E+00**	5.8E+06	3.9E-02
1607-H1_Shallow_Focusec	non-Rad	Nickel	7440-02-0	ug/kg	11,200	3.0E+04	3.7E-01	3.3E+04	3.4E-01
1607-H1_Shallow_Focusec	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	0.840	No Value	--	No Value	--
1607-H1_Shallow_Focusec	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	0.570	No Value	--	No Value	--
1607-H1_Shallow_Focusec	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	0.000	5.0E+03	8.5E-06	7.9E+05	5.4E-08
1607-H1_Shallow_Focusec	Rad	Uranium-234	13966-29-5	pCi/g	0.000	5.2E+04	5.1E-06	6.4E+03	4.2E-05
1607-H1_Shallow_Focusec	non-Rad	Vanadium	7440-62-2	ug/kg	33,500	2.0E+03	**1.7E+01**	3.1E+04	**1.1E+00**
1607-H1_Shallow_Focusec	non-Rad	Zinc	7440-66-6	ug/kg	29,900	5.0E+04	6.0E-01	6.8E+04	4.4E-01
1607-H2_Overburder	non-Rad	Anthracene	120-12-7	ug/kg	0.023	2.9E+04	7.9E-04	6.8E+05	3.4E-05
1607-H2_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	1.0E+04	**1.6E+00**	1.9E+05	8.3E-02
1607-H2_Overburder	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0.100	1.8E+04	5.6E-03	6.4E+04	1.6E-03
1607-H2_Overburder	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.130	1.8E+04	7.2E-03	7.6E+04	1.7E-03
1607-H2_Overburder	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0.076	1.8E+04	4.2E-03	3.9E+04	1.9E-03
1607-H2_Overburder	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0.094	1.8E+04	5.2E-03	3.9E+04	2.4E-03
1607-H2_Overburder	Rad	Cesium-137	10045-97-3	pCi/g	0.000	2.2E+03	1.7E-05	9.2E+02	4.1E-05
1607-H2_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	10,300	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
1607-H2_Overburder	non-Rad	Chrysene	218-01-9	ug/kg	0.120	1.8E+04	6.7E-03	4.5E+04	2.7E-03
1607-H2_Overburder	non-Rad	Fluoranthene	206-44-0	ug/kg	0.230	1.8E+04	1.3E-02	8.4E+05	2.7E-04
1607-H2_Overburder	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0.079	1.8E+04	4.4E-03	3.6E+04	2.2E-03
1607-H2_Overburder	non-Rad	Lead	7439-92-1	ug/kg	54,900	5.0E+04	**1.1E+00**	3.6E+04	**1.5E+00**
1607-H2_Overburder	non-Rad	Pyrene	129-00-0	ug/kg	0.220	1.8E+04	1.2E-02	6.0E+05	3.7E-04
1607-H2_Overburder	Rad	Rads SOF	---	pCi/g	--	--	7.6E-05	--	2.9E-04
1607-H2_Overburder	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,116	5.0E+03	4.2E-01	7.9E+05	2.7E-03
1607-H2_Overburder	Rad	Uranium-233/234	U-233/234	pCi/g	0.001	5.2E+04	1.4E-05	6.4E+03	1.1E-04
1607-H2_Overburder	Rad	Uranium-238	U-238	pCi/g	0.001	1.6E+04	4.5E-05	5.2E+03	1.4E-04
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0.160	4.0E+04	4.0E-03	1.5E+03	1.1E-01
1607-H2_Shallow	non-Rad	Aroclors HI	---	ug/kg	--	--	4.0E-03	--	1.1E-01
1607-H2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,132	1.0E+04	7.1E-01	1.9E+05	3.8E-02
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0.024	1.0E+05	2.4E-04	4.5E+04	5.3E-04
1607-H2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.000	2.2E+03	3.3E-05	9.2E+02	7.9E-05
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	4.0E+02	**5.1E+02**	3.8E+04	**5.4E+00**
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	0.110	No Value	--	No Value	--
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	5.0E+04	7.5E-01	3.6E+04	**1.1E+00**
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	1.0E+02	**2.6E+01**	1.9E+03	**1.4E+00**
1607-H2_Shallow	Rad	Rads SOF	---	pCi/g	--	--	9.9E-05	--	3.7E-04
1607-H2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,242	5.0E+03	4.5E-01	7.9E+05	2.9E-03
1607-H2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.001	5.2E+04	1.8E-05	6.4E+03	1.4E-04
1607-H2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.001	1.6E+04	4.8E-05	5.2E+03	1.5E-04
1607-H2_Shallow_Focusec	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	1.0E+04	1.5E-01	1.9E+05	7.9E-03
1607-H2_Shallow_Focusec	non-Rad	Chromium	7440-47-3	ug/kg	7,900	4.0E+02	**2.0E+01**	3.8E+04	2.1E-01
1607-H2_Shallow_Focusec	non-Rad	Lead	7439-92-1	ug/kg	2,500	5.0E+04	5.0E-02	3.6E+04	7.0E-02
1607-H2_Shallow_Focusec	non-Rad	Mercury	7439-97-6	ug/kg	0.065	1.0E+02	6.5E-01	1.9E+03	3.5E-02
1607-H3_Overburder	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	0.002	No Value	--	No Value	--
1607-H3_Overburder	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.018	No Value	--	4.0E+02	4.6E-02
1607-H3_Overburder	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.003	No Value	--	8.8E+02	2.8E-03
1607-H3_Overburder	non-Rad	Acenaphthene	83-32-9	ug/kg	0.018	2.0E+04	8.8E-04	1.1E+06	1.6E-05
1607-H3_Overburder	non-Rad	Anthracene	120-12-7	ug/kg	0.002	2.9E+04	6.0E-05	6.8E+05	2.6E-06
1607-H3_Overburder	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0.015	4.0E+04	3.9E-04	1.5E+03	1.0E-02
1607-H3_Overburder	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0.009	4.0E+04	2.4E-04	1.5E+03	6.4E-03
1607-H3_Overburder	non-Rad	Aroclors HI	---	ug/kg	--	--	6.2E-04	--	1.7E-02
1607-H3_Overburder	non-Rad	Arsenic	7440-38-2	ug/kg	4,302	1.0E+04	4.3E-01	1.9E+05	2.3E-02
1607-H3_Overburder	non-Rad	Barium	7440-39-3	ug/kg	97,722	3.3E+05	3.0E-01	1.3E+06	7.4E-02

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
1607-H3_Overburder	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,007	1.8E+04	4.0E-04	6.4E+04	1.1E-04
1607-H3_Overburder	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,011	1.8E+04	5.9E-04	7.6E+04	1.4E-04
1607-H3_Overburder	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,009	1.8E+04	4.9E-04	3.9E+04	2.2E-04
1607-H3_Overburder	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,004	1.8E+04	2.2E-04	3.9E+04	1.0E-04
1607-H3_Overburder	non-Rad	Beryllium	7440-41-7	ug/kg	0,261	1.0E+04	2.6E-02	1.4E+04	1.9E-02
1607-H3_Overburder	non-Rad	Boron	7440-42-8	ug/kg	4,725	5.0E+02	**9.5E+00**	1.3E+05	3.6E-02
1607-H3_Overburder	non-Rad	Cadmium	7440-43-9	ug/kg	0,139	4.0E+03	3.5E-02	1.6E+03	8.6E-02
1607-H3_Overburder	non-Rad	Chromium	7440-47-3	ug/kg	49,818	4.0E+02	**1.3E+02**	3.8E+04	**1.3E+00**
1607-H3_Overburder	non-Rad	Chrysene	218-01-9	ug/kg	0,012	1.8E+04	6.6E-04	4.5E+04	2.7E-04
1607-H3_Overburder	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	1.3E+04	5.6E-01	1.1E+05	6.6E-02
1607-H3_Overburder	non-Rad	Copper	7440-50-8	ug/kg	14,980	5.0E+04	3.0E-01	1.1E+05	1.4E-01
1607-H3_Overburder	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,002	1.8E+04	9.4E-05	4.4E+04	3.8E-05
1607-H3_Overburder	non-Rad	Endosulfan I	959-98-8	ug/kg	0,003	No Value	--	7.1E+02	4.5E-03
1607-H3_Overburder	non-Rad	Fluoranthene	206-44-0	ug/kg	0,022	1.8E+04	1.2E-03	8.4E+05	2.7E-05
1607-H3_Overburder	non-Rad	Fluorene	86-73-7	ug/kg	0,001	2.9E+04	4.7E-05	1.8E+05	7.8E-06
1607-H3_Overburder	non-Rad	Fluoride	16984-48-8	ug/kg	0,992	No Value	--	2.3E+06	4.4E-04
1607-H3_Overburder	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,129	No Value	--	1.3E+06	1.0E-04
1607-H3_Overburder	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,007	1.8E+04	3.9E-04	3.6E+04	2.0E-04
1607-H3_Overburder	non-Rad	Lead	7439-92-1	ug/kg	21,505	5.0E+04	4.3E-01	3.6E+04	6.0E-01
1607-H3_Overburder	non-Rad	Manganese	7439-96-5	ug/kg	306,125	2.2E+05	**1.4E+00**	5.8E+06	5.3E-02
1607-H3_Overburder	non-Rad	Mercury	7439-97-6	ug/kg	0,015	1.0E+02	1.5E-01	1.9E+03	8.0E-03
1607-H3_Overburder	non-Rad	Methylene chloride	75-09-2	ug/kg	0,011	No Value	--	1.7E+05	6.5E-05
1607-H3_Overburder	non-Rad	Molybdenum	7439-98-7	ug/kg	0,365	2.0E+03	1.8E-01	1.4E+04	2.6E-02
1607-H3_Overburder	non-Rad	Naphthalene	91-20-3	ug/kg	0,103	2.9E+04	3.5E-03	1.0E+05	1.0E-03
1607-H3_Overburder	non-Rad	Nickel	7440-02-0	ug/kg	21,414	3.0E+04	7.1E-01	3.3E+04	6.6E-01
1607-H3_Overburder	non-Rad	Nitrate	14797-55-8	ug/kg	43,234	No Value	--	3.4E+08	1.3E-04
1607-H3_Overburder	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,068	No Value	--	No Value	--
1607-H3_Overburder	non-Rad	Pyrene	129-00-0	ug/kg	0,016	1.8E+04	8.8E-04	6.0E+05	2.7E-05
1607-H3_Overburder	non-Rad	Silver	7440-22-4	ug/kg	0,840	2.0E+03	4.2E-01	5.0E+04	1.7E-02
1607-H3_Overburder	non-Rad	Vanadium	7440-62-2	ug/kg	51,141	2.0E+03	**2.6E+01**	3.1E+04	**1.6E+00**
1607-H3_Overburder	non-Rad	Zinc	7440-66-6	ug/kg	51,058	5.0E+04	**1.0E+00**	6.8E+04	7.5E-01
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	0,219	2.9E+04	7.6E-03	6.0E+03	3.6E-02
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	0,002	No Value	--	No Value	--
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,005	No Value	--	4.0E+02	1.2E-02
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,010	No Value	--	8.8E+02	1.2E-02
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	0,409	2.0E+04	2.1E-02	1.1E+06	3.7E-04
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	0,008	2.9E+04	2.7E-04	6.8E+05	1.2E-05
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	0,389	5.0E+03	7.8E-02	6.0E+03	6.5E-02
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	0,011	4.0E+04	2.6E-04	1.5E+03	7.1E-03
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	0,019	4.0E+04	4.8E-04	1.5E+03	1.3E-02
1607-H3_Shallow_1	non-Rad	Aroclors HI	---	ug/kg	--	--	7.5E-04	--	2.0E-02
1607-H3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,240	1.0E+04	3.2E-01	1.9E+05	1.7E-02
1607-H3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	70,120	3.3E+05	2.1E-01	1.3E+06	5.3E-02
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,011	1.8E+04	6.3E-04	6.4E+04	1.8E-04
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,005	1.8E+04	2.5E-04	7.6E+04	6.0E-05
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,004	1.8E+04	2.0E-04	3.9E+04	9.4E-05
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,004	1.8E+04	2.3E-04	3.9E+04	1.1E-04
1607-H3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,245	1.0E+04	2.5E-02	1.4E+04	1.8E-02
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	0,005	No Value	--	4.1E+03	1.1E-03
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	5.0E+02	**3.9E+00**	1.3E+05	1.5E-02
1607-H3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,121	4.0E+03	3.0E-02	1.6E+03	7.4E-02
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,104	4.0E+02	**3.0E+01**	3.8E+04	3.2E-01
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	0,043	1.8E+04	2.4E-03	4.5E+04	9.6E-04
1607-H3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,690	1.3E+04	5.2E-01	1.1E+05	6.0E-02
1607-H3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,285	5.0E+04	2.7E-01	1.1E+05	1.2E-01
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,002	1.8E+04	1.3E-04	4.4E+04	5.1E-05
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	ug/kg	0,003	No Value	--	7.1E+02	4.2E-03
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	0,069	1.8E+04	3.8E-03	8.4E+05	8.2E-05
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	0,076	2.9E+04	2.6E-03	1.8E+05	4.3E-04
1607-H3_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,326	No Value	--	2.3E+06	5.8E-04
1607-H3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,027	5.0E+04	1.8E-01	3.6E+04	2.5E-01
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	287,009	2.2E+05	**1.3E+00**	5.8E+06	5.0E-02
1607-H3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	0,009	1.0E+02	9.0E-02	1.9E+03	4.8E-03
1607-H3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	0,441	2.0E+03	2.2E-01	1.4E+04	3.2E-02
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	0,169	2.9E+04	5.8E-03	1.0E+05	1.7E-03
1607-H3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,739	3.0E+04	3.6E-01	3.3E+04	3.3E-01
1607-H3_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	6,544	No Value	--	3.4E+08	1.9E-05
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980	No Value	--	No Value	--
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	0,022	1.8E+04	1.2E-03	6.0E+05	3.7E-05
1607-H3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	0,300	5.2E+02	5.8E-01	1.9E+03	1.6E-01
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	51,055	2.0E+03	**2.6E+01**	3.1E+04	**1.6E+00**
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,150	5.0E+04	**1.2E+00**	6.8E+04	8.6E-01
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	0,010	2.0E+04	5.2E-04	1.1E+06	9.4E-06
1607-H3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,275	1.0E+04	2.3E-01	1.9E+05	1.2E-02
1607-H3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	50,645	3.3E+05	1.5E-01	1.3E+06	3.8E-02
1607-H3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,197	1.0E+04	2.0E-02	1.4E+04	1.4E-02
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,136	5.0E+02	**2.3E+00**	1.3E+05	8.6E-03
1607-H3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,093	4.0E+03	2.3E-02	1.6E+03	5.7E-02
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,587	4.0E+02	**2.7E+01**	3.8E+04	2.8E-01
1607-H3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,450	1.3E+04	4.2E-01	1.1E+05	4.9E-02
1607-H3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,436	5.0E+04	2.7E-01	1.1E+05	1.3E-01
1607-H3_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,005	No Value	--	2.3E+06	4.4E-04
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,133	No Value	--	1.3E+06	1.1E-04
1607-H3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,086	5.0E+04	8.2E-02	3.6E+04	1.2E-01
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	256,331	2.2E+05	**1.2E+00**	5.8E+06	4.4E-02
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	0,016	1.0E+02	1.6E-01	1.9E+03	8.6E-03
1607-H3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,268	2.0E+03	1.3E-01	1.4E+04	1.9E-02
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	0,008	2.9E+04	2.6E-04	1.0E+05	7.6E-05
1607-H3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,188	3.0E+04	3.4E-01	3.3E+04	3.1E-01
1607-H3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	2,497	No Value	--	3.4E+08	7.3E-06
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	0,541	No Value	--	No Value	--
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	42,063	2.0E+03	**2.1E+01**	3.1E+04	**1.4E+00**
1607-H3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	33,110	5.0E+04	6.6E-01	6.8E+04	4.9E-01
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	0,100	2.0E+04	5.0E-03	1.1E+06	9.1E-05
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	0,280	2.9E+04	9.7E-03	6.8E+05	4.1E-04
1607-H4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,500	1.0E+04	7.5E-01	1.9E+05	4.0E-02
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,365	1.8E+04	2.0E-02	6.4E+04	5.7E-03
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,381	1.8E+04	2.1E-02	7.6E+04	5.0E-03
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,356	1.8E+04	2.0E-02	3.9E+04	9.1E-03
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,355	1.8E+04	2.0E-02	3.9E+04	9.1E-03
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	0,032	1.0E+05	3.2E-04	4.5E+04	7.1E-04
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	0,120	No Value	--	No Value	--
1607-H4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0,000	2.2E+03	6.2E-05	9.2E+02	1.5E-04
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	4.0E+02	**2.6E+01**	3.8E+04	2.7E-01
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,389	1.8E+04	2.2E-02	4.5E+04	8.7E-03
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,022	1.8E+04	1.2E-03	4.4E+04	5.0E-04
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	0,042	No Value	--	No Value	--
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300	1.8E+04	7.2E-02	8.4E+05	1.6E-03
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	0,093	2.9E+04	3.2E-03	1.8E+05	5.3E-04
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,180	1.8E+04	1.0E-02	3.6E+04	5.1E-03
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	5.0E+04	8.8E-01	3.6E+04	**1.2E+00**
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,040	1.0E+02	4.0E-01	1.9E+03	2.1E-02
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	0,025	2.9E+04	8.6E-04	1.0E+05	2.5E-04
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200	1.8E+04	6.7E-02	6.0E+05	2.0E-03
1607-H4_Shallow	Rad	Rads SOF	---	pCi/g	--	--	1.1E-04	--	3.5E-04
1607-H4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,587	5.0E+03	3.2E-01	7.9E+05	2.0E-03
1607-H4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0,001	5.2E+04	1.2E-05	6.4E+03	9.6E-05
1607-H4_Shallow	Rad	Uranium-238	U-238	pCi/g	0,001	1.6E+04	3.4E-05	5.2E+03	1.0E-04
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,001	No Value	--	4.0E+02	1.8E-03
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,001	No Value	--	8.8E+02	1.0E-03
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	0,007	No Value	--	No Value	--
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	0,005	2.9E+04	1.9E-04	6.8E+05	7.9E-06
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	1.0E+04	**3.2E+00**	1.9E+05	1.7E-01

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient
600-151_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	100,704	3.3E+05	3.1E-01	1.3E+06	7.6E-02
600-151_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,075	1.8E+04	4.2E-03	6.4E+04	1.2E-03
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,058	1.8E+04	3.2E-03	7.6E+04	7.6E-04
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,046	1.8E+04	2.6E-03	3.9E+04	1.2E-03
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,023	1.8E+04	1.3E-03	3.9E+04	6.0E-04
600-151_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	0,178	1.0E+04	1.8E-02	1.4E+04	1.3E-02
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	5.0E+02	**9.7E+00**	1.3E+05	3.7E-02
600-151_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	0,286	4.0E+03	7.2E-02	1.6E+03	1.8E-01
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,125	4.0E+02	**3.3E+01**	3.8E+04	3.4E-01
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	0,059	1.8E+04	3.3E-03	4.5E+04	1.3E-03
600-151_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,921	1.3E+04	6.1E-01	1.1E+05	7.1E-02
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	5.0E+04	4.5E-01	1.1E+05	2.1E-01
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,023	1.8E+04	1.3E-03	4.4E+04	5.2E-04
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	0,125	1.8E+04	6.9E-03	8.4E+05	1.5E-04
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	0,007	2.9E+04	2.3E-04	1.8E+05	3.8E-05
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	0,264	No Value	--	1.3E+06	2.1E-04
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,045	1.8E+04	2.5E-03	3.6E+04	1.3E-03
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	5.0E+04	**2.5E+00**	3.6E+04	**3.6E+00**
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	352,409	2.2E+05	**1.6E+00**	5.8E+06	6.1E-02
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	0,015	1.0E+02	1.5E-01	1.9E+03	7.8E-03
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	0,002	No Value	--	1.7E+05	1.2E-05
600-151_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	0,470	2.0E+03	2.4E-01	1.4E+04	3.4E-02
600-151_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,000	3.0E+04	4.3E-01	3.3E+04	4.0E-01
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	0,159	1.8E+04	8.9E-03	6.0E+05	2.7E-04
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	0,940	5.2E+02	**1.8E+00**	1.9E+03	5.0E-01
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454	2.0E+05	8.7E-02	3.6E+08	4.9E-05
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	30,037	No Value	--	No Value	--
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	41,178	2.0E+03	**2.1E+01**	3.1E+04	**1.3E+00**
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	64,969	5.0E+04	**1.3E+00**	6.8E+04	9.6E-01
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	0,007	No Value	--	3.1E+06	2.2E-06
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,000	No Value	--	4.0E+02	1.2E-03
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	0,030	No Value	--	No Value	--
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	1.0E+04	**6.0E+00**	1.9E+05	3.2E-01
600-151_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	93,206	3.3E+05	2.8E-01	1.3E+06	7.1E-02
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,024	1.8E+04	1.3E-03	6.4E+04	3.7E-04
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,025	1.8E+04	1.4E-03	7.6E+04	3.2E-04
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,025	1.8E+04	1.4E-03	3.9E+04	6.3E-04
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,016	1.8E+04	8.7E-04	3.9E+04	4.0E-04
600-151_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	0,129	1.0E+04	1.3E-02	1.4E+04	9.2E-03
600-151_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,271	5.0E+02	**4.5E+00**	1.3E+05	1.7E-02
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	0,596	4.0E+03	1.5E-01	1.6E+03	3.7E-01
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,221	4.0E+02	**3.1E+01**	3.8E+04	3.2E-01
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	0,029	1.8E+04	1.6E-03	4.5E+04	6.6E-04
600-151_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	1.3E+04	5.8E-01	1.1E+05	6.7E-02
600-151_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,468	5.0E+04	2.9E-01	1.1E+05	1.4E-01
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	0,060	1.8E+04	3.3E-03	8.4E+05	7.1E-05
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	5.0E+04	**5.3E+00**	3.6E+04	**7.5E+00**
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	359,399	2.2E+05	**1.6E+00**	5.8E+06	6.2E-02
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	0,013	1.0E+02	1.3E-01	1.9E+03	7.1E-03
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	0,011	No Value	--	1.7E+05	6.6E-05
600-151_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	0,330	2.0E+03	1.7E-01	1.4E+04	2.4E-02
600-151_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,536	3.0E+04	3.9E-01	3.3E+04	3.5E-01
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	0,072	1.8E+04	4.0E-03	6.0E+05	1.2E-04
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660	2.0E+05	8.3E-03	3.6E+08	4.7E-06
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,646	No Value	--	No Value	--
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	38,407	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
600-151_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	47,156	5.0E+04	9.4E-01	6.8E+04	7.0E-01
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0,003	No Value	--	4.0E+02	8.5E-03
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0,001	No Value	--	8.8E+02	1.0E-03
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	0,007	2.9E+04	2.3E-04	6.8E+05	9.9E-06
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	1.0E+04	**5.4E+00**	1.9E+05	2.9E-01
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	3.3E+05	6.5E-01	1.3E+06	1.6E-01
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,038	1.8E+04	2.1E-03	6.4E+04	6.0E-04
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,039	1.8E+04	2.2E-03	7.6E+04	5.2E-04
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,031	1.8E+04	1.7E-03	3.9E+04	7.8E-04
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,016	1.8E+04	8.9E-04	3.9E+04	4.1E-04
600-151_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	0,137	1.0E+04	1.4E-02	1.4E+04	9.8E-03
600-151_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,612	5.0E+02	**5.2E+00**	1.3E+05	2.0E-02
600-151_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	0,511	4.0E+03	1.3E-01	1.6E+03	3.1E-01
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,175	4.0E+02	**3.3E+01**	3.8E+04	3.5E-01
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	0,045	1.8E+04	2.5E-03	4.5E+04	1.0E-03
600-151_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,686	1.3E+04	5.9E-01	1.1E+05	6.9E-02
600-151_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	16,047	5.0E+04	3.2E-01	1.1E+05	1.5E-01
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	0,069	1.8E+04	3.9E-03	8.4E+05	8.3E-05
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	0,009	2.9E+04	3.1E-04	1.8E+05	5.1E-05
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,031	1.8E+04	1.8E-03	3.6E+04	8.8E-04
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	5.0E+04	**5.5E+00**	3.6E+04	**7.8E+00**
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	323,716	2.2E+05	**1.5E+00**	5.8E+06	5.6E-02
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	0,029	1.0E+02	2.9E-01	1.9E+03	1.6E-02
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	0,003	No Value	--	1.7E+05	2.1E-05
600-151_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	0,370	2.0E+03	1.9E-01	1.4E+04	2.7E-02
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	0,018	2.9E+04	6.2E-04	1.0E+05	1.8E-04
600-151_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,315	3.0E+04	4.1E-01	3.3E+04	3.8E-01
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	0,093	1.8E+04	5.2E-03	6.0E+05	1.6E-04
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406	2.0E+05	2.2E-02	3.6E+08	1.2E-05
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	17,034	No Value	--	No Value	--
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	38,454	2.0E+03	**1.9E+01**	3.1E+04	**1.2E+00**
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	62,833	5.0E+04	**1.3E+00**	6.8E+04	9.3E-01
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	0,015	2.9E+04	5.3E-04	6.8E+05	2.3E-05
600-152_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,941	1.0E+04	4.9E-01	1.9E+05	2.6E-02
600-152_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,843	3.3E+05	2.1E-01	1.3E+06	5.1E-02
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	0,013	1.8E+04	7.4E-04	6.4E+04	2.1E-04
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0,015	1.8E+04	8.5E-04	7.6E+04	2.0E-04
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	0,013	1.8E+04	7.4E-04	3.9E+04	3.4E-04
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	0,006	1.8E+04	3.1E-04	3.9E+04	1.4E-04
600-152_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	0,279	1.0E+04	2.8E-02	1.4E+04	2.0E-02
600-152_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,785	5.0E+02	**3.6E+00**	1.3E+05	1.3E-02
600-152_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	0,081	4.0E+03	2.0E-02	1.6E+03	5.0E-02
600-152_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,730	4.0E+02	**3.2E+01**	3.8E+04	3.3E-01
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	0,010	1.8E+04	5.6E-04	4.5E+04	2.3E-04
600-152_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,104	1.3E+04	4.7E-01	1.1E+05	5.5E-02
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	5.0E+04	4.7E-01	1.1E+05	2.2E-01
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0,002	1.8E+04	1.1E-04	4.4E+04	4.5E-05
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	0,039	1.8E+04	2.2E-03	8.4E+05	4.7E-05
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	0,002	2.9E+04	5.8E-05	1.8E+05	9.6E-06
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	0,010	1.8E+04	5.8E-04	3.6E+04	2.9E-04
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	5.0E+04	2.7E-01	3.6E+04	3.8E-01
600-152_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	299,188	2.2E+05	**1.4E+00**	5.8E+06	5.2E-02
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	0,013	1.0E+02	1.3E-01	1.9E+03	7.2E-03
600-152_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	0,280	2.0E+03	1.4E-01	1.4E+04	2.0E-02
600-152_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,630	3.0E+04	3.9E-01	3.3E+04	3.6E-01
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	0,018	1.8E+04	9.8E-04	6.0E+05	3.0E-05
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0,000	3.6E+03	7.4E-05	9.1E+01	2.9E-03
600-152_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,512	2.0E+03	**2.0E+01**	3.1E+04	**1.3E+00**
600-152_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,243	5.0E+04	8.1E-01	6.8E+04	5.9E-01

Notes:

1 Plant/Invertebrate SSLs are the lowest NOAEL based values found in *Tier 1 Risk-Based Soil Concentrations Protective of Ecological Receptors at the Hanford Site* [CHPRC-00784] located in Appendix H of *Remedial Investigation/Feasibility Study for the 100KR-1, 100-KR, and 100-KR-4*

2 Avian/mammal SSLs are the lowest NOAEL based values found in *Tier 1 Risk-Based Soil Concentrations Protective of Ecological Receptors at the Hanford Site* [CHPRC-00784] located in Appendix H of *Remedial Investigation/Feasibility Study for the 100KR-1, 100-KR, and 100-KR-4*

All data represent detected concentrations of the chemical

Hazard Quotients greater than one are in bold font and highlighted yellc

Uranium 234 SSLs were used as surrogates for Uranium 233/23

Table 5. Comparison of 100-H OU Surface Soil (0 to 15 feet [0 to 4.6 m]) Concentrations to SSLs									
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate SSL[1]	Hazard Quotient	Wildlife SSL[2]	Hazard Quotient

pCi/g = pico Curie per gram
SSL = Soil screening leve
µg/kg = Microgram per kilogran

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,100	3.9E+03	No
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,135	1.9E+04	No
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,021	5.1E+05	No
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,051	8.5E+04	No
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	3.9E+03	Yes
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	1.9E+04	No
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	5.1E+05	No
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	7.8E+02	Yes
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	8.5E+04	No
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	6.8E+04	Yes
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,510	3.9E+03	No
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,801	1.9E+04	No
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	277,857	5.1E+05	No
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	8.5E+04	No
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,652	3.9E+03	No
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	14,486	1.9E+04	No
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	326,395	5.1E+05	No
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,475	8.5E+04	No
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	6.8E+04	Yes
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,300	3.9E+03	No
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	1.9E+04	No
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	4,700	1.3E+04	No
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294,000	5.1E+05	No
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	50,100	8.5E+04	No
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	51,300	6.8E+04	No
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,900	3.9E+03	No
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,200	1.9E+04	No
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	5.1E+05	No
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,700	8.5E+04	No
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,042	3.9E+03	No
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,399	1.9E+04	No
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	283,917	5.1E+05	No
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	54,469	8.5E+04	No
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.9E+03	No
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,867	1.9E+04	No
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,116	5.1E+05	No
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	1.3E+01	Yes
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	7.8E+02	Yes
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,615	8.5E+04	No
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,414	6.8E+04	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,532	1.9E+04	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	290,098	5.1E+05	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,439	8.5E+04	No
100-D-29_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,128	3.9E+03	No
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,050	1.9E+04	No
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	297,023	5.1E+05	No
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,107	8.5E+04	No
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	3.9E+03	Yes
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,317	1.9E+04	No
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	292,330	5.1E+05	No
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60,569	8.5E+04	No
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,200	1.9E+04	No
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	270,000	5.1E+05	No
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,000	8.5E+04	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,018	3.9E+03	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,844	1.9E+04	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,306	5.1E+05	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,650	8.5E+04	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,139	3.9E+03	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,620	1.9E+04	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	350,952	5.1E+05	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,961	8.5E+04	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,886	6.8E+04	No
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,283	3.9E+03	No
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,762	1.9E+04	No
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	289,763	5.1E+05	No
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	41,549	8.5E+04	No
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,400	3.9E+03	No
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,199	1.9E+04	No
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	310,285	5.1E+05	No
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,877	8.5E+04	No
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	3.9E+03	No
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,900	1.9E+04	No
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318,000	5.1E+05	No
100-D-31:10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,300	8.5E+04	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.9E+03	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,301	1.9E+04	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,257	5.1E+05	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	7.8E+02	Yes

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	70,801	8.5E+04	No
100-D-31:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.9E+03	No
100-D-31:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,656	1.9E+04	No
100-D-31:3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	302,831	5.1E+05	No
100-D-31:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,700	8.5E+04	No
100-D-31:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,000	3.9E+03	No
100-D-31:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,358	1.9E+04	No
100-D-31:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,669	5.1E+05	No
100-D-31:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	85,009	8.5E+04	No
100-D-31:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	825	3.9E+03	No
100-D-31:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,490	1.9E+04	No
100-D-31:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346,000	5.1E+05	No
100-D-31:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75,300	8.5E+04	No
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	3.9E+03	Yes
100-D-31:5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,462	1.9E+04	No
100-D-31:5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	371,945	5.1E+05	No
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	1.3E+01	Yes
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	7.8E+02	Yes
100-D-31:5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,426	8.5E+04	No
100-D-31:5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	56,474	6.8E+04	No
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	3.9E+03	Yes
100-D-31:5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,395	1.9E+04	No
100-D-31:5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331,458	5.1E+05	No
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	1.3E+01	Yes
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	7.8E+02	Yes
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,696	8.5E+04	No
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	6.8E+04	Yes
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	3.9E+03	Yes
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,736	1.9E+04	No
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	355,498	5.1E+05	No
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	1.3E+01	Yes
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,499	8.5E+04	No
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	65,614	6.8E+04	No
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	3.9E+03	Yes
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,798	1.9E+04	No
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,083	5.1E+05	No
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	1.3E+01	Yes
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,023	8.5E+04	No
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,960	6.8E+04	No
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,305	3.9E+03	No
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,038	1.9E+04	No
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	304,518	5.1E+05	No
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,619	8.5E+04	No
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,234	1.9E+04	No
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	335,983	5.1E+05	No
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,980	8.5E+04	No
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	1.9E+04	No
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	5.1E+05	No
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	79,500	8.5E+04	No
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.9E+03	No
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,017	1.9E+04	No
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	339,535	5.1E+05	No
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	64,672	8.5E+04	No
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	940	3.9E+03	No
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,290	1.9E+04	No
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	312,190	5.1E+05	No
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,087	8.5E+04	No
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6,790	1.9E+04	No
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	334,000	5.1E+05	No
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	8.5E+04	Yes
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	51,800	6.8E+04	No
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	1.3E+05	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	3.9E+03	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13,400	1.9E+04	No
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	368,000	5.1E+05	No
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	1.3E+01	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	4.7E+02	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67,200	8.5E+04	No
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	6.8E+04	Yes
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	5,328	1.9E+04	No
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	292,130	5.1E+05	No
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52,680	8.5E+04	No
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.9E+03	No
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,132	1.9E+04	No
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	318,748	5.1E+05	No
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57,014	8.5E+04	No
100-D-32_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,234	3.9E+03	No
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,852	1.9E+04	No
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	369,294	5.1E+05	No
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	76,983	8.5E+04	No
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,821	6.8E+04	No
100-D-32_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,505	3.9E+03	No
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,447	1.9E+04	No
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	356,899	5.1E+05	No
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	76,249	8.5E+04	No
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	62,123	6.8E+04	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	ug/kg	929	3.9E+03	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,297	1.9E+04	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	316,433	5.1E+05	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	700	7.8E+02	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	63,875	8.5E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,181	3.9E+03	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,963	1.9E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	2.2E+04	**Yes**
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,773	5.1E+05	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,326	8.5E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,192	6.8E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	660	3.9E+03	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	1.9E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	335,000	5.1E+05	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	77,900	8.5E+04	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,000	6.8E+04	No
100-D-47_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,497	3.9E+03	No
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,948	1.9E+04	No
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	342,771	5.1E+05	No
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	68,752	8.5E+04	No
100-D-47_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,317	3.9E+03	No
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,828	1.9E+04	No
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	338,839	5.1E+05	No
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	70,090	8.5E+04	No
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,700	3.9E+03	No
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,300	1.9E+04	No
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	5.1E+05	No
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	8.5E+04	**Yes**
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,300	6.8E+04	No
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	811	3.9E+03	No
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,400	1.9E+04	No
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	5.1E+05	No
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,900	8.5E+04	No
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,400	1.9E+04	No
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	3.9E+03	**Yes**
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,204	1.9E+04	No
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	327,758	5.1E+05	No
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	7.8E+02	**Yes**
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,593	8.5E+04	No
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	66,962	6.8E+04	No
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,600	3.9E+03	No
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,457	1.9E+04	No
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	290,501	5.1E+05	No
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	7.8E+02	**Yes**
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,162	8.5E+04	No
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,499	6.8E+04	No
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	3.9E+03	No
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	1.9E+04	No
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	339,000	5.1E+05	No
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,100	8.5E+04	No
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	ug/kg	1,250	3.9E+03	No
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	ug/kg	17,678	1.9E+04	No
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	ug/kg	311,404	5.1E+05	No
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	ug/kg	56,980	8.5E+04	No
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	ug/kg	56,993	6.8E+04	No
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	ug/kg	1,407	3.9E+03	No
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	ug/kg	16,179	1.9E+04	No
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	ug/kg	306,866	5.1E+05	No
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	ug/kg	52,528	8.5E+04	No
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	11,000	1.9E+04	No
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	310,000	5.1E+05	No
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,000	8.5E+04	No
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,525	3.9E+03	No
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,824	1.9E+04	No
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	306,134	5.1E+05	No
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	56,966	8.5E+04	No
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.9E+03	No
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,515	1.9E+04	No
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	281,887	5.1E+05	No
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,416	8.5E+04	No
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,605	3.9E+03	No
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,261	1.9E+04	No
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	322,267	5.1E+05	No
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64,762	8.5E+04	No
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3.9E+03	No
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	1.9E+04	**Yes**
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	5.1E+05	No
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	8.5E+04	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	1.9E+04	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	ug/kg	350,000	5.1E+05	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,000	8.5E+04	No
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	3.9E+03	Yes
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,565	1.9E+04	No
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	347,567	5.1E+05	No
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	7.8E+02	Yes
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,682	8.5E+04	No
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,900	3.9E+03	No
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,035	1.9E+04	No
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	290,472	5.1E+05	No
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	7.8E+02	Yes
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	70,960	8.5E+04	No
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,533	3.9E+03	No
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	9,024	1.9E+04	No
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	343,655	5.1E+05	No
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	63,913	8.5E+04	No
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.9E+03	No
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	1.9E+04	No
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	303,000	5.1E+05	No
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,200	8.5E+04	No
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,719	3.9E+03	No
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,443	1.9E+04	No
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	279,739	5.1E+05	No
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	1.3E+01	Yes
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	34,102	8.5E+04	No
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	1.9E+04	No
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	2.2E+04	Yes
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	5.1E+05	No
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	61,100	8.5E+04	No
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	6.8E+04	Yes
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	1.9E+04	No
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	5.1E+05	No
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	8.5E+04	No
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	1.9E+04	No
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	5.1E+05	No
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	8.5E+04	No
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,300	1.9E+04	No
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	1.0E+04	Yes
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	17,800	8.5E+04	No
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	1.9E+04	No
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	5.1E+05	No
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	1.3E+01	Yes
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,100	8.5E+04	No
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	1.9E+04	No
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	343,000	5.1E+05	No
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	1.3E+01	Yes
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	8.5E+04	Yes
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,500	6.8E+04	No
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,400	1.9E+04	No
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	5.1E+05	No
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	8.5E+04	No
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	3.9E+03	No
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,300	1.9E+04	No
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	5.1E+05	No
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,000	8.5E+04	No
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	6.8E+04	Yes
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	3.9E+03	No
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,400	1.9E+04	No
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	384,000	5.1E+05	No
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	8.5E+04	Yes
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	63,900	6.8E+04	No
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	820	3.9E+03	No
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	1.9E+04	No
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	299,000	5.1E+05	No
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	8.5E+04	No
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	1.9E+04	No
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	275,000	5.1E+05	No
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	1.3E+01	Yes
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,200	8.5E+04	No
116-D-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,220	3.9E+03	No
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,278	1.9E+04	No
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	320,612	5.1E+05	No
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67,123	8.5E+04	No
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	856	3.9E+03	No
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	5,983	1.9E+04	No
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	318,856	5.1E+05	No
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	76,278	8.5E+04	No
116-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	850	3.9E+03	No
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,881	1.9E+04	No
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	284,702	5.1E+05	No
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	56,601	8.5E+04	No
116-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,134	3.9E+03	No
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,365	1.9E+04	No
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324,766	5.1E+05	No
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	62,589	8.5E+04	No
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	51,204	6.8E+04	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,067	3.9E+03	No
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,014	1.9E+04	No
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	276,906	5.1E+05	No
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	52,464	8.5E+04	No
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,241	1.9E+04	No
116-D-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,417	3.9E+03	No
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,654	1.9E+04	No
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	1.0E+04	Yes
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	304,542	5.1E+05	No
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,268	8.5E+04	No
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	5,600	1.9E+04	No
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232,000	5.1E+05	No
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	22,100	8.5E+04	No
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	2,700	3.9E+03	No
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	10,100	1.9E+04	No
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	301,000	5.1E+05	No
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	7.8E+02	Yes
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	58,700	8.5E+04	No
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55,200	6.8E+04	No
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,049	3.9E+03	No
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,292	1.9E+04	No
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	288,834	5.1E+05	No
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,136	8.5E+04	No
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,035	3.9E+03	No
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,445	1.9E+04	No
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,317	5.1E+05	No
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,456	8.5E+04	No
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	598	3.9E+03	No
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,650	1.9E+04	No
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	310,000	5.1E+05	No
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	73,400	8.5E+04	No
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,142	3.9E+03	No
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,534	1.9E+04	No
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	336,163	5.1E+05	No
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59,625	8.5E+04	No
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	6.8E+04	Yes
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	1.9E+04	Yes
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	309,849	5.1E+05	No
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,591	8.5E+04	No
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3.9E+03	No
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,600	1.9E+04	No
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	5.1E+05	No
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56,300	8.5E+04	No
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	11,197	1.9E+04	No
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	292,940	5.1E+05	No
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	51,250	8.5E+04	No
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	7,334	1.9E+04	No
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	ug/kg	6,086	1.3E+04	No
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	323,773	5.1E+05	No
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	65,299	8.5E+04	No
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	ug/kg	1,274	3.9E+03	No
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	9,365	1.9E+04	No
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	1.3E+04	Yes
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	348,289	5.1E+05	No
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	1.7E+02	Yes
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	70,346	8.5E+04	No
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	6.8E+04	Yes
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,783	3.9E+03	No
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,235	1.9E+04	No
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	1.3E+04	Yes
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,029	5.1E+05	No
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	64,429	8.5E+04	No
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,213	6.8E+04	No
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,093	1.9E+04	No
118-D-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,233	3.9E+03	No
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,001	1.9E+04	No
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,161	5.1E+05	No
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,373	8.5E+04	No
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,700	3.9E+03	No
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9,458	1.9E+04	No
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	288,049	5.1E+05	No
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	59,298	8.5E+04	No
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,207	3.9E+03	No
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	10,857	1.9E+04	No
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	319,582	5.1E+05	No
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	55,100	8.5E+04	No
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3.9E+03	No
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,700	1.9E+04	No
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	293,000	5.1E+05	No
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	3.2E+03	Yes
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,500	8.5E+04	No
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,317	3.9E+03	No
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,490	1.9E+04	No
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	284,458	5.1E+05	No
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	8.5E+04	No
118-D-4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,546	3.9E+03	No
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,931	1.9E+04	No
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	352,925	5.1E+05	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,686	8.5E+04	No
118-D-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,189	3.9E+03	No
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,377	1.9E+04	No
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	342,788	5.1E+05	No
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,969	8.5E+04	No
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,118	6.8E+04	No
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.9E+03	No
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	4,660	5.6E+02	Yes
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	1.9E+04	Yes
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399,000	5.1E+05	No
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	8.5E+04	Yes
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59,600	6.8E+04	No
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,598	1.9E+04	No
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	275,204	5.1E+05	No
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,941	8.5E+04	No
118-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.9E+03	No
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,937	1.9E+04	No
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281,367	5.1E+05	No
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	8.5E+04	No
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,500	1.9E+04	No
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	5.1E+05	No
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,000	8.5E+04	No
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,800	3.9E+03	No
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,251	1.9E+04	No
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	323,193	5.1E+05	No
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	77,927	8.5E+04	No
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,050	1.9E+04	No
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328,312	5.1E+05	No
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	1.3E+01	Yes
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	68,233	8.5E+04	No
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,226	3.9E+03	No
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,080	1.9E+04	No
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,561	5.1E+05	No
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,964	8.5E+04	No
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.9E+03	No
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	1.9E+04	No
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	5.1E+05	No
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,000	8.5E+04	No
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,700	1.9E+04	No
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	1.3E+01	Yes
120-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,704	3.9E+03	No
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,075	1.9E+04	No
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339,488	5.1E+05	No
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	1.3E+01	Yes
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	77,181	8.5E+04	No
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,904	6.8E+04	No
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3.9E+03	No
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	4,500	1.9E+04	No
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316,000	5.1E+05	No
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	80,200	8.5E+04	No
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,900	1.9E+04	No
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12,500	1.3E+04	No
126-D-2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,077	3.9E+03	No
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,899	1.9E+04	No
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,316	5.1E+05	No
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	61,720	8.5E+04	No
126-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,042	3.9E+03	No
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,872	1.9E+04	No
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	354,940	5.1E+05	No
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	78,289	8.5E+04	No
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,412	6.8E+04	No
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	3.9E+03	Yes
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	1.9E+04	No
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	1.0E+04	Yes
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	5.1E+05	No
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,000	8.5E+04	No
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,000	6.8E+04	No
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,817	3.9E+03	No
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,003	1.9E+04	No
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	341,770	5.1E+05	No
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	7.8E+02	Yes
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	53,369	8.5E+04	No
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.9E+03	No
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,153	1.9E+04	No
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	277,702	5.1E+05	No
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	8.5E+04	No
130-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,642	3.9E+03	No
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,452	1.9E+04	No
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	306,041	5.1E+05	No
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	51,859	8.5E+04	No
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,218	6.8E+04	No
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3.9E+03	No
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,200	1.9E+04	No
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	305,000	5.1E+05	No
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82,200	8.5E+04	No
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,148	3.9E+03	No
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	13,222	1.9E+04	No
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	379,422	5.1E+05	No
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,839	8.5E+04	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
132-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,150	3.9E+03	No
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,667	1.9E+04	No
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	314,188	5.1E+05	No
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	1.3E+01	Yes
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	7.8E+02	Yes
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,877	8.5E+04	No
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,225	3.9E+03	No
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,496	1.9E+04	No
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	299,873	5.1E+05	No
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	1.3E+01	Yes
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	57,749	8.5E+04	No
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,325	3.9E+03	No
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,828	1.9E+04	No
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	273,291	5.1E+05	No
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	38,625	8.5E+04	No
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,248	3.9E+03	No
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	13,336	1.9E+04	No
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	282,971	5.1E+05	No
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	37,046	8.5E+04	No
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3.9E+03	No
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,400	1.9E+04	No
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	5.1E+05	No
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,500	8.5E+04	No
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	11,971	1.9E+04	No
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	268,018	5.1E+05	No
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	39,210	8.5E+04	No
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,900	1.9E+04	No
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,842	3.9E+03	No
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	1.9E+04	Yes
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344,089	5.1E+05	No
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	1.3E+01	Yes
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	1.7E+02	Yes
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68,020	8.5E+04	No
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	6.8E+04	Yes
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,597	1.9E+04	No
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,576	1.9E+04	No
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,100	1.9E+04	No
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.9E+03	No
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	1.9E+04	No
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	269,000	5.1E+05	No
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,500	8.5E+04	No
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	1.3E+05	Yes
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	3.9E+03	Yes
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,673	1.9E+04	No
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	1.0E+04	Yes
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,505	5.1E+05	No
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,779	8.5E+04	No
600-30_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,431	3.9E+03	No
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,154	1.9E+04	No
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	360,369	5.1E+05	No
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	49,219	8.5E+04	No
600-30_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,525	3.9E+03	No
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,014	1.9E+04	No
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	351,748	5.1E+05	No
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,064	8.5E+04	No
600-30_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,700	3.9E+03	No
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7,708	1.9E+04	No
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	346,688	5.1E+05	No
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	67,222	8.5E+04	No
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,460	3.9E+03	No
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	1.9E+04	No
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	382,000	5.1E+05	No
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,200	8.5E+04	No
628-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,771	3.9E+03	No
628-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,406	1.9E+04	No
628-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,235	5.1E+05	No
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	1.3E+01	Yes
628-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,113	8.5E+04	No
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	ug/kg	2,112	3.9E+03	No
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	ug/kg	12,445	1.9E+04	No
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	ug/kg	323,863	5.1E+05	No
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	1.3E+01	Yes
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	ug/kg	55,454	8.5E+04	No
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	ug/kg	2,241	3.9E+03	No
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	1.9E+04	Yes
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	ug/kg	328,755	5.1E+05	No
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	ug/kg	58,456	8.5E+04	No
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	ug/kg	54,972	6.8E+04	No
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,500	3.9E+03	No
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	1.9E+04	No
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	ug/kg	363,000	5.1E+05	No
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,400	8.5E+04	No
UPR-100-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,085	3.9E+03	No
UPR-100-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,103	1.9E+04	No
UPR-100-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	397,997	5.1E+05	No

Table 6. Comparison of Chemicals Exceeding SSLs in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
UPR-100-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,616	8.5E+04	No
UPR-100-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,067	3.9E+03	No
UPR-100-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,861	1.9E+04	No
UPR-100-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,220	5.1E+05	No
UPR-100-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,393	8.5E+04	No
UPR-100-D-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	744	3.9E+03	No
UPR-100-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,560	1.9E+04	No
UPR-100-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	254,000	5.1E+05	No
UPR-100-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,100	8.5E+04	No

Notes:

All data represent detected concentrations of the chemicals.

Exposure Point Concentrations greater than background are in bold font and highlighted yellow.

EPC = Exposure Point Concentration

pCi/g = pico Curie per gram

SSL = Soil screening level

µg/kg = Microgram per kilogram

Table 7. Comparison of Chemicals Exceeding SSLs in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,015	1.9E+04	No
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	6.5E+03	Yes
100-H-21_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	14,234	1.9E+04	No
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	1.0E+04	Yes
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	6.5E+03	Yes
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,826	1.9E+04	No
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	1.0E+04	Yes
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	1.3E+05	Yes
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	3.9E+03	Yes
100-H-28:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,000	1.9E+04	No
100-H-28:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	5.1E+05	No
100-H-28:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	8.5E+04	No
100-H-28:6_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,300	3.9E+03	No
100-H-28:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,800	1.9E+04	No
100-H-28:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	287,000	5.1E+05	No
100-H-28:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,200	8.5E+04	No
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	6.5E+03	Yes
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	3.9E+03	Yes
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,525	1.9E+04	No
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	1.0E+04	Yes
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,799	5.1E+05	No
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	1.3E+01	Yes
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,985	8.5E+04	No
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	2,630	3.9E+03	No
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	1.9E+04	Yes
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	322,000	5.1E+05	No
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	8.5E+04	No
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	1,930	3.9E+03	No
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	1.9E+04	Yes
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	309,000	5.1E+05	No
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	1.3E+01	Yes
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,600	8.5E+04	No
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	6.5E+03	Yes
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.9E+03	No
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	14,800	1.9E+04	No
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	253,000	5.1E+05	No
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	8.5E+04	No
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	6.8E+04	Yes
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	6.5E+03	Yes
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	1.9E+04	No
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	1.0E+04	Yes
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	5.1E+05	No
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	8.5E+04	No
100-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,026	3.9E+03	No
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,057	1.9E+04	No
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	263,324	5.1E+05	No
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	1.3E+01	Yes
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	8.5E+04	No
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	3.9E+03	Yes
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,500	1.9E+04	No
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	364,000	5.1E+05	No
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	3.2E+03	Yes
100-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,500	8.5E+04	No
100-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	62,500	6.8E+04	No
100-H-40_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,840	3.9E+03	No
100-H-40_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	1.9E+04	No
100-H-40_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	5.1E+05	No
100-H-40_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	8.5E+04	No
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	6.8E+04	Yes
100-H-41_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,110	3.9E+03	No
100-H-41_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,500	1.9E+04	No
100-H-41_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	281,000	5.1E+05	No
100-H-41_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	8.5E+04	No
100-H-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	584	3.9E+03	No
100-H-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,910	1.9E+04	No
100-H-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	227,000	5.1E+05	No
100-H-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,600	8.5E+04	No
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	3.9E+03	Yes
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	1.9E+04	Yes
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	1.0E+04	Yes
100-H-49:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	291,000	5.1E+05	No
100-H-49:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,900	8.5E+04	No
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	6.8E+04	Yes
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,199	1.9E+04	No
100-H-50_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,420	3.9E+03	No
100-H-50_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,100	1.9E+04	No
100-H-50_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	5.1E+05	No
100-H-50_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,200	8.5E+04	No
100-H-51:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,650	3.9E+03	No
100-H-51:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	1.9E+04	No
100-H-51:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	504,000	5.1E+05	No
100-H-51:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,300	8.5E+04	No
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	6.8E+04	Yes
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	3.9E+03	Yes
100-H-51:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,400	1.9E+04	No
100-H-51:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	5.1E+05	No
100-H-51:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	8.5E+04	No
100-H-53_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,310	3.9E+03	No
100-H-53_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,900	1.9E+04	No
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	1.0E+04	Yes
100-H-53_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	5.1E+05	No
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	4.7E+02	Yes
100-H-53_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	8.5E+04	No
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	6.8E+04	Yes

Table 7. Comparison of Chemicals Exceeding SSLs in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
100-H-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	3.9E+03	No
100-H-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,700	1.9E+04	No
100-H-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	264,000	5.1E+05	No
100-H-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,100	8.5E+04	No
100-H-8_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.9E+03	No
100-H-8_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	1.9E+04	No
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	1.0E+04	Yes
100-H-8_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	5.1E+05	No
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	1.3E+01	Yes
100-H-8_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	8.5E+04	No
100-H-8_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	53,500	6.8E+04	No
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,151	1.9E+04	No
116-H-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,458	3.9E+03	No
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,538	1.9E+04	No
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	258,053	5.1E+05	No
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	44,444	8.5E+04	No
116-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,169	3.9E+03	No
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,831	1.9E+04	No
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	270,919	5.1E+05	No
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,734	8.5E+04	No
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	6.5E+03	Yes
116-H-5_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,700	3.9E+03	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,981	1.9E+04	No
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	1.0E+04	Yes
116-H-5_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	280,936	5.1E+05	No
116-H-5_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	47,752	8.5E+04	No
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,042	1.9E+04	No
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	1.9E+04	Yes
116-H-9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,253	3.9E+03	No
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,945	1.9E+04	No
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	286,352	5.1E+05	No
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,911	8.5E+04	No
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	3.9E+03	Yes
118-H-1:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,618	1.9E+04	No
118-H-1:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	344,387	5.1E+05	No
118-H-1:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,281	8.5E+04	No
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,456	3.9E+03	No
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,810	1.9E+04	No
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	252,370	5.1E+05	No
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	7.8E+02	Yes
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,653	8.5E+04	No
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,763	3.9E+03	No
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,051	1.9E+04	No
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	254,153	5.1E+05	No
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,883	8.5E+04	No
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	3.9E+03	Yes
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	1.9E+04	Yes
118-H-1:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	5.1E+05	No
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	1.3E+01	Yes
118-H-1:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	8.5E+04	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,217	3.9E+03	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	12,039	1.9E+04	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	254,283	5.1E+05	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	42,420	8.5E+04	No
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,323	3.9E+03	No
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,971	1.9E+04	No
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	340,196	5.1E+05	No
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	44,407	8.5E+04	No
118-H-1:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.9E+03	No
118-H-1:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	1.9E+04	No
118-H-1:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	5.1E+05	No
118-H-1:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	37,100	8.5E+04	No
118-H-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,365	3.9E+03	No
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,049	1.9E+04	No
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	266,309	5.1E+05	No
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	41,613	8.5E+04	No
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	6.5E+03	Yes
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	3,104	3.9E+03	No
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,218	1.9E+04	No
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	1.0E+04	Yes
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	345,494	5.1E+05	No
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	45,491	8.5E+04	No
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	6.8E+04	Yes
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,578	3.9E+03	No
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,622	1.9E+04	No
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	300,387	5.1E+05	No
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,329	8.5E+04	No
118-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,630	3.9E+03	No
118-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,110	1.9E+04	No
118-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	255,000	5.1E+05	No
118-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,300	8.5E+04	No
118-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,534	3.9E+03	No
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,715	1.9E+04	No
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,088	5.1E+05	No
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,964	8.5E+04	No
118-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,440	3.9E+03	No
118-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,900	1.9E+04	No
118-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	222,000	5.1E+05	No
118-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,000	8.5E+04	No
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	2,987	3.9E+03	No
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	9,780	1.9E+04	No
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	258,296	5.1E+05	No
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	48,115	8.5E+04	No

Table 7. Comparison of Chemicals Exceeding SSLs in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	6.8E+04	Yes
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	3.9E+03	Yes
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,718	1.9E+04	No
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	276,172	5.1E+05	No
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,149	8.5E+04	No
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,290	3.9E+03	No
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,500	1.9E+04	No
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	257,000	5.1E+05	No
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,400	8.5E+04	No
118-H-6:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	809	3.9E+03	No
118-H-6:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,710	1.9E+04	No
118-H-6:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	265,613	5.1E+05	No
118-H-6:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	45,939	8.5E+04	No
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	633	3.9E+03	No
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,218	1.9E+04	No
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	251,118	5.1E+05	No
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,568	8.5E+04	No
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	6.5E+03	Yes
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,401	3.9E+03	No
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,672	1.9E+04	No
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	1.0E+04	Yes
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	338,381	5.1E+05	No
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	8.5E+04	No
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	3.9E+03	Yes
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,953	1.9E+04	No
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	310,415	5.1E+05	No
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	1.3E+01	Yes
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,432	8.5E+04	No
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,892	3.9E+03	No
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	10,827	1.9E+04	No
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	281,265	5.1E+05	No
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,611	8.5E+04	No
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	6.5E+03	Yes
118-H-6:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,710	3.9E+03	No
118-H-6:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,000	1.9E+04	No
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	1.0E+04	Yes
118-H-6:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	311,000	5.1E+05	No
118-H-6:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	49,400	8.5E+04	No
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	6.5E+03	Yes
128-H-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,799	3.9E+03	No
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,085	1.9E+04	No
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	1.0E+04	Yes
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,886	5.1E+05	No
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	47,044	8.5E+04	No
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	6.5E+03	Yes
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	3.9E+03	Yes
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,634	1.9E+04	No
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	1.0E+04	Yes
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	298,334	5.1E+05	No
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,141	8.5E+04	No
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	3.9E+03	Yes
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,369	1.9E+04	No
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	1.0E+04	Yes
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	319,234	5.1E+05	No
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	1.3E+01	Yes
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	51,297	8.5E+04	No
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,534	3.9E+03	No
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,741	1.9E+04	No
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	270,578	5.1E+05	No
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	40,807	8.5E+04	No
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	6.5E+03	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Boron	7440-42-8	ug/kg	3,306	3.9E+03	No
128-H-1_Staging pile area footprint_2	non-Rad	Chromium	7440-47-3	ug/kg	15,220	1.9E+04	No
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	1.0E+04	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Manganese	7439-96-5	ug/kg	339,768	5.1E+05	No
128-H-1_Staging pile area footprint_2	non-Rad	Vanadium	7440-62-2	ug/kg	46,690	8.5E+04	No
128-H-1_Staging pile area footprint_6	non-Rad	Boron	7440-42-8	ug/kg	1,747	3.9E+03	No
128-H-1_Staging pile area footprint_6	non-Rad	Chromium	7440-47-3	ug/kg	14,174	1.9E+04	No
128-H-1_Staging pile area footprint_6	non-Rad	Manganese	7439-96-5	ug/kg	333,857	5.1E+05	No
128-H-1_Staging pile area footprint_6	non-Rad	Vanadium	7440-62-2	ug/kg	40,715	8.5E+04	No
128-H-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,800	1.9E+04	No
128-H-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	329,000	5.1E+05	No
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	7.8E+02	Yes
128-H-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,500	8.5E+04	No
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	6.5E+03	Yes
128-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,700	3.9E+03	No
128-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,900	1.9E+04	No
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	1.0E+04	Yes
128-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	5.1E+05	No
128-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,500	8.5E+04	No
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	6.5E+03	Yes
1607-H1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	3,760	3.9E+03	No
1607-H1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,120	1.9E+04	No
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	1.0E+04	Yes
1607-H1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	299,830	5.1E+05	No
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	7.8E+02	Yes
1607-H1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	8.5E+04	No
1607-H1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,052	3.9E+03	No
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,089	1.9E+04	No
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,367	5.1E+05	No
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	8.5E+04	No
1607-H1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,800	1.9E+04	No
1607-H1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	228,000	5.1E+05	No

Table 7. Comparison of Chemicals Exceeding SSLs in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) to Background

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	EPC > Background
1607-H1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,500	8.5E+04	No
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	6.5E+03	**Yes**
1607-H2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,300	1.9E+04	No
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	1.0E+04	**Yes**
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	1.9E+04	**Yes**
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	1.0E+04	**Yes**
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	1.3E+01	**Yes**
1607-H2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	1.9E+04	No
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	3.9E+03	**Yes**
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	1.9E+04	**Yes**
1607-H3_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,125	5.1E+05	No
1607-H3_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,141	8.5E+04	No
1607-H3_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,058	6.8E+04	No
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	3.9E+03	No
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,104	1.9E+04	No
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	287,009	5.1E+05	No
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	51,055	8.5E+04	No
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,150	6.8E+04	No
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,136	3.9E+03	No
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,587	1.9E+04	No
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	256,331	5.1E+05	No
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	42,063	8.5E+04	No
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	1.9E+04	No
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	1.0E+04	**Yes**
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	6.5E+03	**Yes**
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	3.9E+03	**Yes**
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,125	1.9E+04	No
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	1.0E+04	**Yes**
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	352,409	5.1E+05	No
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	7.8E+02	**Yes**
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	41,178	8.5E+04	No
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	64,969	6.8E+04	No
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	6.5E+03	**Yes**
600-151_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,271	3.9E+03	No
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,221	1.9E+04	No
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	1.0E+04	**Yes**
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	359,399	5.1E+05	No
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	38,407	8.5E+04	No
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	6.5E+03	**Yes**
600-151_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,612	3.9E+03	No
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,175	1.9E+04	No
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	1.0E+04	**Yes**
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	323,716	5.1E+05	No
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	38,454	8.5E+04	No
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	62,833	6.8E+04	No
600-152_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,785	3.9E+03	No
600-152_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,730	1.9E+04	No
600-152_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	299,188	5.1E+05	No
600-152_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,512	8.5E+04	No

Table 8. Summary of Chemicals in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background

Waste Site/Decision Unit	Exceedances based on comparisons to SSLs and Background[1]	
	Plant/Invertebrate SSL-based HQ	Wildlife SSL-based HQ
100-D-13_Shallow_Focused	Boron (9.8) Selenium (1.7) Zinc (2.4)	Zinc (1.8)
100-D-15_Shallow_2	Zinc (1.9)	Zinc (1.4)
100-D-28:1_Shallow	Mercury (5.7) Selenium (3.3)	--
100-D-29_Shallow	Boron (10.7)	--
100-D-31:3, 100-D-31:4_Overburden	Selenium (2.3)	--
100-D-31:5_Overburden	Boron (40.2) Mercury (1.4) Selenium (3.3)	--
100-D-31:5_Shallow	Boron (21.0) Mercury (2.4) Selenium (2.9) Zinc (1.8)	Zinc (1.3)
100-D-31:6_Overburden	Boron (12.0) Mercury (8.7)	--
100-D-31:6_Shallow	Boron (11.7) Mercury (5.8)	--
100-D-31:8_Shallow_Focused_1	Vanadium (47.5)	Vanadium (3.0)
100-D-31:8_Shallow_Focused_2	Barium (4.8) Boron (338.0) Mercury (1.2) Molybdenum (1.2) Zinc (1.7)	Barium (1.2) Boron (1.3) Zinc (1.2)
100-D-42, 100-D-43, 100-D-45_Shallow	Copper (1.8)	--
100-D-47_Shallow_Focused	Vanadium (42.9)	Vanadium (2.8)
100-D-56:1_Overburden	Boron (11.3) Selenium (4.0)	Selenium (1.1)
100-D-56:1_Shallow	Selenium (3.3)	--
100-D-56:2_Shallow_Focused	Chromium (73.3)	--
100-D-61_Shallow	Boron (22.3) Selenium (2.0)	--
100-D-7_Shallow_1	Selenium (1.6)	--
100-D-7_Staging pile area footprint	Mercury (3.0)	--
100-D-70_Shallow_Focused	Copper (1.5) Zinc (1.6)	Zinc (1.2)
100-D-82_Shallow_Focused	Lead (2.7)	Lead (3.8)
100-D-83:4_Shallow_Focused	Mercury (9.5)	--
100-D-84:1_Shallow_Focused	Mercury (1.2) Vanadium (47.2)	Vanadium (3.0)
100-D-87_Shallow_Focused	Zinc (1.7)	Zinc (1.2)
100-D-88_Shallow_Focused	Vanadium (52.0)	Vanadium (3.3)
100-D-94_Shallow_Focused	Mercury (5.8)	--
116-D-8_Shallow	--	Lead (1.2)
116-D-8_Shallow_Focused_2	Selenium (2.3)	--
116-DR-5_Overburden	Zinc (1.5)	Zinc (1.1)
116-DR-5_Shallow	Chromium (63.6)	--
116-DR-8_Overburden_3	Lithium (13.9) Silver (1.1) Zinc (1.5)	Zinc (1.1)
116-DR-8_Shallow	Lithium (35.2)	--
118-D-1_Shallow_Focused	Total_U_Isotopes (1.0)	--

Table 8. Summary of Chemicals in 100-D OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background

Waste Site/Decision Unit	Exceedances based on comparisons to SSLs and Background[1]	
	Plant/Invertebrate SSL-based HQ	Wildlife SSL-based HQ
118-D-4_Shallow_Focused	Cadmium (1.2) Chromium (120.3) Vanadium (46.2)	Cadmium (2.9) Chromium (1.3) Vanadium (3.0)
118-D-6:4_Shallow_2	Mercury (12.0)	--
118-DR-2:2_Shallow	Mercury (1.6)	--
120-D-2_Shallow	Mercury (1.1)	--
126-D-2_Shallow_Focused	Boron (15.8) Lead (1.4)	Lead (2.0)
128-D-2_Shallow_1	Selenium (2.1)	--
132-D-1_Shallow	Mercury (10.0) Selenium (1.7)	--
132-D-1_Staging Pile Area Footprint	Mercury (6.8)	--
1607-D2-2_Shallow	Chromium (49.4) Mercury (4.8) Silver (5.9) Zinc (1.8)	Zinc (1.4)
1607-D5_Shallow	Barium (2.3) Boron (139.0) Lead (2.1)	Lead (3.0)
628-3_Shallow	Mercury (1.6)	--
628-3_Staging Pile Area_2	Mercury (1.1)	--
628-3_Staging Pile Area_3	Chromium (102.9)	Chromium (1.1)

Notes:

1 Analytes with exposure point concentrations consistent with background are excluded in these results.

HQ = Hazard Quotient
NB = No background
SSL = Soil screening level

Table 9. Summary of Chemicals in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background

Waste Site/Decision Unit	Exceedances based on comparisons to SSLs and Background[1]	
	Plant/Invertebrate SSL-based HQ	Wildlife SSL-based HQ
100-H-21_Overburden	Arsenic (1.1)	Lead (1.0)
100-H-21_Shallow	Arsenic (1.3)	Lead (1.1)
100-H-28:1_Shallow_Focused	Barium (1.6) Boron (132.8)	--
100-H-3_Shallow	Arsenic (1.5) Boron (9.4) Mercury (2.6)	Lead (1.3)
100-H-35_Shallow_Focused_1	Chromium (51.8)	--
100-H-35_Shallow_Focused_2	Chromium (52.3) Mercury (1.0)	--
100-H-35_Shallow_Focused_3	Arsenic (1.9) Zinc (1.9)	Zinc (1.4)
100-H-37_Shallow_Focused	Arsenic (1.3) Lead (1.1)	Lead (1.5)
100-H-4_Shallow	Mercury (4.1)	--
100-H-4_Shallow_Focused	Boron (38.8) Uranium (2.0)	--
100-H-40_Shallow_Focused	Zinc (1.7)	Zinc (1.2)
100-H-49:2_Shallow_Focused	Boron (11.3) Chromium (47.0) Zinc (1.9)	Lead (1.3) Zinc (1.4)
100-H-51:4_Shallow_Focused	Zinc (1.6)	Zinc (1.2)
100-H-51:5_Shallow_Focused	Boron (52.6)	--
100-H-53_Shallow_Focused	Molybdenum (1.9) Zinc (1.6)	Lead (1.0) Zinc (1.2)
100-H-8_Shallow_Focused	Mercury (3.1)	Lead (1.3)
116-H-5_Staging Pile Area Footprint	Arsenic (1.0)	Lead (1.3)
116-H-7_Shallow	Chromium (49.1)	--
118-H-1:1_Overburden	Boron (21.1)	--
118-H-1:1_Shallow_1	Selenium (1.9)	--
118-H-1:1_Shallow_Focused	Boron (8.3) Chromium (55.0) Mercury (2.0)	--
118-H-3_Shallow_1	Arsenic (1.6) Lead (1.2) Zinc (2.7)	Lead (1.6) Zinc (2.0)
118-H-4_Staging Pile Area	Zinc (1.5)	Zinc (1.1)
118-H-5_Shallow	Boron (12.5)	--
118-H-6:5_Shallow_1	Arsenic (4.0) Lead (3.4)	Lead (4.8)
118-H-6:5_Shallow_2	Boron (24.4) Mercury (1.7)	--
118-H-6:5_Shallow_Focused	Arsenic (2.7) Lead (2.3)	Lead (3.2)
128-H-1_Overburden	Arsenic (4.1) Lead (5.1)	Lead (7.1)
128-H-1_Shallow_3	Arsenic (1.1) Boron (9.8) Lead (1.3)	Lead (1.8)
128-H-1_Shallow_4	Boron (8.9) Mercury (10.2)	Lead (1.3)
128-H-1_Staging pile area footprint_2	Arsenic (5.4) Lead (2.5)	Lead (3.5)

Table 9. Summary of Chemicals in 100-H OU Surface Soils (0 to 15 feet [0 to 4.6m]) Exceeding SSLs and Background

Waste Site/Decision Unit	Exceedances based on comparisons to SSLs and Background[1]	
	Plant/Invertebrate SSL-based HQ	Wildlife SSL-based HQ
128-H-2_Shallow_Focused	Selenium (2.3)	--
128-H-3_Shallow_Focused	Arsenic (1.1) Lead (1.9)	Lead (2.6)
1607-H1_Overburden	Arsenic (1.4) Lead (1.2) Selenium (1.9)	Lead (1.7)
1607-H2_Overburden	Arsenic (1.6) Lead (1.1)	Lead (1.5)
1607-H2_Shallow	Chromium (510.0) Mercury (25.9)	Chromium (5.3) Lead (1.1) Mercury (1.4)
1607-H3_Overburden	Boron (9.5) Chromium (124.5)	Chromium (1.3)
1607-H4_Shallow	--	Lead (1.2)
600-151_Shallow_1	Arsenic (3.2) Boron (9.7) Lead (2.5) Selenium (1.8)	Lead (3.6)
600-151_Shallow_2	Arsenic (6.0) Lead (5.3)	Lead (7.5)
600-151_Shallow_3	Arsenic (5.4) Lead (5.5)	Lead (7.8)

Notes:

1 Analytes with exposure point concentrations consistent with background are excluded in these results.

HQ = Hazard Quotient

NB = No background

SSL = Soil screening level

Table 10. Ecological PRG Comparisons for 100-D OU Waste Site Decision Units

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate PRG	Hazard Quotient	Wildlife PRG	Hazard Quotient
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	2.9E+04	1.7E-01	3.2E+04	1.5E-01
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	2.0E+03	4.4E-01	1.4E+03	6.2E-01
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	6.2E+05	2.0E-01	8.6E+05	1.4E-01
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	6.2E+05	1.5E-01	8.6E+05	1.1E-01
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	3.0E+02	**1.9E+00**	1.6E+03	3.7E-01
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	2.0E+03	8.4E-01	1.4E+03	**1.2E+00**
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	2.9E+04	1.9E-01	3.2E+04	1.7E-01
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	2.0E+03	5.9E-01	1.4E+03	8.4E-01
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	2.9E+04	7.0E-01	3.2E+04	6.3E-01
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	3.0E+02	4.7E-01	1.6E+03	9.1E-02
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	2.0E+03	8.6E-01	1.4E+03	**1.2E+00**
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	2.9E+04	3.7E-01	3.2E+04	3.3E-01
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	3.0E+02	8.0E-01	1.6E+03	1.5E-01
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	2.0E+03	7.4E-01	1.4E+03	**1.1E+00**
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	6.2E+05	1.4E-01	8.6E+05	1.1E-01
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	2.9E+04	2.1E-01	3.2E+04	1.9E-01
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	3.0E+02	**2.9E+00**	1.6E+03	5.6E-01
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	2.9E+04	2.1E-01	3.2E+04	1.8E-01
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	3.0E+02	**1.9E+00**	1.6E+03	3.7E-01
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	8.9E+04	**1.1E+00**	4.3E+04	**2.2E+00**
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	3.6E+05	**4.4E+00**	1.7E+06	9.3E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	2.9E+04	**5.9E+00**	3.2E+04	**5.3E+00**
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	3.0E+02	4.0E-01	1.6E+03	7.7E-02
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	2.0E+03	**1.2E+00**	5.7E+03	4.0E-01
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	6.2E+05	1.3E-01	8.6E+05	9.7E-02
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	5.8E+04	**1.6E+00**	1.9E+05	4.7E-01
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	8.9E+04	9.6E-01	4.3E+04	**2.0E+00**
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	2.9E+04	2.0E-01	3.2E+04	1.8E-01
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	2.0E+03	**1.0E+00**	1.4E+03	**1.5E+00**
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	2.0E+03	8.4E-01	1.4E+03	**1.2E+00**
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	1.5E+05	2.0E-01	1.1E+05	2.7E-01
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	2.9E+04	3.9E-01	3.2E+04	3.5E-01
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	2.0E+03	5.2E-01	1.4E+03	7.3E-01
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	2.0E+03	4.1E-01	1.4E+03	5.8E-01
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	3.0E+02	**1.0E+00**	1.6E+03	2.0E-01
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	5.8E+04	**1.3E+00**	1.9E+05	3.8E-01
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	6.2E+05	1.3E-01	8.6E+05	9.2E-02
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	1.7E+06	7.9E-02	1.6E+05	8.6E-01
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	3.0E+02	**3.2E+00**	1.6E+03	6.1E-01
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	3.0E+02	4.0E-01	1.6E+03	7.7E-02
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	8.9E+04	**1.1E+00**	4.3E+04	**2.2E+00**
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	6.2E+05	1.4E-01	8.6E+05	9.8E-02
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	8.9E+04	**1.2E+00**	4.3E+04	**2.4E+00**
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	3.0E+02	**1.9E+00**	1.6E+03	3.7E-01
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	1.7E+06	2.4E-02	1.6E+05	2.6E-01
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	2.0E+03	5.9E-01	1.4E+03	8.4E-01
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	6.2E+05	1.2E-01	8.6E+05	8.9E-02
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	1.5E+05	1.7E-01	1.1E+05	2.3E-01
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	3.5E+04	7.9E-01	1.7E+06	1.7E-02
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	3.0E+03	7.4E-01	9.8E+05	2.2E-03
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	6.2E+05	1.2E-01	8.6E+05	8.5E-02
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	3.5E+04	**2.0E+00**	1.7E+06	4.2E-02
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	1.0E+05	5.1E-02	4.0E+04	1.3E-01
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	4,660	9.8E+03	4.7E-01	2.9E+04	1.6E-01
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	1.5E+05	3.2E-01	1.1E+05	4.4E-01
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	8.9E+04	**1.0E+00**	4.3E+04	**2.1E+00**
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	3.0E+02	**4.0E+00**	1.6E+03	7.7E-01
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	3.0E+02	5.5E-01	1.6E+03	1.1E-01
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	3.0E+02	3.7E-01	1.6E+03	7.1E-02
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	2.9E+04	2.8E-01	3.2E+04	2.5E-01
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	1.7E+06	4.2E-02	1.6E+05	4.6E-01
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	2.0E+03	5.5E-01	1.4E+03	7.7E-01
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	3.0E+02	**3.3E+00**	1.6E+03	6.4E-01
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	2.0E+03	4.3E-01	1.4E+03	6.0E-01
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	3.0E+02	**2.3E+00**	1.6E+03	4.4E-01
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	1.5E+05	1.3E-01	1.1E+05	1.8E-01
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	3.0E+02	**1.6E+00**	1.6E+03	3.1E-01
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	3.0E+03	**4.0E+00**	9.8E+05	1.2E-02
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	6.2E+05	1.5E-01	8.6E+05	1.1E-01
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	3.6E+05	**2.2E+00**	1.7E+06	4.6E-01
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	2.9E+04	**2.4E+00**	3.2E+04	**2.2E+00**
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	1.7E+06	6.3E-02	1.6E+05	6.8E-01
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	3.0E+02	5.5E-01	1.6E+03	1.1E-01
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	3.0E+02	3.8E-01	1.6E+03	7.3E-02
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	1.5E+05	2.8E-01	1.1E+05	3.8E-01

Notes:

PRG = Preliminary Remediation Goal

µg/kg = Microgram per kilogram

Table 11 Ecological PRG Comparisons for 100-H OU Waste Site Decision Units

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Plant/ Invertebrate PRG	Hazard Quotient	Wildlife PRG	Hazard Quotient
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	1.3E+05	9.0E-02	1.3E+05	9.0E-02
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	1.7E+06	2.1E-02	1.6E+05	2.3E-01
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	1.3E+05	1.0E-01	1.3E+05	1.1E-01
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	1.7E+06	2.4E-02	1.6E+05	2.6E-01
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	3.6E+05	**1.5E+00**	1.7E+06	3.2E-01
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	2.9E+04	**2.3E+00**	3.2E+04	**2.1E+00**
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	1.3E+05	1.2E-01	1.3E+05	1.2E-01
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	2.9E+04	1.6E-01	3.2E+04	1.5E-01
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	1.7E+06	2.8E-02	1.6E+05	3.1E-01
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	3.0E+02	8.6E-01	1.6E+03	1.7E-01
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	1.5E+05	1.4E-01	1.1E+05	1.9E-01
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	1.5E+05	1.4E-01	1.1E+05	1.9E-01
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	3.0E+02	3.4E-01	1.6E+03	6.5E-02
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	1.3E+05	1.5E-01	1.3E+05	1.5E-01
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	6.2E+05	1.5E-01	8.6E+05	1.1E-01
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	1.3E+05	1.0E-01	1.3E+05	1.0E-01
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	1.7E+06	3.2E-02	1.6E+05	3.5E-01
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	3.0E+02	**1.4E+00**	1.6E+03	2.6E-01
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	2.9E+04	6.8E-01	3.2E+04	6.1E-01
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	1.0E+05	1.0E-01	4.0E+04	2.5E-01
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	6.2E+05	1.3E-01	8.6E+05	9.7E-02
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	2.9E+04	2.0E-01	3.2E+04	1.8E-01
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	1.5E+05	1.3E-01	1.1E+05	1.7E-01
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	1.7E+06	2.7E-02	1.6E+05	3.0E-01
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	6.2E+05	1.6E-01	8.6E+05	1.1E-01
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	6.2E+05	1.3E-01	8.6E+05	9.2E-02
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	2.9E+04	9.2E-01	3.2E+04	8.2E-01
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	1.7E+06	2.1E-02	1.6E+05	2.3E-01
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	2.0E+03	**1.9E+00**	5.7E+03	6.7E-01
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	6.2E+05	1.3E-01	8.6E+05	9.3E-02
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	1.7E+06	2.8E-02	1.6E+05	3.0E-01
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	3.0E+02	**1.0E+00**	1.6E+03	2.0E-01
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	1.3E+05	8.0E-02	1.3E+05	8.1E-02
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	1.7E+06	2.7E-02	1.6E+05	2.9E-01
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	1.5E+05	1.3E-01	1.1E+05	1.8E-01
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	2.9E+04	3.7E-01	3.2E+04	3.3E-01
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	2.0E+03	5.0E-01	1.4E+03	7.0E-01
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	2.9E+04	1.5E-01	3.2E+04	1.3E-01
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	1.5E+05	1.5E-01	1.1E+05	2.0E-01
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	3.0E+02	6.7E-01	1.6E+03	1.3E-01
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	1.3E+05	1.2E-01	1.3E+05	1.3E-01
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	1.7E+06	3.4E-02	1.6E+05	3.7E-01
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	6.2E+05	2.1E-01	8.6E+05	1.6E-01
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	6.2E+05	1.2E-01	8.6E+05	8.5E-02
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	2.9E+04	2.2E-01	3.2E+04	2.0E-01
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	1.3E+05	3.1E-01	1.3E+05	3.1E-01
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	1.7E+06	1.0E-01	1.6E+05	**1.1E+00**
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	2.9E+04	4.3E-01	3.2E+04	3.8E-01
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	3.0E+02	5.6E-01	1.6E+03	1.1E-01
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	1.3E+05	2.1E-01	1.3E+05	2.1E-01
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	1.7E+06	6.7E-02	1.6E+05	7.3E-01
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	1.3E+05	3.2E-01	1.3E+05	3.2E-01
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	1.7E+06	1.5E-01	1.6E+05	**1.6E+00**
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	1.3E+05	8.3E-02	1.3E+05	8.4E-02
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	2.9E+04	1.7E-01	3.2E+04	1.5E-01
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	1.7E+06	3.9E-02	1.6E+05	4.2E-01
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	2.9E+04	1.6E-01	3.2E+04	1.4E-01
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	1.7E+06	2.6E-02	1.6E+05	2.9E-01
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	3.0E+02	**3.4E+00**	1.6E+03	6.6E-01
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	1.3E+05	4.2E-01	1.3E+05	4.3E-01
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	1.7E+06	7.3E-02	1.6E+05	8.0E-01
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	2.0E+03	5.9E-01	1.4E+03	8.4E-01
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	1.3E+05	8.6E-02	1.3E+05	8.7E-02
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	1.7E+06	5.5E-02	1.6E+05	6.0E-01
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	1.3E+05	1.1E-01	1.3E+05	1.1E-01
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	1.7E+06	3.6E-02	1.6E+05	3.9E-01
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	2.0E+03	4.8E-01	1.4E+03	6.8E-01
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	1.3E+05	1.2E-01	1.3E+05	1.2E-01
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	1.7E+06	3.2E-02	1.6E+05	3.5E-01
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	1.5E+05	**1.4E+00**	1.1E+05	**1.9E+00**
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	1.7E+06	2.2E-02	1.6E+05	2.4E-01
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	3.0E+02	**8.6E+00**	1.6E+03	**1.7E+00**
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	2.9E+04	1.7E-01	3.2E+04	1.5E-01
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	1.5E+05	3.3E-01	1.1E+05	4.6E-01
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	1.7E+06	2.6E-02	1.6E+05	2.8E-01
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	1.3E+05	2.5E-01	1.3E+05	2.5E-01
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	2.9E+04	1.7E-01	3.2E+04	1.5E-01
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	1.7E+06	7.5E-02	1.6E+05	8.1E-01
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	2.0E+03	4.7E-01	1.4E+03	6.6E-01
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	1.3E+05	4.7E-01	1.3E+05	4.7E-01
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	1.7E+06	1.6E-01	1.6E+05	**1.7E+00**
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	1.3E+05	4.2E-01	1.3E+05	4.3E-01
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	1.7E+06	1.6E-01	1.6E+05	**1.8E+00**

Notes:

PRG = Preliminary Remediation Goal

µg/kg = Microgram per kilogram

Table 12. Summary of 100-D OU Waste Sites Ecological Evaluation Based on PRGs for Surface Soils (0 to 15 feet [0 to 4.6m])

Waste Site/Decision Unit	Exceedances based on comparisons to PRGs	
	Plant/Invertebrate HQ	Wildlife HQ
100-D-28:1_Shallow	Mercury (1.9)	Selenium (1.2)
100-D-31:5_Overburden	--	Selenium (1.2)
100-D-31:5_Shallow	--	Selenium (1.0)
100-D-31:6_Overburden	Mercury (2.9)	--
100-D-31:6_Shallow	Mercury (1.9)	--
100-D-31:8_Shallow_Focused_1	Vanadium (1.1)	Vanadium (2.2)
100-D-31:8_Shallow_Focused_2	Barium (4.4) Boron (5.9) Molybdenum (1.2)	Boron (5.3)
100-D-42, 100-D-43, 100-D-45_Shallow	Copper (1.6)	--
100-D-47_Shallow_Focused	--	Vanadium (2.0)
100-D-56:1_Overburden	Selenium (1.0)	Selenium (1.5)
100-D-56:1_Shallow	--	Selenium (1.2)
100-D-7_Staging pile area footprint	Mercury (1.0)	--
100-D-70_Shallow_Focused	Copper (1.3)	--
100-D-83:4_Shallow_Focused	Mercury (3.2)	--
100-D-84:1_Shallow_Focused	Vanadium (1.1)	Vanadium (2.2)
100-D-88_Shallow_Focused	Vanadium (1.2)	Vanadium (2.4)
100-D-94_Shallow_Focused	Mercury (1.9)	--
116-DR-8_Shallow	Lithium (2.0)	--
118-D-4_Shallow_Focused	Vanadium (1.0)	Vanadium (2.1)
118-D-6:4_Shallow_2	Mercury (4.0)	--
132-D-1_Shallow	Mercury (3.3)	--
132-D-1_Staging Pile Area Footprint	Mercury (2.3)	--
1607-D2-2_Shallow	Mercury (1.6) Silver (3.9)	--
1607-D5_Shallow	Barium (2.2) Boron (2.4)	Boron (2.2)

Notes:
HQ = Hazard Quotient
PRG = Preliminary Remediation Goal

Table 13. Summary of 100-H OU Waste Sites Ecological Evaluation Based on PRGs for Surface Soils (0 to 15 feet [0 to 4.6m])

Waste Site/Decision Unit	Exceedances based on comparisons to PRGs	
	Plant/Invertebrate HQ	Wildlife HQ
100-H-28:1_Shallow_Focused	Barium (1.5) Boron (2.3)	Boron (2.1)
100-H-4_Shallow	Mercury (1.4)	--
100-H-53_Shallow_Focused	Molybdenum (1.9)	--
100-H-8_Shallow_Focused	Mercury (1.0)	--
118-H-6:5_Shallow_1	--	Lead (1.1)
128-H-1_Overburden	--	Lead (1.6)
128-H-1_Shallow_4	Mercury (3.4)	--
1607-H2_Shallow	Chromium (1.4) Mercury (8.6)	Chromium (1.9) Mercury (1.7)
600-151_Shallow_2	--	Lead (1.7)
600-151_Shallow_3	--	Lead (1.8)

Notes:

HQ = Hazard Quotient

PRG = Preliminary Remediation Goal

Table 14. Wildlife Exposure to Inorganic Chemicals through Drinking from Seeps in the 100-D Riparian Area

Analyte Name	Seeps EPC (mg/L)	Mammal LOAEL TRV (mg/kg/d)	Bird LOAEL TRV (mg/kg/d)	Elk Drinking Water Dose (mg/kg-BW/d)	Elk LOAEL HQ	Badger Drinking Water Dose (mg/kg-BW/d)	Badger LOAEL HQ	Bat Drinking Water Dose (mg/kg-BW/d)	Bat LOAEL HQ	Killdeer Drinking Water Dose (mg/kg-BW/d)	Killdeer LOAEL HQ	Swallow Drinking Water Dose (mg/kg-BW/d)	Swallow LOAEL HQ	Quail Drinking Water Dose (mg/kg-BW/d)	Quail LOAEL HQ	Meadowlark Drinking Water Dose (mg/kg-BW/d)	Meadowlark LOAEL HQ	Hawk Drinking Water Dose (mg/kg-BW/d)	Hawk LOAEL HQ
Unfiltered Samples																			
Aluminum	2.10E+01	1.93E+01	1.10E+02	9.17E-01	**4.75E-02**	1.27E+00	**6.60E-02**	1.64E+00	**8.52E-02**	2.18E+00	**1.99E-02**	3.19E+00	**2.91E-02**	1.64E+00	**1.49E-02**	9.31E-01	8.49E-03	8.81E-01	8.03E-03
Antimony	2.03E-04	5.90E-01	NA	8.84E-06	1.50E-05	1.23E-05	2.08E-05	1.58E-05	2.69E-05	2.10E-05	NA	3.07E-05	NA	1.58E-05	NA	8.98E-06	NA	8.49E-06	NA
Arsenic	1.44E-03	1.66E+00	4.03E+01	6.30E-05	3.79E-05	8.75E-05	5.27E-05	1.13E-04	6.80E-05	1.50E-04	3.72E-06	2.19E-04	5.43E-06	1.12E-04	2.79E-06	6.40E-05	1.59E-06	6.05E-05	1.50E-06
Barium	1.14E-01	7.50E+01	4.17E+01	4.98E-03	6.64E-05	6.92E-03	9.22E-05	8.92E-03	1.19E-04	1.18E-02	2.84E-04	1.73E-02	4.15E-04	8.89E-03	2.13E-04	5.06E-03	1.21E-04	4.78E-03	1.15E-04
Beryllium	3.10E-04	5.32E-01	NA	1.35E-05	2.54E-05	1.88E-05	3.53E-05	2.43E-05	4.56E-05	3.22E-05	NA	4.70E-05	NA	2.42E-05	NA	1.37E-05	NA	1.30E-05	NA
Bromide	1.00E-01	NA	NA	4.36E-03	NA	6.06E-03	NA	7.82E-03	NA	1.04E-02	NA	1.52E-02	NA	7.79E-03	NA	4.43E-03	NA	4.19E-03	NA
Cadmium	3.27E-04	1.00E+01	1.47E+00	1.43E-05	1.43E-06	1.98E-05	1.98E-06	2.56E-05	2.56E-06	3.39E-05	2.31E-05	4.96E-05	3.37E-05	2.55E-05	1.73E-05	1.45E-05	9.86E-06	1.37E-05	9.32E-06
Calculated Total Uranium	1.77E-03	6.13E+00	1.60E+01	7.70E-05	1.26E-05	1.07E-04	1.75E-05	1.38E-04	2.25E-05	1.83E-04	1.15E-05	2.66E-04	1.67E-05	1.38E-04	8.60E-06	7.83E-05	4.89E-06	7.40E-05	4.63E-06
Chloride	1.33E+01	NA	NA	5.79E-01	NA	8.05E-01	NA	1.04E+00	NA	1.38E+00	NA	2.01E+00	NA	1.03E+00	NA	5.88E-01	NA	5.56E-01	NA
Chloroform	4.10E-03	4.10E+01	3.44E+01	1.79E-04	4.36E-06	2.49E-04	6.06E-06	3.21E-04	7.82E-06	4.25E-04	1.24E-05	6.22E-04	1.81E-05	3.19E-04	9.29E-06	1.82E-04	5.28E-06	1.72E-04	5.00E-06
Chromium	1.80E-01	9.62E+00	2.78E+00	7.87E-03	8.18E-04	1.09E-02	1.14E-03	1.41E-02	1.47E-03	1.87E-02	6.73E-03	2.74E-02	9.85E-03	1.41E-02	5.06E-03	8.00E-03	2.88E-03	7.56E-03	2.72E-03
Cobalt	9.60E-03	1.09E+01	7.80E+00	4.19E-04	3.84E-05	5.82E-04	5.34E-05	7.51E-04	6.89E-05	9.96E-04	1.28E-04	1.46E-03	1.87E-04	7.48E-04	9.55E-05	4.26E-04	5.46E-05	4.02E-04	5.16E-05
Copper	8.89E-03	9.34E+00	1.21E+01	3.88E-04	4.15E-05	5.39E-04	5.77E-05	6.96E-04	7.45E-05	9.23E-04	7.63E-05	1.35E-03	1.12E-04	6.93E-04	5.73E-05	3.94E-04	3.26E-05	3.73E-04	3.08E-05
Fluoride	3.33E-01	5.28E+01	3.20E+01	1.45E-02	2.75E-04	2.02E-02	3.82E-04	2.60E-02	4.93E-04	3.45E-02	1.08E-03	5.05E-02	1.58E-03	2.59E-02	8.10E-04	1.48E-02	4.61E-04	1.39E-02	4.36E-04
Hexavalent Chromium	7.02E-02	4.00E+01	NA	3.06E-03	7.66E-05	4.26E-03	1.06E-04	5.49E-03	1.37E-04	7.28E-03	NA	1.07E-02	NA	5.47E-03	NA	3.11E-03	NA	2.94E-03	NA
Iron	2.03E+01	NA	NA	8.86E-01	NA	1.23E+00	NA	1.59E+00	NA	2.11E+00	NA	3.08E+00	NA	1.58E+00	NA	9.00E-01	NA	8.51E-01	NA
Lead	4.74E-03	8.90E+00	3.26E+00	2.07E-04	2.32E-05	2.87E-04	3.23E-05	3.70E-04	4.16E-05	4.91E-04	1.51E-04	7.19E-04	2.20E-04	3.69E-04	1.13E-04	2.10E-04	6.44E-05	1.99E-04	6.09E-05
Manganese	9.32E-01	7.10E+01	3.48E+02	4.07E-02	5.73E-04	5.65E-02	7.96E-04	7.29E-02	1.03E-03	9.67E-02	2.78E-04	1.41E-01	4.06E-04	7.26E-02	2.09E-04	4.13E-02	1.19E-04	3.91E-02	1.12E-04
Mercury	1.90E-05	1.60E-01	3.70E-01	8.30E-07	5.19E-06	1.15E-06	7.21E-06	1.49E-06	9.31E-06	1.97E-06	5.34E-06	2.89E-06	7.81E-06	1.48E-06	4.01E-06	8.44E-07	2.28E-06	7.98E-07	2.16E-06
Methylene chloride	1.20E-03	5.00E+01	3.44E+01	5.23E-05	1.05E-06	7.27E-05	1.45E-06	9.39E-05	1.88E-06	1.25E-04	3.62E-06	1.82E-04	5.29E-06	9.35E-05	2.72E-06	5.32E-05	1.55E-06	5.03E-05	1.46E-06
Nickel	9.28E-03	3.40E+00	1.15E+01	4.05E-04	1.19E-04	5.63E-04	1.66E-04	7.26E-04	2.14E-04	9.63E-04	8.37E-05	1.41E-03	1.22E-04	7.23E-04	6.26E-05	4.11E-04	3.58E-05	3.89E-04	3.38E-05
Nitrogen in Nitrate	1.81E+02	1.13E+03	NA	7.89E+00	6.99E-03	1.10E+01	9.71E-03	1.42E+01	**1.25E-02**	1.88E+01	NA	2.75E+01	NA	1.41E+01	NA	8.02E+00	NA	7.58E+00	NA
Selenium	1.40E-03	2.15E-01	5.79E-01	6.11E-05	2.84E-04	8.49E-05	3.95E-04	1.10E-04	5.09E-04	1.45E-04	2.51E-04	2.12E-04	3.67E-04	1.09E-04	1.88E-04	6.21E-05	1.07E-04	5.87E-05	1.01E-04
Silicon	2.08E-01	NA	NA	9.07E-03	NA	1.26E-02	NA	1.63E-02	NA	2.16E-02	NA	3.16E-02	NA	1.62E-02	NA	9.22E-03	NA	8.72E-03	NA
Silver	4.16E-05	6.02E+01	2.02E+01	1.81E-08	3.01E-08	2.52E-06	4.18E-08	3.25E-06	5.40E-08	4.31E-06	2.13E-07	6.31E-06	3.12E-07	3.24E-06	1.60E-07	1.84E-06	9.12E-08	1.74E-06	8.62E-08
Strontium	2.26E-01	2.63E+02	NA	9.85E-03	3.74E-05	1.37E-02	5.20E-05	1.77E-02	6.71E-05	2.34E-02	NA	3.43E-02	NA	1.76E-02	NA	1.00E-02	NA	9.46E-03	NA
Sulfate	6.22E+01	NA	NA	2.71E+00	NA	3.77E+00	NA	4.87E+00	NA	6.45E+00	NA	9.44E+00	NA	4.85E+00	NA	2.76E+00	NA	2.61E+00	NA
Thallium	7.48E-05	7.50E-02	NA	3.26E-06	4.35E-05	4.54E-06	6.05E-05	5.85E-06	7.80E-05	7.76E-06	NA	1.14E-05	NA	5.83E-06	NA	3.32E-06	NA	3.14E-06	NA
Vanadium	2.08E-02	8.31E+00	6.88E-01	9.08E-04	1.09E-04	1.26E-03	1.52E-04	1.63E-03	1.96E-04	2.16E-03	3.14E-03	3.16E-03	4.59E-03	1.62E-03	2.36E-03	9.23E-04	1.34E-03	8.73E-04	1.27E-03
Zinc	1.29E-01	7.59E+01	6.65E+01	5.65E-03	7.44E-05	7.85E-03	1.03E-04	1.01E-02	1.33E-04	1.34E-02	2.02E-04	1.96E-02	2.95E-04	1.01E-02	1.52E-04	5.74E-03	8.63E-05	5.42E-03	8.16E-05
Filtered Samples																			
Antimony	2.48E-04	5.90E-01	NA	1.08E-05	1.83E-05	1.50E-05	2.55E-05	1.94E-05	3.29E-05	2.57E-05	NA	3.76E-05	NA	1.93E-05	NA	1.10E-05	NA	1.04E-05	NA
Arsenic	8.92E-04	1.66E+00	4.03E+01	3.89E-05	2.34E-05	5.41E-05	3.26E-05	6.98E-05	4.20E-05	9.25E-05	2.30E-06	1.35E-04	3.36E-06	6.95E-05	1.72E-06	3.95E-05	9.81E-07	3.74E-05	9.28E-07
Barium	7.87E-02	7.50E+01	4.17E+01	3.43E-03	4.58E-05	4.77E-03	6.36E-05	6.16E-03	8.21E-05	8.17E-03	1.96E-04	1.19E-02	2.86E-04	6.13E-03	1.47E-04	3.49E-03	8.37E-05	3.30E-03	7.91E-05
Beryllium	1.18E-05	5.32E-01	NA	5.15E-07	9.68E-07	7.15E-07	1.34E-06	9.23E-07	1.73E-06	1.22E-06	NA	1.79E-06	NA	9.20E-07	NA	5.23E-07	NA	4.95E-07	NA
Cadmium	5.40E-05	1.00E+01	1.47E+00	2.36E-06	2.36E-07	3.27E-06	3.27E-07	4.22E-06	4.22E-07	5.60E-06	3.81E-06	8.19E-06	5.57E-06	4.21E-06	2.86E-06	2.39E-06	1.63E-06	2.26E-06	1.54E-06
Chromium	9.79E-02	9.62E+00	2.78E+00	4.27E-03	4.44E-04	5.93E-03	6.17E-04	7.65E-03	7.96E-04	1.02E-02	3.65E-03	1.48E-02	5.34E-03	7.63E-03	2.74E-03	4.34E-03	1.56E-03	4.10E-03	1.48E-03
Copper	3.05E-03	9.34E+00	1.21E+01	1.33E-04	1.43E-05	1.85E-04	1.98E-05	2.39E-04	2.56E-05	3.17E-04	2.62E-05	4.63E-04	3.83E-05	2.38E-04	1.96E-05	1.35E-04	1.12E-05	1.28E-04	1.06E-05
Iron	1.82E-02	NA	NA	7.94E-04	NA	1.10E-03	NA	1.42E-03	NA	1.89E-03	NA	2.76E-03	NA	1.42E-03	NA	8.07E-04	NA	7.63E-04	NA
Lead	2.04E-04	8.90E+00	3.26E+00	8.90E-06	1.00E-06	1.24E-05	1.39E-06	1.60E-05	1.79E-06	2.12E-05	6.49E-06	3.10E-05	9.49E-06	1.59E-05	4.88E-06	9.04E-06	2.77E-06	8.55E-06	2.62E-06
Manganese	8.50E-03	7.10E+01	3.48E+02	3.71E-04	5.22E-06	5.15E-04	7.26E-06	6.65E-04	9.36E-06	8.82E-04	2.53E-06	1.29E-03	3.71E-06	6.62E-04	1.90E-06	3.77E-04	1.08E-06	3.56E-04	1.02E-06
Nickel	3.61E-03	3.40E+00	1.15E+01	1.57E-04	4.63E-05	2.19E-04	6.43E-05	2.82E-04	8.29E-05	3.74E-04	3.25E-05	5.47E-04	4.76E-05	2.81E-04	2.44E-05	1.60E-04	1.39E-05	1.51E-04	1.31E-05
Selenium	3.28E-04	2.15E-01	5.79E-01	1.43E-05	6.66E-05	1.99E-05	9.25E-05	2.57E-05	1.19E-04	3.40E-05	5.88E-05	4.98E-05	8.59E-05	2.56E-05	4.41E-05	1.45E-05	2.51E-05	1.37E-05	2.37E-05
Strontium	2.59E-01	2.63E+02	NA	1.13E-02	4.30E-05	1.57E-02	5.97E-05	2.03E-02	7.70E-05	2.69E-02	NA	3.93E-02	NA	2.02E-02	NA	1.15E-02	NA	1.09E-02	NA
Thallium	2.41E-05	7.50E-02	NA	1.05E-06	1.40E-05	1.46E-06	1.95E-05	1.89E-06	2.51E-05	2.50E-06	NA	3.66E-06	NA	1.88E-06	NA	1.07E-06	NA	1.01E-06	NA
Vanadium	1.80E-02	8.31E+00	6.88E-01	7.85E-04	9.45E-05	1.09E-03	1.31E-04	1.41E-03	1.69E-04	1.87E-03	2.71E-03	2.73E-03	3.97E-03	1.40E-03	2.04E-03	7.98E-04	1.16E-03	7.54E-04	1.10E-03
Zinc	1.51E-02	7.59E+01	6.65E+01	6.60E-04	8.69E-06	9.16E-04	1.21E-05	1.18E-03	1.56E-05	1.57E-03	2.36E-05	2.29E-03	3.45E-05	1.18E-03	1.77E-05	6.70E-04	1.01E-05	6.34E-04	9.53E-06

Notes:

Complete reference information is provided below.

Drinking water ingestion rate estimated using Calder and Braun, 1983

Calder and Braun (1983) regression equation format --> L water/kg body weight/day = a (kilograms body weight)^{b} /kg body weight

Group	*a*	*b*
all birds	0.059	0.67
all mammals	0.099	0.90

Body weight (kg) for:

Elk =	204	assumed average weight of Rocky Mountain Elk (*Cervus canadensis*) cow (Red Orbit, 2012)
Badger =	7.6	median from multiple studies (Messick and Hornocker, 1981; Silva and Downing, 1995)
Little Brown Bat =	0.0103	assumed average weight (*Myotis lucifugus*) from Silva and Downing, 1995
Killdeer =	0.0756	median from multiple studies (Purdue and Haines, 1977; Stegeman, 1955; Jackson and Jackson, 2000; Dunning, 1993)
Swallow =	0.0239	mean adult weight (*Hirundo pyrrhonota*) during breeding (Brown and Brown, 1995)
California Quail =	0.18	median from multiple studies (Robel, 1969; Roseberry and Klimstra, 1971;Guthery et al., 1988)
Western Meadowlark =	0.995	median from multiple studies (Wiens and Rotenberry, 1980; Maher, 1979)
Red-tailed Hawk =	1.179	median from multiple studies (Craighead and Craighead,1956; Steenhof,1983; Springer and Osborne,1983)

	Elk	Badger	Bat	Killdeer	Swallow	California Quail	Western Meadowlark	Red-tailed Hawk
Drinking water ingestion rate (L/kg-bw-d) =	0.058	0.081	0.156	0.138	0.202	0.104	0.059	0.056
Area use factor (unitless) =	0.750	0.750	0.500	0.750	0.750	0.750	0.750	0.750

Acronyms:

EPC = exposure point concentration

HQ = hazard quotient

LOAEL = lowest observed adverse effect level

mg/kg/d = milligrams of chemical per kilogram per day

mg/kg-bw/d = milligrams of chemical per kilogram bodyweight per day

mg/L = milligrams per liter

NA = not available

NOAEL = no observed adverse effect level

TRV = toxicological reference value

References:

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Messick and Hornocker, 1981, "Ecology of the Badger in Southwestern Idaho."

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Steenhof, 1983, "Prey Weights for Computing Percent Biomass in Raptor Diets."

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Table 15. Wildlife Exposure to Inorganic Chemicals through Drinking from Seeps in the 100-H Riparian Area

Analyte Name	Seeps EPC (mg/L)	Mammal LOAEL TRV (mg/kg/d)	Bird LOAEL TRV (mg/kg/d)	Elk Drinking Water Dose (mg/kg-BW/d)	Elk LOAEL HQ	Badger Drinking Water Dose (mg/kg-BW/d)	Badger LOAEL HQ	Bat Drinking Water Dose (mg/kg-BW/d)	Bat LOAEL HQ	Killdeer Drinking Water Dose (mg/kg-BW/d)	Killdeer LOAEL HQ	Swallow Drinking Water Dose (mg/kg-BW/d)	Swallow LOAEL HQ	Quail Drinking Water Dose (mg/kg-BW/d)	Quail LOAEL HQ	Meadowlark Drinking Water Dose (mg/kg-BW/d)	Meadowlark LOAEL HQ	Hawk Drinking Water Dose (mg/kg-BW/d)	Hawk LOAEL HQ
Unfiltered samples																			
Aluminum	1.33E+00	1.93E+01	1.10E+02	5.79E-02	3.00E-03	8.04E-02	4.17E-03	1.04E-01	5.38E-03	1.38E-01	1.25E-03	2.01E-01	1.83E-03	1.03E-01	9.42E-04	5.88E-02	5.36E-04	5.56E-02	5.07E-04
Antimony	2.94E-04	5.90E-01	NA	1.28E-05	2.18E-05	1.78E-05	3.02E-05	2.30E-05	3.90E-05	3.05E-05	**NA**	4.46E-05	**NA**	2.29E-05	**NA**	1.30E-05	**NA**	1.23E-05	**NA**
Arsenic	5.65E-03	1.66E+00	4.03E+01	2.46E-04	1.48E-04	3.42E-04	2.06E-04	4.42E-04	2.66E-04	5.86E-04	1.45E-05	8.57E-04	2.13E-05	4.40E-04	1.09E-05	2.50E-04	6.21E-06	2.37E-04	5.87E-06
Barium	4.15E-02	7.50E+01	4.17E+01	1.81E-03	2.42E-05	2.52E-03	3.36E-05	3.25E-03	4.33E-05	4.31E-03	1.03E-04	6.30E-03	1.51E-04	3.24E-03	7.76E-05	1.84E-03	4.41E-05	1.74E-03	4.17E-05
Beryllium	2.30E-04	5.32E-01	NA	1.00E-05	1.88E-05	1.39E-05	2.62E-05	1.80E-05	3.38E-05	2.38E-05	**NA**	3.48E-05	**NA**	1.79E-05	**NA**	1.02E-05	**NA**	9.62E-06	**NA**
Cadmium	3.50E-03	1.00E+01	1.47E+00	1.53E-04	1.53E-05	2.12E-04	2.12E-05	2.74E-04	2.74E-05	3.63E-04	2.47E-04	5.31E-04	3.61E-04	2.73E-04	1.86E-04	1.55E-04	1.06E-04	1.47E-04	9.98E-05
Calculated Total Uranium	5.50E-03	6.13E+00	1.60E+01	2.40E-04	3.91E-05	3.33E-04	5.43E-05	4.30E-04	7.01E-05	5.70E-04	3.56E-05	8.34E-04	5.21E-05	4.28E-04	2.88E-05	2.44E-04	1.52E-05	2.30E-04	1.44E-05
Chloride	6.17E+00	NA	NA	2.69E-01	**NA**	3.74E-01	**NA**	4.83E-01	**NA**	6.41E-01	**NA**	9.37E-01	**NA**	4.81E-01	**NA**	2.74E-01	**NA**	2.59E-01	**NA**
Chloroform	1.40E-02	4.10E+01	3.44E+01	6.11E-04	1.49E-05	8.49E-04	2.07E-05	1.10E-03	2.67E-05	1.45E-03	4.22E-05	2.12E-03	6.17E-05	1.09E-03	3.17E-05	6.21E-04	1.80E-05	5.87E-04	1.71E-05
Chromium	2.64E-02	9.62E+00	2.78E+00	1.15E-03	1.20E-04	1.60E-03	1.66E-04	2.06E-03	2.14E-04	2.74E-03	9.84E-04	4.00E-03	1.44E-03	2.05E-03	7.39E-04	1.17E-03	4.20E-04	1.10E-03	3.97E-04
Copper	1.11E-02	9.34E+00	1.21E+01	4.86E-04	5.21E-05	6.76E-04	7.24E-05	8.72E-04	9.34E-05	1.16E-03	9.56E-05	1.69E-03	1.40E-04	8.69E-04	7.18E-05	4.94E-04	4.08E-05	4.67E-04	3.86E-05
Fluoride	3.26E-01	5.28E+01	3.20E+01	1.42E-02	2.70E-04	1.98E-02	3.75E-04	2.55E-02	4.83E-04	3.38E-02	1.06E-03	4.95E-02	1.55E-03	2.54E-02	7.94E-04	1.44E-02	4.51E-04	1.37E-02	4.27E-04
Iron	1.03E+00	NA	NA	4.49E-02	**NA**	6.24E-02	**NA**	8.05E-02	**NA**	1.07E-01	**NA**	1.56E-01	**NA**	8.02E-02	**NA**	4.56E-02	**NA**	4.31E-02	**NA**
Lead	6.60E-02	8.90E+00	3.26E+00	2.88E-03	3.24E-04	4.00E-03	4.50E-04	5.16E-03	5.80E-04	6.85E-03	2.10E-03	1.00E-02	3.07E-03	5.14E-03	1.58E-03	2.93E-03	8.97E-04	2.77E-03	8.48E-04
Manganese	4.87E-02	7.10E+01	3.48E+02	2.13E-03	2.99E-05	2.95E-03	4.16E-05	3.81E-03	5.37E-05	5.06E-03	1.45E-05	7.39E-03	2.12E-05	3.80E-03	1.09E-05	2.16E-03	6.21E-06	2.04E-03	5.87E-06
Mercury	4.07E-05	1.60E-01	3.70E-01	1.78E-06	1.11E-05	2.47E-06	1.54E-05	3.18E-06	1.99E-05	4.22E-06	1.14E-05	6.17E-06	1.67E-05	3.17E-06	8.57E-06	1.80E-06	4.88E-06	1.71E-06	4.61E-06
Methylene chloride	1.20E-03	5.00E+01	3.44E+01	5.23E-05	1.05E-06	7.27E-05	1.45E-06	9.39E-05	1.88E-06	1.22E-04	3.62E-06	1.82E-04	5.29E-06	9.35E-05	2.72E-06	5.32E-05	1.55E-06	5.03E-05	1.46E-06
Nickel	1.09E-02	3.40E+00	1.15E+01	4.76E-04	1.40E-04	6.61E-04	1.94E-04	8.53E-04	2.51E-04	1.13E-03	9.83E-05	1.65E-03	1.44E-04	8.49E-04	7.39E-05	4.83E-04	4.20E-05	4.57E-04	3.97E-05
Nitrogen in Nitrate	6.75E+03	1.13E+03	NA	2.94E+02	**2.61E-01**	4.09E+02	**3.62E-01**	5.28E+02	**4.67E-01**	7.00E+02	**NA**	1.02E+03	**NA**	5.26E+02	**NA**	2.99E+02	**NA**	2.83E+02	**NA**
Selenium	7.35E-04	2.15E-01	5.79E-01	3.21E-05	1.49E-04	4.46E-05	2.07E-04	5.75E-05	2.67E-04	7.63E-05	1.32E-04	1.12E-04	1.93E-04	5.73E-05	9.89E-05	3.26E-05	5.63E-05	3.08E-05	5.32E-05
Silver	2.86E-03	6.02E+01	2.02E+01	1.25E-04	2.07E-06	1.73E-04	2.88E-06	2.24E-04	3.72E-06	2.97E-04	1.47E-05	4.34E-04	2.15E-05	2.23E-04	1.10E-05	1.27E-04	6.28E-06	1.20E-04	5.94E-06
Strontium	1.54E-01	2.63E+02	NA	6.73E-03	2.56E-05	9.36E-03	3.56E-05	1.21E-02	4.59E-05	1.60E-02	**NA**	2.34E-02	**NA**	1.20E-02	**NA**	6.84E-03	**NA**	6.47E-03	**NA**
Sulfate	3.11E+01	NA	NA	1.35E+00	**NA**	1.88E+00	**NA**	2.43E+00	**NA**	3.22E+00	**NA**	4.71E+00	**NA**	2.42E+00	**NA**	1.38E+00	**NA**	1.30E+00	**NA**
Thallium	1.42E-04	7.50E-02	NA	6.18E-06	8.25E-05	8.59E-06	1.15E-04	1.11E-05	1.48E-04	1.47E-05	**NA**	2.15E-05	**NA**	1.10E-05	**NA**	6.28E-06	**NA**	5.94E-06	**NA**
Vanadium	6.00E-03	8.31E+00	6.88E-01	2.62E-04	3.15E-05	3.64E-04	4.38E-05	4.69E-04	5.65E-05	6.23E-04	9.05E-04	9.10E-04	1.32E-03	4.68E-04	6.80E-04	2.66E-04	3.87E-04	2.51E-04	3.65E-04
Zinc	1.04E-01	7.59E+01	6.65E+01	4.52E-03	5.95E-05	6.28E-03	8.27E-05	8.10E-03	1.07E-04	1.07E-02	1.62E-04	1.57E-02	2.36E-04	8.07E-03	1.21E-04	4.59E-03	6.90E-05	4.34E-03	6.53E-05
Filtered samples																			
Antimony	2.60E-04	5.90E-01	NA	1.13E-05	1.92E-05	1.57E-05	2.67E-05	2.03E-05	3.44E-05	2.70E-05	**NA**	3.94E-05	**NA**	2.02E-05	**NA**	1.15E-05	**NA**	1.09E-05	**NA**
Arsenic	2.86E-03	1.66E+00	4.03E+01	1.25E-04	7.52E-05	1.73E-04	1.04E-04	2.24E-04	1.35E-04	2.97E-04	7.36E-06	4.34E-04	1.08E-05	2.23E-04	5.53E-06	1.27E-04	3.15E-06	1.20E-04	2.97E-06
Barium	2.75E-02	7.50E+01	4.17E+01	1.20E-03	1.60E-05	1.67E-03	2.22E-05	2.15E-03	2.87E-05	2.85E-03	6.85E-05	4.17E-03	1.00E-04	2.14E-03	5.14E-05	1.22E-03	2.92E-05	1.15E-03	2.77E-05
Cadmium	3.62E-05	1.00E+01	1.47E+00	1.58E-06	1.58E-07	2.20E-06	2.20E-07	2.83E-06	2.83E-07	3.76E-06	2.56E-06	5.50E-06	3.74E-06	2.82E-06	1.92E-06	1.61E-06	1.09E-06	1.52E-06	1.03E-06
Chromium	1.63E-02	9.62E+00	2.78E+00	7.13E-04	7.41E-05	9.90E-04	1.03E-04	1.28E-03	1.33E-04	1.70E-03	6.10E-04	2.48E-03	8.92E-04	1.27E-03	4.58E-04	7.24E-04	2.60E-04	6.85E-04	2.46E-04
Copper	5.11E-04	9.34E+00	1.21E+01	2.23E-05	2.39E-06	3.10E-05	3.32E-06	4.00E-05	4.28E-06	5.31E-05	4.38E-06	7.76E-05	6.41E-06	3.98E-05	3.29E-06	2.27E-05	1.87E-06	2.14E-05	1.77E-06
Iron	1.63E-02	NA	NA	7.11E-04	**NA**	9.88E-04	**NA**	1.27E-03	**NA**	1.69E-03	**NA**	2.47E-03	**NA**	1.27E-03	**NA**	7.22E-04	**NA**	6.83E-04	**NA**
Lead	2.84E-04	8.90E+00	3.26E+00	1.24E-05	1.39E-06	1.72E-05	1.93E-06	2.22E-05	2.50E-06	2.95E-05	9.04E-06	4.31E-05	1.32E-05	2.21E-05	6.79E-06	1.26E-05	3.86E-06	1.19E-05	3.65E-06
Nickel	1.32E-03	3.40E+00	1.15E+01	5.77E-05	1.70E-05	8.01E-05	2.36E-05	1.03E-04	3.04E-05	1.37E-04	1.19E-05	2.01E-04	1.74E-05	1.03E-04	8.95E-06	5.86E-05	5.09E-06	5.54E-05	4.82E-06
Selenium	1.12E-03	2.15E-01	5.79E-01	4.89E-05	2.27E-04	6.79E-05	3.16E-04	8.76E-05	4.07E-04	1.16E-04	2.01E-04	1.70E-04	2.93E-04	8.73E-05	1.51E-04	4.96E-05	8.57E-05	4.69E-05	8.11E-05
Silver	1.80E-03	6.02E+01	2.02E+01	7.85E-05	1.30E-06	1.09E-04	1.81E-06	1.41E-04	2.34E-06	1.87E-04	9.25E-06	2.73E-04	1.35E-05	1.40E-04	6.94E-06	7.98E-05	3.95E-06	7.54E-05	3.73E-06
Strontium	1.23E-01	2.63E+02	NA	5.36E-03	2.04E-05	7.45E-03	2.83E-05	9.61E-03	3.65E-05	1.27E-02	**NA**	1.86E-02	**NA**	9.57E-03	**NA**	5.45E-03	**NA**	5.15E-03	**NA**
Thallium	1.66E-05	7.50E-02	NA	7.24E-07	9.66E-06	1.01E-06	1.34E-05	1.30E-06	1.73E-05	1.72E-06	**NA**	2.52E-06	**NA**	1.29E-06	**NA**	7.36E-07	**NA**	6.96E-07	**NA**
Zinc	2.97E-03	7.59E+01	6.65E+01	1.30E-04	1.71E-06	1.80E-04	2.38E-06	2.33E-04	3.07E-06	3.09E-04	4.64E-06	4.51E-04	6.79E-06	2.32E-04	3.49E-06	1.32E-04	1.98E-06	1.25E-04	1.87E-06

Notes:

Complete reference information is provided below.

Drinking water ingestion rate estimated using Calder and Braun, 1983

Calder and Braun (1983) regression equation format --> L water/kg body weight/day = a (kilograms body weight)$^{-b}$/kg body weight

Group	*a*	*b*
all birds	0.059	0.67
all mammals	0.099	0.90

Body weight (kg) for: Elk =	204	assumed average weight of Rocky Mountain Elk (*Cervus canadensis*) cow (Red Orbit, 2012)
Badger =	7.6	median from multiple studies (Messick and Hornocker, 1981; Silva and Downing, 1995)
Little Brown Bat =	0.0103	assumed average weight (*Myotis lucifugus*) from Silva and Downing, 1995
Killdeer =	0.0756	median from multiple studies (Purdue and Haines, 1977; Stegeman, 1955; Jackson and Jackson, 2000; Dunning, 1993)
Swallow =	0.0239	mean adult weight (*Hirundo pyrrhonota*) during breeding (Brown and Brown, 1995)
California Quail =	0.18	median from multiple studies (Robel, 1969; Roseberry and Klimstra, 1971;Guthery et al., 1988)
Western Meadowlark =	0.995	median from multiple studies (Wiens and Rotenberry, 1980; Maher, 1979)
Red-tailed Hawk =	1.179	median from multiple studies (Craighead and Craighead,1956; Steenhof,1983; Springer and Osborne,1983)

	Elk	Badger	Bat	Killdeer	Swallow	California Quail	Western Meadowlark	Red-tailed Hawk
Drinking water ingestion rate (L/kg-bw-d) =	0.058	0.081	0.156	0.138	0.202	0.104	0.059	0.056
Area use factor (unitless) =	0.750	0.750	0.500	0.750	0.750	0.750	0.750	0.750

Acronyms:

EPC = exposure point concentration

HQ = hazard quotient

LOAEL = lowest observed adverse effect level

mg/kg/d = milligrams of chemical per kilogram per day

mg/kg-bw/d = milligrams of chemical per kilogram bodyweight per day

mg/L = milligrams per liter

NA = not available

NOAEL = no observed adverse effect level

TRV = toxicological reference value

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Table 16. Wildlife Exposure to Radionuclides through Drinking from Seeps in the 100-D and 100-H Riparian Area

Site	Analyte Name	Units	Seeps EPC	Water BCG	Exposure Dose to Wildlife using AUF of 0.75	Wildlife HQ (using AUF of 0.75)	Exposure Dose to Bats using AUF of 0.5	Wildlife HQ (using AUF of 0.5 for bats)
100-D-SEEP	Beryllium-7	pCi/L	1.40E+01	--	1.05E+01	**--**	6.99E+00	**--**
100-D-SEEP	Cesium-137	pCi/L	1.18E+00	4.26E+01	8.85E-01	**2.08E-02**	5.90E-01	**1.38E-02**
100-D-SEEP	Cobalt-60	pCi/L	2.32E+00	4.78E+03	1.74E+00	3.64E-04	1.16E+00	2.43E-04
100-D-SEEP	Europium-154	pCi/L	7.43E+00	5.73E+04	5.57E+00	9.73E-05	3.72E+00	6.48E-05
100-D-SEEP	Gross alpha	pCi/L	5.60E+00	--	4.20E+00	**--**	2.80E+00	**--**
100-D-SEEP	Gross beta	pCi/L	1.14E+01	--	8.57E+00	**--**	5.71E+00	**--**
100-D-SEEP	Strontium-90	pCi/L	5.18E+00	2.78E+02	3.89E+00	**1.40E-02**	2.59E+00	9.32E-03
100-D-SEEP	Tritium	pCi/L	3.65E+03	2.31E+08	2.73E+03	1.18E-05	1.82E+03	7.89E-06
100-D-SEEP	Uranium-234	pCi/L	7.16E-01	6.76E+02	5.37E-01	7.95E-04	3.58E-01	5.30E-04
100-D-SEEP	Uranium-235	pCi/L	2.52E-02	7.36E+02	1.89E-02	2.56E-05	1.26E-02	1.71E-05
100-D-SEEP	Uranium-238	pCi/L	5.90E-01	7.56E+02	4.43E-01	5.85E-04	2.95E-01	3.90E-04
100-D-SEEP	Rads SOF	pCi/L	--	--	--	**3.66E-02**	--	**2.44E-02**
100-H-SEEP	Beryllium-7	pCi/L	1.66E+01	--	1.24E+01	**--**	8.29E+00	**--**
100-H-SEEP	Cesium-134	pCi/L	1.20E+00	2.11E+01	9.00E-01	**4.27E-02**	6.00E-01	**2.84E-02**
100-H-SEEP	Cesium-137	pCi/L	1.88E+00	4.26E+01	1.41E+00	**3.31E-02**	9.40E-01	**2.21E-02**
100-H-SEEP	Europium-155	pCi/L	5.88E+00	8.48E+04	4.41E+00	5.20E-05	2.94E+00	3.47E-05
100-H-SEEP	Gross alpha	pCi/L	4.20E+00	--	3.15E+00	**--**	2.10E+00	**--**
100-H-SEEP	Gross beta	pCi/L	4.20E+01	--	3.15E+01	**--**	2.10E+01	**--**
100-H-SEEP	Strontium-90	pCi/L	1.07E+01	2.78E+02	8.05E+00	**2.89E-02**	5.36E+00	**1.93E-02**
100-H-SEEP	Technetium-99	pCi/L	3.80E+01	6.67E+05	2.85E+01	4.28E-05	1.90E+01	2.85E-05
100-H-SEEP	Tritium	pCi/L	1.53E+03	2.31E+08	1.15E+03	4.96E-06	7.64E+02	3.31E-06
100-H-SEEP	Uranium [radionuclide]	pCi/L	3.23E+00	6.76E+02	2.43E+00	3.59E-03	1.62E+00	2.39E-03
100-H-SEEP	Uranium-234	pCi/L	2.09E+00	6.83E+02	1.56E+00	2.29E-03	1.04E+00	1.53E-03
100-H-SEEP	Uranium-235	pCi/L	1.07E-01	7.36E+02	7.99E-02	1.09E-04	5.33E-02	7.24E-05
100-H-SEEP	Uranium-238	pCi/L	1.71E+00	7.56E+02	1.28E+00	1.70E-03	8.55E-01	1.13E-03
100-H-SEEP	Rads SOF	pCi/L	--	--	--	**1.12E-01**	--	**7.50E-02**

Notes:

AUF = area use factor which was assumed as 0.75 due to inaccessibility of seeps from mid April to mid July for all wildlife except bats for which it was assumed to be 0.5 due to their hibernation in winter in addition to the summer inaccessibility of the seeps.

EPC (Exposure Point Concentrations) were calculated as the 95 percent upper confidence limit (UCL) on the arithmetic mean using the most recent version of EPA's Pro UCL software

BCG (Biota Concentration Guides) represent the lowest value among those calculated for riparian and terrestrial animals
BCGs for cesium-137, europium-154, europium-155, strontium-90, technetium-99, tritium, and uranium isotopes were published in DOE-STD-1153-2002.

BCGs for cesium-134, and cobalt-60 were calcualted according to DOE/EH-0676 using RESRAD BIOTA version 1.5 (ANL, 2009).
HQ = hazard quotient calculated as the exposure dose divided by the water BCG
SOF = sum of fractiosn calculated as the sum of hazard quotients for individual radionuclides

References:

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