ECF-100KR1-11-0009
Revision 1

Human Health Risk Evaluation for the 100-KR-1 and 100-KR-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

CH2MHILL
Plateau Remediation Company

P.O. Box 1600
Richland, Washington 99352

Approved for Public Release;
Further Dissemination Unlimited

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S. L. Lindberg
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Terms

ARAR	applicable or relevant and appropriate requirement
bgs	below ground surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act of 1980
COPC	contaminant of potential concern
DOE	U.S. Department of Energy
ECF	environmental calculation file
ELCR	excess lifetime cancer risk
EPA	U.S. Environmental Protection Agency
EPC	exposure point concentration
FS	feasibility study
HI	hazard index
HQ	hazard quotient
IEUBK	Integrated Exposure Uptake Biokinetic
MTCA	Model Toxics Control Act
OU	operable unit
RBSL	risk-based screening level
RfC	reference concentration
RfD	reference dose
RESRAD	RESidual RADioactivity model
RI	remedial investigation
TPH	total petroleum hydrocarbons
WAC	Washington Administrative Code

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1 Purpose

This environmental calculation file (ECF) documents the methodology used to develop the human health risk and hazard estimates for each decision unit within the 100-K Source Operable Units (OUs) based on post-remediation soil sample results and calculates and presents the risk and hazard estimates based on this methodology. As a part of the risk and hazard estimation, the exposure point concentrations (EPCs) for each waste site decision unit in the 100-K Source OUs are compared to exposure scenario-specific risk-based screening levels (RBSLs) to determine whether the post-remediation soil concentrations are protective of human health. The waste site decision units include shallow zone, deep zone, and overburden (ECF-100KR1-11-0007, *Waste Site Evaluation Process for the 100-KR-1 and 100-KR-2 Source Operable Units*).

This environmental calculation supports DOE/RL-2010-97, *Remedial Investigation/Feasibility Study for the 100-KR-1, 100-KR-2, and 100-KR-4 Operable Units*, under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA). A risk characterization based upon the evaluation of the health risk estimates developed in this environmental calculation will be presented in the RI/FS report.

2 Background

The following subsections provide brief descriptions of the methodology used for cancer risk and non-cancer hazard estimations and the cleanup and screening level comparisons for lead, arsenic, and total petroleum hydrocarbons (TPH).

2.1 Risk and Hazard Estimation Methods

The following provides a summary of the methods used to estimate cancer risks and noncancer hazards and evaluate lead, arsenic and total petroleum hydrocarbons.

2.1.1 Cancer Risk Estimation Method

The potential for cancer effects is evaluated by estimating the excess lifetime cancer risks (ELCRs) posed by the contaminants of potential concern (COPCs). This risk is the incremental increase in the probability of developing cancer during one's lifetime in addition to the background probability of developing cancer (that is, if no exposure to site chemicals occurs). For example, a 2×10^{-6} ELCR means that for every 1 million people exposed to the carcinogen throughout their lifetimes, the average incidence of cancer may increase by two cases of cancer. Cancer slope factors and inhalation unit risks developed by the U.S. Environmental Protection Agency (EPA) represent upper bound estimates of potential risk, so the cancer risks estimated in this ECF should be regarded as upper bounds on the potential cancer risks, rather than estimates of probable cancer risks. The true cancer risk is likely to be less than predicted (EPA/540/1-89/002, *Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A) Interim Final*).

Although synergistic or antagonistic interactions might occur between cancer-causing chemicals or between cancer-causing chemicals and other chemicals, information is generally lacking in the toxicological literature to predict quantitatively the effects of such potential interactions. Therefore, cancer risks are treated as additive within an exposure route for the purposes of this ECF. This is consistent with the EPA guidelines on chemical mixtures (EPA/630/R-00/002, *Supplementary Guidance for Conducting Health Risk Assessment of Chemical Mixtures*).

2.1.2 Non-cancer Hazard Estimation Method

For non-cancer effects, the likelihood that a receptor will develop an adverse effect is estimated by comparing the predicted level of exposure (chronic daily intake) for a particular chemical with the highest level of exposure to that chemical that is considered protective (i.e., its reference dose [RfD] or inhalation reference concentration [RfC]). The ratio of the chronic daily intake divided by the RfD or RfC is termed the hazard quotient (HQ).

When the HQ for a chemical exceeds 1 (i.e., estimated exposure exceeds the RfD or RfC), a concern exists for potential non-cancer health effects. To assess the potential for non-cancer effects posed by exposure to multiple chemicals, a hazard index (HI) approach was used in this ECF in accordance with EPA/540/1-89/002. This approach assumes that the non-cancer hazards associated with exposure to more than one chemical are simply additive; therefore, synergistic or antagonistic interactions between chemicals are not accounted for. The HI may exceed 1, even if all of the individual HQs are less than 1. In this case, the chemicals may be segregated by similar mechanisms of action or critical toxicological effects. Separate HIs may then be derived based on mechanism and effect.

2.1.3 Evaluation of Lead, Arsenic, and Total Petroleum Hydrocarbons

The EPCs for lead and arsenic are compared to the 2013 MTCA ("Tables" [WAC 173-340-900, Table 740-1), Method A, soil cleanup level for Unrestricted Land Use of 250 mg/kg and 20 mg/kg, respectively. Total petroleum hydrocarbon (TPH) EPCs are compared to the 2013 MTCA ("Tables" [WAC 173-340-900] Table 747-5) Residual Saturation Screening Levels for TPH.

3 Methodology

This section provides the equations (and their applicable bases) used to calculate the cancer risks and noncancer hazards associated with exposure to the 100-K Source OUs soils via the exposure routes and pathways associated with the exposure scenarios evaluated in this ECF. Cancer risk and noncancer hazard are estimated with and without background contributions for each decision unit within the 100-K Source OUs. Definitions of variables and associated input values for the equations are provided in Table 1.

Table 1. Summary of Exposure Factors Used for the Human Health Evaluations for the 100-K Source Operable Units.

Exposure Factor	Symbol	Value	Units	Source
Exposure Point Concentration	EPC_{soil}	Analyte-specific	µg/kg or pCi/g	ECF-100KR1-11-0008
Risk-Based Screening Level—radionuclide	$RBSL_{rad}$	Analyte-specific	pCi/g	ECF-HANFORD-10-0429 ECF-HANFORD-10-0446
Risk-Based Screening Level—noncarcinogen	$RBSL_{noncarcinogen}$	Analyte-specific	µg/kg	ECF-HANFORD-10-0444 ECF-HANFORD-10-0445 ECF-HANFORD-11-0033
Risk-Based Screening Level—carcinogen	$RBSL_{carcinogen}$	Analyte-specific	µg/kg	ECF-HANFORD-10-0444 ECF-HANFORD-10-0445 ECF-HANFORD-11-0033
Target Risk—carcinogen	TR	1×10^{-6} (chemical carcinogens) 1×10^{-4}(radionuclides)	Unitless	EPA/540/R-92/003

Notes:

ECF-100KR1-11-0008, *Computation of Exposure Point Concentrations for the 100-KR-1 and 100-KR-2 Source Operable Units*, Rev. 1

ECF-HANFORD-10-0429, *Documentation of Preliminary Remediation Goals (PRGs) for Radionuclides Using the IAROD Exposure Scenario for the 100 and 300 Area Remedial Investigation/Feasibility Study (RI/FS) Report*, Rev. 2

ECF-HANFORD-10-0444, *Documentation of Standard Method B Soil Cleanup Levels for Unrestricted Land Use*, Rev. 4

ECF-HANFORD-10-0445, *Calculation of Nonradiological Preliminary Remediation Goals in Soil for a Casual User Scenario for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 2

ECF-HANFORD-10-0446 *Calculation of Radiological Preliminary Remediation Goals in Soil for a Casual User Scenario for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 1

ECF-HANFORD-11-0033, *Calculation of Inhalation Pathway Preliminary Remediation Goals Using Standard Method B Air Cleanup Levels for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 2

EPA/540/R-92/003, *Risk Assessment Guidance for Superfund: Volume I – Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals): Interim*.

ECF = Environmental calculation file

RBSL = Risk-based screening level

TR = Target ELCR of 10^{-6} for individual chemical carcinogens or 10^{-4} for individual radionuclide.

3.1 Risk and Hazard Estimation Equations

The bases for the equations used to calculate risk and hazard estimates are summarized in Table 2. Equations are provided in the following subsections.

Table 2. Calculated Values and Reference Bases Used for the Human Health Risk and Hazard Estimates

Effect	Symbol for Calculated Value	Reference
Carcinogenic Risk	$Risk_{carcinogen}$	EPA/540/R-92/003
Noncarcinogenic Hazard Quotient	HQ	EPA/540/R-92/003
Total Risk	Total Risk	EPA/540/1-89/002
Hazard Index	HI	EPA/540/1-89/002
Percent Contribution	% Contribution	Not Applicable

Notes:

EPA/540/1-89/002, *Risk Assessment Guidance for Superfund Volume I Human Health Evaluation Manual (Part A).*

EPA/540/R-92/003, *Risk Assessment Guidance for Superfund: Volume I – Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals): Interim.*

HQ= hazard quotient

HI = Hazard Index

3.1.1 Cancer Risk Estimation Method

To estimate the cancer risk from exposure to individual carcinogens from all exposure routes considered, the following equation is used:

$$Risk_{carcinogen} = \frac{EPC_{soil}}{RBSL_{carcinogen}} \times TR$$

3.1.2 Total Cancer Risk Estimation Method

To estimate the total cancer risks from multiple carcinogens from all exposure routes considered, the following equation is used:

$$Total\ Risk_{carcinogens} = \sum_{i=1}^{n} Risk_{carcinogen}$$

3.1.3 Percent Contribution of Total Cancer Risk

The percent contribution of total cancer risk for individual carcinogens is calculated using the following equation:

$$\%\ Contribution = \frac{Risk_{carcinogen}}{Total\ Risk_{carcinogen}} \times 100\%$$

3.1.4 Cumulative Cancer Risk Estimation Method

The cumulative cancer risk estimate is calculated by summing the total cancer risk for radionuclides and the total cancer risk for chemical carcinogens using the following equation:

$$Cumulative\ Risk = Total\ Risk_{radionuclide} + Total\ Risk_{chemical}$$

3.1.5 Non-cancer Hazard Estimation Method

To estimate the HQ from all exposure routes considered for an individual hazardous substance, the following equation is used:

$$HQ = \frac{EPC_{soil}}{RBSL_{noncarcinogen}}$$

To estimate the HI from all exposure routes considered for multiple hazardous substances, the following equation is used:

$$HI = \sum_{i=1}^{n} HQ$$

3.1.6 Percent Contribution of Noncancer Hazard Index

The percent contribution of the HI for individual hazardous substances is calculated using the following equation:

$$\%\ Contribution = \frac{HQ}{HI} \times 100\%$$

3.2 Risk Estimation without Background Contributions

Calculations of risk and hazard estimates, considering contributions from background concentrations, are performed using the following approach.

1. Compare the EPC to the applicable lognormal 90th percentile background value.
2. If the EPC is less than or equal to the lognormal 90th percentile background value, then a risk estimate or a HQ is not calculated.
3. If the EPC is greater than the lognormal 90th percentile background value, then a risk estimate or a HQ is calculated, using the appropriate equations provided in Section 3.1.
4. If a lognormal 90th percentile background value is not available, then a risk estimate or a HQ is calculated, using the appropriate equations provided in Section 3.1.
5. Perform total risk and hazard index calculations for COPCs that exceed lognormal 90th percentile background values and COPCs without background concentrations available, using the appropriate equations provided in Section 3.1.

3.3 Comparison of Lead and Arsenic EPCs to 2013 MTCA Method A Soil Cleanup Levels and TPH EPCs to Residual Saturation Screening Levels

Potential risks or hazards from lead were evaluated using a different method than is conventionally used for other carcinogens and noncarcinogens.For direct contact pathways, the EPCs for lead were compared to the 2013 MTCA ("Tables" [WAC 173-340-900] Table 740-1), Method A, soil cleanup level for Unrestricted Land Use of 250 mg/kg.

The Method A cleanup level for lead is based on EPA's Integrated Exposure Uptake Biokinetic (IEUBK) model, which is available from EPA's website at ww.epa.gov/superfund/lead/products.htm. The IEUBK model is designed to calculate the probability of blood-lead concentrations for children between 6 months and 84 months (i.e., up to 7 years) of age who have been exposed to lead through various sources (e.g., air, water, soil, dust, and in utero contributions from the mother) to exceed a specific blood lead concentration.

Arsenic EPCs were compared to the 2013 MTCA ("Tables" [WAC 173-340-900] Table 740-1), Method A soil cleanup level for Unrestricted Land Use of 20 mg/kg.

TPH EPCs were compared to the 2013 MTCA ("Tables" [WAC 173-340-900] Table 747-5) Residual Saturation Screening Levels for TPH of 1,000 mg/kg for weathered gasoline range or unknown composition or type and 2,000 mg/kg for middle distillates (e.g., Diesel No. 2 fuel oil) or heavy fuel oils (e.g., No. 6 Fuel Oil)."

4 Assumptions and Inputs

Assumptions and inputs associated with COPCs, EPCs, risk thresholds, exposure scenarios, quantification of potential exposure, and the consideration of background concentrations are described below.

4.1 Identification of Contaminants of Potential Concern (COPCs)

For the purposes of this ECF, a COPC is defined as an analyte suspected of being associated with site-related activities, which represent a potential threat to human health or the environment, and whose data are of sufficient quality for use in a quantitative baseline risk assessment.

All analytes detected at least once in a remediated waste site decision unit within 100-K Source OUs are identified as COPCs because the soil sample results represent post-remediation conditions. DOE/RL-2007-21, *River Corridor Baseline Risk Assessment,* identifies a subset of analytes that are excluded from consideration as COPCs by agreement among the Tri-Parties based on relevant Hanford Site data. The following exclusion lists employed in DOE/RL-2007-21 were also applied to the waste site verification data:

- **Radionuclides with a half-life of less than 3 years**: Radionuclides with half-lives less than 3 years would not be present as a result of historical Hanford Site operations because of radioactive decay that would have occurred since operations ceased.
- Essential nutrients: Essential nutrients that are present at relatively low concentrations and are toxic only at high concentrations need not be considered in a quantitative risk assessment.
- **Soil physical property measurements:** These analytes were measured to obtain information on soil properties to understand potential confounding factors for bioassays conducted for soil or to interpret their influence on the toxicity of COPCs (e.g., grain size for soils).

- **Background radionuclides (potassium-40, radium-226, radium-228, thorium-228, thorium-230, and thorium-232):** These background radionuclides were identified by consensus of Tri-Party managers as not directly related to Hanford Site operations or processes.

4.2 Exposure Point Concentrations

The EPCs used for the risk calculations are the analyte-specific values computed from the post-remediation soil sample results for each remediated waste site decision unit in the 100-K Source OUs, as described in ECF-100KR1-11-0008, *Computation of Exposure Point Concentrations for the 100-KR-1 and 100-KR-2 Source Operable Units*. The EPCs are presented in Appendix A, Table A-1 for the 100-K Source OUs.

4.3 Exposure Scenarios Considered for Risk-Based Screening Levels

On the basis of the reasonably anticipated future land use conditions at and near the 100-K Source OUs, the most plausible exposure scenarios considered in characterizing human health risks have been identified:

- Residential scenario
- Casual recreational user scenario

For the purposes of this ECF, shallow zone soil is defined as 0 to 4.6 m (0 to 15 ft) below ground surface (bgs) and deep zone soil is defined as depths greater than 4.6 m (15 ft) bgs.

Residential Scenario

The residential exposure scenario is used to represent baseline conditions. The residential scenario for radiological and non-radiological analytes in soil is based on two different conceptual exposure models.

- For radionuclides in soil, the exposure pathways are direct contact, dust and vapor inhalation, consumption of homegrown foodstuffs (e.g., produce, beef, and milk), and the leaching pathway (includes drinking water ingestion and fish ingestion).
- For nonradiological analytes in soil, the exposure pathways are direct contact from incidental soil ingestion and inhalation of vapors and dust in ambient air.

Casual Recreational User Scenario

The reasonably anticipated future land use within the River Corridor's 100 and 600 Areas is predominantly conservation/preservation. The casual recreational user is selected as the receptor to represent potential exposures from recreational use along the River Corridor. The casual recreational user scenario is a site-specific scenario that represents occasional recreational use that focuses on activities such as walking and picnicking in areas along the Columbia River where paths and benches are likely to exist. These receptors are assumed to be exposed entirely in an outdoor environment. This scenario also assumes that drinking water is obtained from an offsite source.

The casual recreational user scenario is based on the same conceptual exposure model for radiological and non-radiological analytes in soil. The exposure pathways are direct contact and inhalation of vapors and dust in ambient air. Adults and children could potentially be exposed to site contaminants in shallow zone soil along the river through direct external exposure, incidental soil ingestion, dermal absorption, and inhalation of vapors and dust in ambient air.

Table 3 provides a summary of the exposure scenarios, applicable exposure pathways, and references for the RBSLs used for the human health evaluation.

Table 3. Exposure Scenarios and Pathways

Exposure Scenario	Analyte Group	Exposure Pathway	Applicable RBSL ECF
Residential	Radiological	Direct Contact Inhalation of Dust and Vapors Consumption of Homegrown Foodstuff Leaching Pathway	ECF-HANFORD-10-0429
	Nonradiological	Direct contact (incidental soil ingestion) Inhalation of Dust and Vapors	ECF-HANFORD-10-0444 ECF-HANFORD-11-0033
Casual Recreational User	Radiological	Direct Contact Inhalation of Dust and Vapors	ECF-HANFORD-10-0446
	Nonradiological	Direct Contact Inhalation of Dust and Vapors	ECF-HANFORD-10-0445

Notes:

ECF-HANFORD-10-0429, *Documentation of Preliminary Remediation Goals (PRGs) for Radionuclides Using the IAROD Exposure Scenario for the 100 and 300 Area Remedial Investigation/Feasibility Study (RI/FS) Report*, Rev. 2.

ECF-HANFORD-10-0444, *Documentation of Standard Method B Soil Cleanup Levels for Unrestricted Land Use*, Rev. 4.

ECF-HANFORD-10-0445, *Calculation of Nonradiological Preliminary Remediation Goals in Soil for a Casual User Scenario for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 2.

ECF-HANFORD-10-0446, *Calculation of Radiological Preliminary Remediation Goals in Soil for a Casual User Scenario for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 1.

ECF-HANFORD-11-0033, *Calculation of Inhalation Pathway Preliminary Remediation Goals Using Standard Method B Air Cleanup Levels for the 100 Areas and 300 Area Remedial Investigation/Feasibility Study Reports*, Rev. 2.

RBSL = Risk-Based Screening Level

ECF = Environmental Calculation File

4.4 Quantification of Risk-Based Screening Levels

Quantification of potential exposures is evaluated through the comparison of EPCs to RBSLs. EPA/540/R-92/003, *Risk Assessment Guidance for Superfund Volume I – Human Health Evaluation Manual (Part B, Development of Risk-based Preliminary Remediation Goals) Interim*, defines chemical-specific RBSLs as concentration goals for individual chemicals for specific environmental medium and land use combinations at CERCLA sites. The RBSLs are obtained from two general sources: (1) concentrations based on applicable or relevant and appropriate requirements (ARARs) and (2) concentrations based on risk assessment. Exposure assumptions published by the State of Washington and EPA and toxicity values published by EPA are used to derive RBSLs.

The RBSLs are calculated using methodologies published in EPA/540/R-92/003 and more recent guidance published in EPA/540/R-96/018, Soil *Screening Guidance: User's Guide* and EPA/540-R-00-007, *Soil Screening Guidance for Radionuclides: User's Guide* and use toxicity and exposure values

published by EPA. Radionuclide RBSLs for the residential exposure scenario are calculated using the RESidual RADioactivity (RESRAD) code and applicable exposure assumptions and factors based on the guidance listed above. The RESRAD model and computer code were developed as a multifunctional tool for developing cleanup criteria and assessing the dose or risk associated with residual radioactive material (ANL/EAD 4, *User's Manual for RESRAD, Version 6)*.

The RBSL values for each exposure scenario are provided in Appendix A, Table A-2.

4.5 Risk Thresholds

For the purposes of the risk characterization, the potential for unacceptable human health risk is identified using the following risk thresholds:

- ELCR values are compared to the target range of 10^{-4} to 10^{-6} that is generally used by regulatory agencies. The 2013 MTCA (WAC 173-340) states that cancer risks resulting from multiple hazardous substances should not exceed 1×10^{-5} for unrestricted land use. ELCR values within or exceeding this target range require a risk management decision that includes evaluating site-specific characteristics and exposure scenario factors to assess whether remedial action is warranted.
- An HI (the sum of the ratios of the chemical intake to the RfDs or RfCs for all COPCs) greater than 1 indicates that some potential exists for adverse non-cancer health effects associated with exposure to the analytes.

4.6 Consideration of Background in Risk Assessment

EPA 540-R-01-003, *Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites*, provides national policy for application of background data in risk assessment and remedy selection. This policy recommends a risk characterization approach that addresses site-specific issues associated with background concentrations. EPA 540-R-01-003 states:

> "COPCs that have both release-related and background-related sources should be included in the risk assessment. When concentrations of naturally occurring elements at a site exceed risk-based screening levels, that information should be discussed qualitatively in the risk characterization."

EPA 540-R-01-003 defines background constituents as either: (1) *anthropogenic* - natural and human-made substances present in the environment as a result of human activities (not specifically related to the CERCLA release in question), and (2) *naturally occurring* - substances present in the environment in forms that have not been influenced by human activity.

4.6.1 Sources of Background Concentrations

The 90th percentile and maximum background concentrations for the Hanford Site have been developed for both inorganic chemicals and radionuclides and are considered representative of both naturally occurring and anthropogenic substances. The maximum inorganic background concentrations used in this evaluation are identified as the "overall maximum concentrations" in DOE/RL-92-24, *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes*, Summary Table 1 and the 90th percentile inorganic background concentrations are identified as the "lognormal distribution 90th percentiles" in DOE/RL-92-24, Summary Table 2. The exceptions to this are described in the paragraph below. Two types of sampling were conducted to determine the inorganic background values: systematic random sampling and judgment sampling. The overall maximum concentrations were determined by considering the analytical results from both systematic random samples and judgmental samples. The

90th percentile values were calculated using the analytical results from the systematic random samples only.

The Hanford Site cleanup value for arsenic is 20 mg/kg based on the letter *Issues Associated with Establishing Soil Cleanup Levels for Arsenic* published by the Department of Ecology Toxics Cleanup Program on June 11, 2013. This letter indicates that the Method A soil cleanup level of 20 mg/kg can be used to define natural background levels when developing Method B soil cleanup levels for the Hanford Site. While the measured 90th percentile background concentration of arsenic in Hanford soils is about 6.47 mg/kg, the value of 20 mg/kg is used as the applicable cleanup level.

The Hanford Site background values for antimony, boron, cadmium, lithium, mercury, molybdenum, selenium, silver, and thallium are documented in ECF-HANFORD-11-0038, *Soil Background for Interim Use at the Hanford Site*. Boron was not analyzed for in DOE/RL-92-24 and the analytical data associated with the remaining analytes in DOE/RL-92-24 are considered unusable for statistical analyses because of elevated method detection limits. The background concentration values documented in ECF-HANFORD-11-0038 reference PNNL-18577, *A Review of Metal Concentrations Measured in Surface Soil Samples Collected On and Around the Hanford Site*. The ECF documents a review of the data sets from DOE/RL-92-24 and PNNL-18577 that indicates the data are comparable and issues associated with elevated detection limits were eliminated as a result of improvements in analytical methods used for PNNL-18577. It is noted that ECF-HANFORD-11-0038 recalculates the percentile values using a nonparametric (Kaplan-Meier) method, consistent with the methodology used in DOE/RL-92-24. PNNL-18577 calculated the 90th percentile values based on an assumption of normally-distributed data.

The background concentration values documented in ECF-HANFORD-11-0038 for selenium reference Ecology Publication 94-115, Natural Background Soil Metals Concentrations in Washington State because neither DOE/RL-92-24 nor PNNL-18577 had adequate analytical results.

Radionuclide background values (lognormal 90th percentile and maximum) are identified in Table 5-1 of DOE/RL-96-12, *Hanford Site Background: Part 2, Soil Background for Radionuclides*. The background values for naturally occurring radionuclides were determined primarily by analyzing a subset of the inorganic systematic random samples from the vadose zone (upper 30 cm of the soil column). The background values for the anthropogenic radionuclides were determined from analytical results from surface sampling (upper 2.5 cm of the soil column). It is noted that the mass-based background concentration for uranium was derived using the isotopic activities documented in DOR/RL-96-12, which were converted to mass-base concentrations and summed. The pCi/g to µg/kg conversions and subsequent summations are performed using background activities for the uranium isotopes and appropriate conversion factors. Table 4 presents the 90th percentile value as an example calculation of the conversion.

Table 4. Conversion from Activity- to Mass-Based Concentration (pCi/g to µg/kg) for Uranium Isotopes Background Activities and Summation to Produce a Mass-Based Total Uranium Background Concentration (µg/kg)

Uranium Isotope	Measured Activity (pCi isotope/ g soil)[a] (ND or D)	Specific Activity (Bq isotope/ g isotope)[b]	Specific Activity (pCi isotope/ g isotope)[c]	Conversion Factor (µg isotope/ g isotope)	Conversion Factor (g soil/ kg soil)	Calculated Concentration (µg isotope/ kg soil)[d]
U-233/234	1.1	2.302E+08	6.222E+09	1,000,000	1,000	0.18
U-235	0.109	7.995E+04	2.161E+06	1,000,000	1,000	50

U-238	1.06	1.243E+04	3.359E+05	1,000,000	1,000	3160
Total Uranium Concentration (Total_U_Isotopes) (µg total uranium/kg soil) =						**3,210**

a. Example analytical data shown for illustration purposes only.

b. *Table of Isotopes 8th Edition, 1995, Last update 12th April, 1998*.

c. Formula = specific activity (Bq/g) / 3.7E+10 Bq/Ci × 1.0E+12 pCi/Ci

d. Formula = measured activity (pCi/g) / specific activity (pCi/g) × conversion factor (µg/g) × conversion factor (g/kg)

ND = non-detect

D = detect

The composition of background samples described in DOE/RL-92-24, DOE/RL-96-12, and PNNL-18577 is representative of the sedimentary facies in the vadose zone at the 100-K Source OUs. These background data are recommended for use in environmental-restoration activities on the Hanford Site to maintain consistency between projects, and they have been peer reviewed for technical credibility. Appendix A, Table A-3 lists the maximum and 90th percentile background concentration values for inorganic chemicals and radionuclides.

4.6.2 Comparison of Site and Background Risk Contributions

Understanding the contribution to risk from naturally occurring elements is important because cleanup levels are not set at concentrations below natural background levels under CERCLA. Similarly, WAC 173-340-700(6)(d), *Requirements for setting cleanup levels, Natural background and analytical considerations*, states:

> "In some cases, cleanup levels calculated using the methods specified in this chapter are less than natural background levels or levels that can be reliably measured. In those situations, the cleanup level shall be established at a concentration equal to the practical quantitation limit or natural background concentration, whichever is higher."

EPA 540-R-01-003 states:

> "When background concentrations are high relative to the concentrations of released hazardous substances, pollutants, and contaminants, a comparison of site and background concentrations may help risk managers make decisions concerning appropriate remedial actions. The contribution of background concentrations to risks associated with CERCLA releases may be important for refining specific cleanup levels for contaminants of concern that warrant remedial action."

To assist risk managers in making decisions concerning appropriate remedial actions, a comparison of risks and hazards with and without background contributions is presented in the spreadsheets listed in Section 7.

5 Software Applications

The approved software application POSTAL v3.0 is the primary software program used for calculations reported in this document. The required information about POSTAL v3.0 is provided in this section.

5.1 POSTAL Description

The following presents the description of POSTAL used for this report. See CHPRC-03486, *POSTAL Software Management Plan, Rev. 0* for further details regarding the use of this software.

- Software Title: POSTAL
- Software Version: 3.0
- HISI Identification Number: 4198

Workstation type and description (from which software is run): POSTAL was executed on a Lenovo ThinkPad computer (property tag INTERA-00798) running Windows 10. Computer details are:

- Intel® Core™ i7-6600U CPU @ 2.60GHz
- 16 GB RAM
- Windows 10 Pro 64-bit Operating System

Additional workstation type and description: POSTAL was executed on a Lenovo ThinkPad computer (property tag INTERA-00707) running Windows 10. Computer details are:

- Intel® Core™ i7-4600U CPU @ 2.10GHz
- 8 GB RAM
- Windows 10 Pro 64-bit Operating System

5.1.1 Software Installation and Checkout

The software installation and checkout forms for POSTAL v3.0 are attached to this document.

5.1.2 Statement of Valid Software Installation

The following presents the statement that POSTAL v3.0 is a valid software application.

- POSTAL was developed by INTERA, Inc., to provide automated execution of ProUCL and automated generation of UCL-, EPC- and risk tables in support of risk assessment activities.
- Acceptance tests were performed that demonstrated POSTAL correctly controlled the execution of ProUCL v5.1 and built UCL-95 and EPC tables from the ProUCL output and established EPC selection rules.
- POSTAL as it has been used in this activity has been implemented within the range of its limitations.

6 Calculation

Human health risk and hazard estimates are calculated using the methodology, EPCs, and RBSLs documented in Sections 3 and 4 of this environmental calculation. The calculation spreadsheets are provided in Appendix B. The calculations were validated by comparison with hand calculations, which are presented in Figure 1 (3 sheets).

7 Results/Conclusions

A summary of the human health evaluation for each exposure scenario is provided in Appendix B. The worksheets in Appendix B are listed in Table 4.

Table 4. Worksheets for the 100-K Source Operable Units Human Health Evaluations

100-K Source Operable Units
B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values
B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions
B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions
B-4. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions
B-5. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions
B-6. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Overburden Decision Units in the 100-K Source OUs with Background Contributions
B-7. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs with Background Contributions
B-8. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Deep Zone Decision Units in the 100-K Source OUs with Background Contributions
B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution
B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution
B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons
B-12. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution
B-13. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution
B-14. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Overburden Decision Units in the 100-K Source OUs Without Background Contribution
B-15. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs Without Background Contribution
B-16. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Deep Zone Decision Units in the 100-K Source OUs Without Background Contribution
B-17. Casual Recreational User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions
B-18. Summary of Casual Recreational User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Table 4. Worksheets for the 100-K Source Operable Units Human Health Evaluations

100-K Source Operable Units
b-19. Summary of Casual Recreational User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Overburden Decision Units in the 100-K Source OUs with Background Contributions
B-20. Casual Recreational User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution
B-21. Summary of Casual Recreational User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution
B-22. Summary of Casual Recreational User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk for Overburden Decision Units in the 100-K Source OUs Without Background Contribution

8 References

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Figure 1
HAND CALCULATIONS
(3 Sheets)

ECF. 100KR1-11-0009. 100K Human Health. Wafa Batal 10/30/17 1

Cancer Risk - Carcinogens (non-radionuclides)

$$Risk_{carcinogen} = \frac{EPC_{soil}}{RBSL_{Carcinogen}} \times TR$$

100-K-32 Shallow-focused Arsenic Residential Scenario

$$Risk_{carcinogen} = \frac{3000\ \mu g/kg}{667\ \mu g/kg} \times 10^{-6}$$

$$Risk_{carcinogen} = 4.5 \times 10^{-6}$$ ✓

Total Risk - Carcinogen (non radionuclide)

$$Total\ Risk_{carcinogen} = \sum Risk_{carcinogen}$$

100-K-29 shallow-focused - Residential Scenario

$$Total\ Risk_{carcinogen} = Risk\ (Aroclor-1254) + Risk\ (Arsenic)$$

$$= 1.96\ E-07 + 3.45\ E-06$$

$$= 3.65\ E-06$$ ✓

% contribution of Cancer Risk - Carcinogens (non radionuclide)

$$\%\ contribution = \frac{Risk_{carcinogen}}{Total\ Risk_{carcinogen}} \times 100\%$$

100-K-29 shallow-focused Residential Scenario - Arsenic

$$\%\ contribution = \frac{3.45\ E-06}{3.65\ E-06} \times 100\%$$

$$= 94.5\%$$ ✓ (sig fig discrepancy)

Cancer Risk Radionuclides.

$$Risk_{radionuclide} = \frac{EPC_{soil}}{RBSL_{radionuclide}}$$

100-K-36 shallow Uranium-238 Casual user Scenario

$$Risk_{radionuclide} = \frac{0.16\ pCi/g}{1.07\ E^{+3}} \times 1 \times 10^{-4}$$

$$= 1.50\ E^{-8}$$ ✓ (sig fig discrepancy)

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Total Cancer Risk - Radionuclides.

$$\text{Total Risk}_{\text{radionuclides}} = \sum \text{Risk}_{\text{radionuclides}}.$$

100-K-36-shallow Casual user scenario.

$$\text{Total Risk}_{\text{radionuclides}} = \text{Risk}(U\text{-}238) + \text{Risk}(U\text{-}233/234)$$
$$= 1.50E^{-8} + 3.06E^{-9}$$
$$= 1.80E^{-8}$$

Percent Contribution of Cancer Risk - Radionuclides

100-K-36-shallow Casual user Uranium-238

$$\%\ \text{Contribution} = \frac{1.50E^{-8}}{1.80E^{-8}} \times 100\%$$
$$= 82.99\%$$ (sig. fig discrepancy)

Total cancer Risk Estimate - Radionuclides and Carcinogens

$$\text{Total Risk} = \text{Total Risk}_{\text{radionuclides}} + \text{Total Risk}_{\text{carcinogens}}$$

132-KE-1-shallow Casual user Scenario

$$\text{Total Risk} = 5.56E^{-7} + 4.55E^{-7}$$
$$= 1.01E^{-6}$$

Hazard Quotient - Noncarcinogens

$$HQ = \frac{EPC_{soil}}{RBSL_{noncarcinogens}}$$

116-K-1-shallow Chromium Residential Scenario

$$HQ = \frac{137E^{+4}\ \mu g/Kg}{1.2E^{+8}\ \mu g/Kg}.$$

$$HQ = 1.14E^{-4}$$

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Hazard Index – noncarcinogens

$$HI = \sum HQ$$

116-K-1-Shallow Residential Scenario

$$HI = HQ_{chromium} + HQ_{hexavalent\ chromium}$$

$$= 1.14\ E-04 + 1.08\ E-03$$

$$= 1.19\ E-03$$ (sig. fig. discrepancy)

% Contribution of Hazard Index - Noncarcinogens

$$\% \text{ Contribution} = \frac{HQ}{HI} \times 100\%$$

116-K-1-Shallow Residential scenario Hexavalent Chromium

$$\% \text{ contribution} = \frac{1.08\ E-03}{1.19\ E-03} \times 100\%$$

$$= 90\%$$ (sig fig discrepancy)

Attachment

Software Installation and Checkout Form for POSTAL v3.0

CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM

Software Owner Instructions:

Complete Fields 1-13, then run test cases in Field 14. Compare test case results listed in Field 15 to corresponding Test Report outputs. If results are the same, sign and date Field 19. If not, resolve differences and repeat above steps.

Software Subject Matter Expert Instructions:

Assign test personnel. Approve the installation of the code by signing and dating Field 21, then maintain form as part of the software support documentation.

GENERAL INFORMATION:

1. Software Name: POSTAL Software Version No.: 3.0

EXECUTABLE INFORMATION:

2. Executable Name (include path):

   E:\WF23245Laptop\GW-100N-Work\2017WorkDB\POSTAL.exe

3. Executable Size (bytes): 632,832

COMPILATION INFORMATION:

4. Hardware System (i.e., property number or ID):

   Lenovo ThinkPad (property tag INTERA-00798)

5. Operating System (include version number):

   Windows 10 Pro 64-bit

INSTALLATION AND CHECKOUT INFORMATION:

6. Hardware System (i.e., property number or ID):

   Lenovo ThinkPad (property tag INTERA-00798)

7. Operating System (include version number):

   Windows 10 Pro 64-bit

8. Open Problem Report? (•) No ( ) Yes PR/CR No.

TEST CASE INFORMATION:

9. Directory/Path:

   E:\WF23245Laptop\GW-100N-Work\2017WorkDB\

10. Procedure(s):

    CHPRC-03486 Rev. 0, POSTAL Software Management Plan (Sections 16 and 13.3.3.9)

11. Libraries:

    N/A

12. Input Files:

    N/A

13. Output Files:

    N/A (to screen)

14. Test Cases:

    POSTAL-ITC-1

15. Test Case Results:

    Passed. Match expected results as presented in CHPRC-03486, POSTAL Software Management Plan Section 13.3.3.9 and Attachment 9: Test Log for POSTAL-ITC-1 template.

16. Test Performed By: Randy Dockter

17. Test Results: (•) Satisfactory, Accepted for Use ( ) Unsatisfactory

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CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM (continued)

1. Software Name: POSTAL — Software Version No.: 3.0

18. Disposition (include HISI update):

Installation added to HISI registry. -WE Nichols

Prepared By: WILLIAM NICHOLS (Affiliate) Digitally signed by WILLIAM NICHOLS (Affiliate) Date: 2018.03.06 15:36:10 -08'00'

19.	William E Nichols	
Software Owner (Signature)	Print	Date

20. Test Personnel:

Randy Dockter	RE Dockter	3/5/2018
Sign	Print	Date
Sign	Print	Date
Sign	Print	Date

Approved By:

21.	N/A (CHRPC-3486)	
Software SME (Signature)	Print	Date

Appendix A

Exposure Point Concentrations, RBSLs and Background Concentrations for 100-K Source Operable Units

Table A-1. Exposure Point Concentrations for each Waste Site Decision Unit in the 100-K Source OU

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	16	3	13	19	ug/kg	280	310	343	1,710	0.75	595	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	16	16	0	100	ug/kg	--	--	1,780	6,460	0.36	3,654	95% Adjusted Gamma UCL	--
100-K-102_Shallow_1	non-Rad	Barium	7440-39-3	16	16	0	100	ug/kg	--	--	43,100	95,500	0.21	71,680	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Beryllium	7440-41-7	16	16	0	100	ug/kg	--	--	186	470	0.25	346	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Boron	7440-42-8	16	7	9	44	ug/kg	470	4,900	520	1,800	0.50	1,027	95% KM (t) UCL	--
100-K-102_Shallow_1	non-Rad	Cadmium	7440-43-9	16	4	12	25	ug/kg	93	100	98	213	0.40	123	95% KM Student's t	--
100-K-102_Shallow_1	non-Rad	Chromium	7440-47-3	16	16	0	100	ug/kg	--	--	4,150	9,690	0.20	8,143	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Cobalt	7440-48-4	16	16	0	100	ug/kg	--	--	9,460	12,200	0.061	11,613	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Copper	7440-50-8	16	16	0	100	ug/kg	--	--	14,400	20,600	0.078	18,990	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	16	1	15	6.3	ug/kg	98	100	149	149	0	149	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-102_Shallow_1	non-Rad	Lead	7439-92-1	16	16	0	100	ug/kg	--	--	3,550	19,600	0.60	8,047	95% Modified-t UCL	--
100-K-102_Shallow_1	non-Rad	Manganese	7439-96-5	16	16	0	100	ug/kg	--	--	325,000	433,000	0.074	396,776	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	16	2	14	13	ug/kg	46	51	65	5,560	1.4	5,086	99% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	16	16	0	100	ug/kg	--	--	458	768	0.16	593	95% Modified-t UCL	--
100-K-102_Shallow_1	non-Rad	Nickel	7440-02-0	16	16	0	100	ug/kg	--	--	7,670	11,600	0.11	10,594	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Nitrate	14797-55-8	16	13	3	81	ug/kg	4,250	4,250	4,780	19,000	0.52	8,930	95% KM (t) UCL	--
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	16	16	0	100	ug/kg	--	--	665	2,300	0.40	1,722	95% Adjusted Gamma UCL	--
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	16	16	0	100	ug/kg	--	--	24,400	38,900	0.13	32,455	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	16	16	0	100	ug/kg	--	--	468	946	0.22	689	95% Modified-t UCL	--
100-K-102_Shallow_1	non-Rad	Uranium	7440-61-1	16	16	0	100	ug/kg	--	--	442	653	0.10	588	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Vanadium	7440-62-2	16	16	0	100	ug/kg	--	--	65,800	92,400	0.093	81,574	95% Student's-t UCL	--
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	16	16	0	100	ug/kg	--	--	50,700	381,000	1.0	117,913	95% Modified-t UCL	--
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	21	7	14	33	ug/kg	150	330	154	967	0.81	445	95% GROS Adjusted Gamma UCL	--
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	21	21	0	100	ug/kg	--	--	2,090	4,960	0.24	3,032	95% Adjusted Gamma UCL	--
100-K-102_Shallow_2	non-Rad	Barium	7440-39-3	21	21	0	100	ug/kg	--	--	44,300	78,200	0.14	62,641	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Beryllium	7440-41-7	21	21	0	100	ug/kg	--	--	222	393	0.15	311	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Boron	7440-42-8	21	21	0	100	ug/kg	--	--	437	1,720	0.38	1,082	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	21	21	0	100	ug/kg	--	--	37	3,580	3.3	962	95% Chebyshev (Mean, Sd) UCL	--
100-K-102_Shallow_2	non-Rad	Chromium	7440-47-3	21	21	0	100	ug/kg	--	--	3,410	7,990	0.26	6,303	95% Adjusted Gamma UCL	--
100-K-102_Shallow_2	non-Rad	Cobalt	7440-48-4	21	21	0	100	ug/kg	--	--	6,790	10,200	0.10	9,123	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Copper	7440-50-8	21	21	0	100	ug/kg	--	--	14,300	19,300	0.085	17,143	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Lead	7439-92-1	21	21	0	100	ug/kg	--	--	3,470	13,700	0.45	7,073	95% Modified-t UCL	--
100-K-102_Shallow_2	non-Rad	Manganese	7439-96-5	21	21	0	100	ug/kg	--	--	257,000	373,000	0.11	324,038	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	21	5	16	24	ug/kg	25	54	42	3,430	1.9	1,211	95% Gamma Adjusted KM-UCL	--
100-K-102_Shallow_2	non-Rad	Molybdenum	7439-98-7	21	21	0	100	ug/kg	--	--	280	807	0.27	446	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Nickel	7440-02-0	21	21	0	100	ug/kg	--	--	6,540	11,000	0.13	9,336	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Nitrate	14797-55-8	21	6	15	29	ug/kg	4,250	4,340	5,000	34,800	0.76	10,405	95% KM (t) UCL	--
100-K-102_Shallow_2	non-Rad	Selenium	7782-49-2	21	16	5	76	ug/kg	260	290	259	593	0.25	331	95% KM (BCA) UCL	--
100-K-102_Shallow_2	non-Rad	Silver	7440-22-4	21	10	11	48	ug/kg	24	54	27	40	0.15	31	95% KM (t) UCL	--
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	21	21	0	100	ug/kg	--	--	20,600	43,100	0.17	29,284	95% Adjusted Gamma UCL	--
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	21	21	0	100	ug/kg	--	--	334	644	0.16	478	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Uranium	7440-61-1	21	21	0	100	ug/kg	--	--	381	1,560	0.48	699	95% Modified-t UCL	--
100-K-102_Shallow_2	non-Rad	Vanadium	7440-62-2	21	21	0	100	ug/kg	--	--	27,700	54,500	0.14	47,497	95% Student's-t UCL	--
100-K-102_Shallow_2	non-Rad	Zinc	7440-66-6	21	21	0	100	ug/kg	--	--	29,000	49,600	0.11	42,202	95% Student's-t UCL	--
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	18	2	16	11	ug/kg	290	330	462	463	0.0015	463	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	18	18	0	100	ug/kg	--	--	1,450	4,510	0.27	4,510	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Barium	7440-39-3	18	18	0	100	ug/kg	--	--	43,200	99,200	0.22	99,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Beryllium	7440-41-7	18	18	0	100	ug/kg	--	--	153	440	0.29	440	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Boron	7440-42-8	18	16	2	89	ug/kg	490	540	542	1,500	0.31	1,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Cadmium	7440-43-9	18	16	2	89	ug/kg	53	55	57	183	0.39	183	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Chromium	7440-47-3	18	18	0	100	ug/kg	--	--	3,060	10,900	0.36	10,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Cobalt	7440-48-4	18	18	0	100	ug/kg	--	--	5,650	13,800	0.20	13,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Copper	7440-50-8	18	18	0	100	ug/kg	--	--	11,400	20,000	0.13	20,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	18	2	16	11	ug/kg	1,100	1,200	3,620	4,610	0.17	4,610	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Lead	7439-92-1	18	18	0	100	ug/kg	--	--	2,380	9,040	0.37	9,040	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	18	18	0	100	ug/kg	--	--	267,000	648,000	0.22	648,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	18	18	0	100	ug/kg	--	--	350	820	0.23	820	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Nickel	7440-02-0	18	18	0	100	ug/kg	--	--	6,020	13,400	0.21	13,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Nitrate	14797-55-8	18	2	16	11	ug/kg	4,120	4,380	4,520	7,700	0.37	7,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Selenium	7782-49-2	18	16	2	89	ug/kg	240	270	249	654	0.28	654	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	18	18	0	100	ug/kg	--	--	22,000	38,200	0.15	38,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	18	18	0	100	ug/kg	--	--	287	716	0.20	716	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Uranium	7440-61-1	18	18	0	100	ug/kg	--	--	384	676	0.14	676	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	18	18	0	100	ug/kg	--	--	34,500	86,700	0.24	86,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	18	18	0	100	ug/kg	--	--	33,600	78,400	0.19	78,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-105_Shallow_1	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	7.80E+06	7.80E+06	0	7.80E+06	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aluminum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	130	130	0	130	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Antimony was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,500	2,500	0	2,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	64,000	64,000	0	64,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	340	340	0	340	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	87	87	0	87	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	8,900	8,900	0	8,900	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,600	7,600	0	7,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,000	14,000	0	14,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	290	290	0	290	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Hexavalent Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	1.90E+07	1.90E+07	0	1.90E+07	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Iron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,600	4,600	0	4,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	320,000	320,000	0	320,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	310	310	0	310	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,500	9,500	0	9,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	5,750	5,750	0	5,750	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	500	500	0	500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	21	21	0	21	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	26,000	26,000	0	26,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	660	660	0	660	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	360	360	0	360	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	46,000	46,000	0	46,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	41,000	41,000	0	41,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_1	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium-90 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	6.30E+06	6.30E+06	0	6.30E+06	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aluminum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	96	96	0	96	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Antimony was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,200	2,200	0	2,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	52,000	52,000	0	52,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	270	270	0	270	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	55	55	0	55	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	7,300	7,300	0	7,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,200	7,200	0	7,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	12,000	12,000	0	12,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	230	230	0	230	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Hexavalent Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	1.90E+07	1.90E+07	0	1.90E+07	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Iron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,700	3,700	0	3,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	270,000	270,000	0	270,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-105_Shallow_2	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	300	300	0	300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,200	8,200	0	8,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	510	510	0	510	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	18	18	0	18	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	23,000	23,000	0	23,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	570	570	0	570	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	320	320	0	320	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	47,000	47,000	0	47,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_2	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	41,000	41,000	0	41,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	7.70E+06	7.70E+06	0	7.70E+06	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aluminum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	120	120	0	120	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Antimony was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,500	2,500	0	2,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	60,000	60,000	0	60,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	310	310	0	310	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	50	50	0	50	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	9,200	9,200	0	9,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,500	7,500	0	7,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-105_Shallow_3	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,000	14,000	0	14,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	160	160	0	160	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Hexavalent Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	1.90E+07	1.90E+07	0	1.90E+07	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Iron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,300	4,300	0	4,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	300,000	300,000	0	300,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	8.8	8.8	0	8.8	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Mercury was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	290	290	0	290	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,000	10,000	0	10,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	540	540	0	540	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	25	25	0	25	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	29,000	29,000	0	29,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	590	590	0	590	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	930	930	0	930	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	43,000	43,000	0	43,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-105_Shallow_3	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	54,000	54,000	0	54,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,570	2,570	0	2,570	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	61,500	61,500	0	61,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	159	159	0	159	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Overburden_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	70	70	0	70	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,450	6,450	0	6,450	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,060	9,060	0	9,060	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,800	14,800	0	14,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,110	5,110	0	5,110	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	315,000	315,000	0	315,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	431	431	0	431	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,020	9,020	0	9,020	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	5,580	5,580	0	5,580	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	33	33	0	33	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	30,800	30,800	0	30,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Thallium	7440-28-0	1	1	0	100	ug/kg	--	--	115	115	0	115	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Thallium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	410	410	0	410	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	502	502	0	502	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	46,800	46,800	0	46,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	41,800	41,800	0	41,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	1,790	2,220	0.12	2,220	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	53,800	59,100	0.048	59,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	208	360	0.27	360	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Overburden_2	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	62	71	0.075	71	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	6,030	17,300	0.66	17,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	8,580	9,230	0.040	9,230	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	14,200	15,800	0.061	15,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	4,020	6,010	0.20	6,010	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	273,000	303,000	0.055	303,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	348	497	0.18	497	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	8,200	13,200	0.29	13,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Nitrate	14797-55-8	3	3	0	100	ug/kg	--	--	5,890	10,000	0.26	10,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Selenium	7782-49-2	3	1	2	33	ug/kg	260	270	252	252	0	252	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-106_Overburden_2	non-Rad	Silver	7440-22-4	3	2	1	67	ug/kg	26	26	30	35	0.12	35	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	3	3	0	100	ug/kg	--	--	27,100	30,200	0.062	30,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	3	3	0	100	ug/kg	--	--	428	534	0.11	534	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Uranium	7440-61-1	3	3	0	100	ug/kg	--	--	420	460	0.051	460	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	47,100	52,400	0.059	52,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_2	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	42,300	47,900	0.062	47,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,460	2,460	0	2,460	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	60,400	60,400	0	60,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	257	257	0	257	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	74	74	0	74	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,970	5,970	0	5,970	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,160	8,160	0	8,160	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,400	15,400	0	15,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Overburden_3	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,050	5,050	0	5,050	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	288,000	288,000	0	288,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	334	334	0	334	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,750	7,750	0	7,750	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	10,800	10,800	0	10,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	35	35	0	35	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	29,600	29,600	0	29,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Thallium	7440-28-0	1	1	0	100	ug/kg	--	--	80	80	0	80	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Thallium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	391	391	0	391	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	673	673	0	673	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	43,600	43,600	0	43,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_3	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	41,500	41,500	0	41,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	1,940	2,170	0.058	2,170	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	51,700	58,400	0.062	58,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	222	310	0.17	310	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	65	71	0.043	71	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	4,570	5,990	0.15	5,990	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	8,340	9,370	0.060	9,370	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	13,300	15,600	0.080	15,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	3,850	7,020	0.36	7,020	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	270,000	312,000	0.074	312,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	345	398	0.081	398	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	7,500	8,290	0.056	8,290	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Nitrate	14797-55-8	3	2	1	67	ug/kg	3,850	3,850	4,870	6,820	0.24	6,820	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Silver	7440-22-4	3	2	1	67	ug/kg	26	26	26	27	0.032	27	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	3	3	0	100	ug/kg	--	--	26,300	29,400	0.057	29,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	3	3	0	100	ug/kg	--	--	370	421	0.068	421	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	3	1	2	33	ug/kg	10,000	10,000	43,000	43,000	0	43,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Uranium	7440-61-1	3	3	0	100	ug/kg	--	--	414	740	0.33	740	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	51,300	54,000	0.027	54,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	43,400	55,000	0.14	55,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	992	992	0	992	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	42,600	42,600	0	42,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	210	210	0	210	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	37	37	0	37	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	2,790	2,790	0	2,790	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	6,380	6,380	0	6,380	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	11,200	11,200	0	11,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	1,990	1,990	0	1,990	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	203,000	203,000	0	203,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	228	228	0	228	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,250	5,250	0	5,250	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	20,500	20,500	0	20,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	332	332	0	332	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	292	292	0	292	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	33,000	33,000	0	33,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	33,200	33,200	0	33,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,320	1,320	0	1,320	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	55,600	55,600	0	55,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	211	211	0	211	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	59	59	0	59	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,510	4,510	0	4,510	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,240	8,240	0	8,240	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,100	15,100	0	15,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Shallow_Focused_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,410	2,410	0	2,410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	250,000	250,000	0	250,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	265	265	0	265	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	6,170	6,170	0	6,170	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	13,100	13,100	0	13,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	21,900	21,900	0	21,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	370	370	0	370	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	367	367	0	367	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	43,500	43,500	0	43,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	34,600	34,600	0	34,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,480	1,480	0	1,480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	58,800	58,800	0	58,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	231	231	0	231	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	52	52	0	52	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,370	5,370	0	5,370	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	10,200	10,200	0	10,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,000	14,000	0	14,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,450	2,450	0	2,450	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	399,000	399,000	0	399,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	490	490	0	490	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,310	7,310	0	7,310	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	6,150	6,150	0	6,150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	20,100	20,100	0	20,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	478	478	0	478	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	1	1	0	100	ug/kg	--	--	6,500	6,500	0	6,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	386	386	0	386	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	57,300	57,300	0	57,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	40,500	40,500	0	40,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,750	1,750	0	1,750	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	59,800	59,800	0	59,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	341	341	0	341	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	70	70	0	70	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,710	5,710	0	5,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,780	9,780	0	9,780	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,900	16,900	0	16,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,340	3,340	0	3,340	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	326,000	326,000	0	326,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	499	499	0	499	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,950	7,950	0	7,950	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	20,900	20,900	0	20,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	34	34	0	34	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	25,300	25,300	0	25,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	547	547	0	547	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	1	1	0	100	ug/kg	--	--	46,000	46,000	0	46,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	470	470	0	470	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	54,800	54,800	0	54,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	43,800	43,800	0	43,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,010	1,010	0	1,010	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	49,000	49,000	0	49,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	187	187	0	187	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	52	52	0	52	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	2,280	2,280	0	2,280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,950	7,950	0	7,950	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,300	14,300	0	14,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	1,830	1,830	0	1,830	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	262,000	262,000	0	262,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	303	303	0	303	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,250	5,250	0	5,250	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	18,900	18,900	0	18,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	402	402	0	402	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	356	356	0	356	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	40,700	40,700	0	40,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	35,000	35,000	0	35,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,730	1,730	0	1,730	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	53,300	53,300	0	53,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	319	319	0	319	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	52	52	0	52	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	3,680	3,680	0	3,680	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-106_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,960	8,960	0	8,960	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,000	15,000	0	15,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,760	2,760	0	2,760	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	261,000	261,000	0	261,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	372	372	0	372	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,110	7,110	0	7,110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	275	275	0	275	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	33	33	0	33	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	29,800	29,800	0	29,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	481	481	0	481	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	488	488	0	488	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	58,000	58,000	0	58,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	39,800	39,800	0	39,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,000	2,000	0	2,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	57,200	57,200	0	57,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	329	329	0	329	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	41	41	0	41	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,070	6,070	0	6,070	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,640	9,640	0	9,640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,200	16,200	0	16,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,380	3,380	0	3,380	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	330,000	330,000	0	330,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	298	298	0	298	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,740	9,740	0	9,740	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	10,400	10,400	0	10,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	253	253	0	253	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	25	25	0	25	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	24,800	24,800	0	24,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	465	465	0	465	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	1	1	0	100	ug/kg	--	--	50,000	50,000	0	50,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	478	478	0	478	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	44,300	44,300	0	44,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-106_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,600	38,600	0	38,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	12	12	0	100	ug/kg	--	--	1,140	3,050	0.35	2,190	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	40,900	72,800	0.19	56,735	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	150	418	0.38	296	95% Adjusted Gamma UCL	--
100-K-109_Shallow	non-Rad	Boron	7440-42-8	12	8	4	67	ug/kg	470	490	552	1,620	0.40	898	95% KM (t) UCL	--
100-K-109_Shallow	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	2,240	9,170	0.53	5,903	95% H-UCL	--
100-K-109_Shallow	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	8,190	10,600	0.075	10,090	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	14,800	19,500	0.080	17,732	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	2,130	6,140	0.37	4,032	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	226,000	377,000	0.15	331,189	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	12	1	11	8.3	ug/kg	46	49	76	76	0	76	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	12	12	0	100	ug/kg	--	--	291	652	0.24	480	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	5,350	11,700	0.24	8,689	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Nitrate	14797-55-8	12	7	5	58	ug/kg	4,210	4,250	4,780	13,100	0.35	7,823	95% KM (t) UCL	--
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	12	12	0	100	ug/kg	--	--	656	1,380	0.21	1,027	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	12	12	0	100	ug/kg	--	--	18,800	29,200	0.15	25,362	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Tin	7440-31-5	12	12	0	100	ug/kg	--	--	334	509	0.13	446	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Uranium	7440-61-1	12	12	0	100	ug/kg	--	--	376	529	0.11	456	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	46,500	67,900	0.12	57,582	95% Student's-t UCL	--
100-K-109_Shallow	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	35,000	48,200	0.10	43,302	95% Student's-t UCL	--
100-K-109_Shallow	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.022	0.022	0	0.022	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	1,400	1,900	0.21	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	56,100	60,200	0.050	60,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Beryllium	7440-41-7	2	2	0	100	ug/kg	--	--	180	300	0.35	300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Cadmium	7440-43-9	2	2	0	100	ug/kg	--	--	61	81	0.20	81	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Chromium	7440-47-3	2	2	0	100	ug/kg	--	--	4,200	7,900	0.43	7,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Cobalt	7440-48-4	2	2	0	100	ug/kg	--	--	9,800	10,100	0.021	10,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Copper	7440-50-8	2	2	0	100	ug/kg	--	--	18,100	18,500	0.015	18,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	2	1	1	50	ug/kg	155	155	167	167	0	167	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Lead	7439-92-1	2	2	0	100	ug/kg	--	--	2,000	2,200	0.067	2,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Manganese	7439-96-5	2	2	0	100	ug/kg	--	--	299,000	359,000	0.13	359,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	2	1	1	50	ug/kg	11	11	14	14	0	14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	2	2	0	100	ug/kg	--	--	450	480	0.046	480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Nickel	7440-02-0	2	2	0	100	ug/kg	--	--	6,300	6,500	0.022	6,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Nitrate	14797-55-8	2	1	1	50	ug/kg	4,250	4,250	5,050	5,050	0	5,050	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	2	2	0	100	ug/kg	--	--	1,600	1,900	0.12	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Silver	7440-22-4	2	2	0	100	ug/kg	--	--	43	47	0.063	47	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	2	2	0	100	ug/kg	--	--	18,100	21,700	0.13	21,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	2	2	0	100	ug/kg	--	--	460	970	0.50	970	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Uranium	7440-61-1	2	2	0	100	ug/kg	--	--	300	460	0.30	460	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Vanadium	7440-62-2	2	2	0	100	ug/kg	--	--	71,900	75,500	0.035	75,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-109_Shallow_Focused	non-Rad	Zinc	7440-66-6	2	2	0	100	ug/kg	--	--	50,600	56,100	0.073	56,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-110_Shallow	non-Rad	Aluminum	7429-90-5	36	36	0	100	ug/kg	--	--	4.20E+06	1.02E+07	0.19	7.00E+06	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	26	21	5	81	ug/kg	170	330	369	7,120	0.93	4,417	95% GROS Adjusted Gamma UCL	--
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	36	36	0	100	ug/kg	--	--	1,600	17,300	0.80	8,694	95% Chebyshev (Mean, Sd) UCL	--
100-K-110_Shallow	non-Rad	Barium	7440-39-3	36	36	0	100	ug/kg	--	--	41,100	130,000	0.26	73,627	95% Modified-t UCL	--
100-K-110_Shallow	non-Rad	Beryllium	7440-41-7	36	35	1	97	ug/kg	110	110	155	554	0.26	326	95% KM (t) UCL	--
100-K-110_Shallow	non-Rad	Cadmium	7440-43-9	36	10	26	28	ug/kg	110	110	70	318	0.38	118	95% KM (t) UCL	--
100-K-110_Shallow	non-Rad	Chromium	7440-47-3	36	36	0	100	ug/kg	--	--	3,910	10,800	0.26	7,294	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Cobalt	7440-48-4	36	36	0	100	ug/kg	--	--	5,950	15,200	0.18	11,749	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Copper	7440-50-8	36	36	0	100	ug/kg	--	--	14,800	27,000	0.15	20,605	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	36	12	24	33	ug/kg	99	110	148	445	0.41	199	95% KM (t) UCL	--
100-K-110_Shallow	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	3.35E+07	3.35E+07	0	3.35E+07	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Iron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-110_Shallow	non-Rad	Lead	7439-92-1	36	36	0	100	ug/kg	--	--	2,410	18,500	0.60	6,648	95% Modified-t UCL	--
100-K-110_Shallow	non-Rad	Manganese	7439-96-5	36	36	0	100	ug/kg	--	--	267,000	632,000	0.20	412,928	95% Adjusted Gamma UCL	--
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	36	13	23	36	ug/kg	6.3	55	73	2,540	1.4	431	95% Gamma Adjusted KM-UCL	--
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	36	36	0	100	ug/kg	--	--	368	850	0.21	587	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Nickel	7440-02-0	36	36	0	100	ug/kg	--	--	4,900	15,200	0.30	10,586	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	36	16	20	44	ug/kg	3,200	3,300	616	2,310	0.34	1,813	95% KM (t) UCL	--
100-K-110_Shallow	non-Rad	Silver	7440-22-4	36	1	35	2.8	ug/kg	110	110	38	38	0	38	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Silver was not processed!
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	36	36	0	100	ug/kg	--	--	21,500	77,600	0.37	40,258	95% Modified-t UCL	--
100-K-110_Shallow	non-Rad	Thallium	7440-28-0	36	3	33	8.3	ug/kg	110	110	139	396	0.48	142	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-110_Shallow	non-Rad	Tin	7440-31-5	36	36	0	100	ug/kg	--	--	469	2,250	0.53	994	95% Modified-t UCL	--
100-K-110_Shallow	non-Rad	Vanadium	7440-62-2	36	36	0	100	ug/kg	--	--	42,500	113,000	0.20	82,610	95% Student's-t UCL	--
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	36	36	0	100	ug/kg	--	--	45,700	212,000	0.39	76,549	95% Modified-t UCL	--
100-K-110_Shallow	Rad	Cesium-137	10045-97-3	36	3	33	8.3	pCi/g	-1.90E-02	0.023	0.012	0.094	0.71	0.094	Maximum Detect	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-110_Shallow	Rad	Europium-155	14391-16-3	36	1	35	2.8	pCi/g	-8.10E-02	0.26	0.034	0.034	0	0.034	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-155 was not processed!
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	770	1,870	0.55	1,870	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-110_Shallow_focused	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	1,460	8,640	0.75	8,640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-110_Shallow_focused	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	2,370	5,630	0.41	5,630	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	3	2	1	67	ug/kg	49	49	110	110	0	110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	12	12	0	100	ug/kg	--	--	2,400	5,910	0.27	4,152	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	12	11	1	92	ug/kg	532	532	832	3,510	0.45	2,120	95% KM (t) UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	45,900	80,800	0.15	69,924	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	1,270	1,940	0.12	1,633	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	12	12	0	100	ug/kg	--	--	6,450	12,400	0.19	10,604	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	1,930	15,300	0.71	9,578	95% Adjusted Gamma UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	6,730	12,500	0.15	10,836	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	14,500	24,200	0.12	20,884	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	3,370	13,100	0.42	7,373	95% Modified-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	265,000	460,000	0.15	398,037	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	12	10	2	83	ug/kg	4.2	4.8	4.9	1,430	1.4	492	95% KM (t) UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	12	12	0	100	ug/kg	--	--	416	2,940	0.79	1,222	95% Modified-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	4,010	11,100	0.28	7,912	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Nitrate	14797-55-8	12	9	3	75	ug/kg	1,530	1,660	1,830	4,100	0.30	2,636	95% KM (t) UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	12	10	2	83	ug/kg	506	532	833	1,520	0.20	1,141	95% KM (t) UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	12	12	0	100	ug/kg	--	--	612	1,100	0.17	958	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	75,800	123,000	0.13	99,067	95% Student's-t UCL	--
100-K-14, 126-KE-2_Shallow	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	42,200	60,500	0.090	56,730	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Arsenic	7440-38-2	8	8	0	100	ug/kg	--	--	1,340	3,010	0.29	2,390	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Barium	7440-39-3	8	8	0	100	ug/kg	--	--	50,700	64,700	0.093	60,009	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Beryllium	7440-41-7	8	1	7	13	ug/kg	500	500	502	502	0	502	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Beryllium was not processed!
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Boron	7440-42-8	8	8	0	100	ug/kg	--	--	572	1,570	0.40	1,046	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	3,810	7,120	0.22	6,226	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Cobalt	7440-48-4	8	8	0	100	ug/kg	--	--	10,800	12,100	0.043	11,920	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Copper	7440-50-8	8	8	0	100	ug/kg	--	--	17,100	19,000	0.035	18,341	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Lead	7439-92-1	8	8	0	100	ug/kg	--	--	2,760	4,630	0.19	4,184	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Manganese	7439-96-5	8	8	0	100	ug/kg	--	--	336,000	411,000	0.084	392,477	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Molybdenum	7439-98-7	8	8	0	100	ug/kg	--	--	449	674	0.13	574	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nickel	7440-02-0	8	8	0	100	ug/kg	--	--	7,560	11,600	0.16	10,109	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nitrate	14797-55-8	8	3	5	38	ug/kg	4,210	4,210	5,750	29,800	0.79	15,456	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	8	8	0	100	ug/kg	--	--	2,100	2,500	0.067	2,351	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Strontium	7440-24-6	8	8	0	100	ug/kg	--	--	23,200	28,700	0.065	27,842	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Tin	7440-31-5	8	8	0	100	ug/kg	--	--	456	617	0.100	583	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Uranium	7440-61-1	8	8	0	100	ug/kg	--	--	392	490	0.068	490	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Vanadium	7440-62-2	8	8	0	100	ug/kg	--	--	75,900	87,100	0.047	84,281	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Zinc	7440-66-6	8	8	0	100	ug/kg	--	--	50,200	55,200	0.034	53,650	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,500	1,750	0.072	1,750	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	51,900	71,000	0.13	70,219	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,250	1,930	0.19	1,930	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,560	6,300	0.062	6,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	10,800	12,300	0.057	12,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,100	18,900	0.077	18,831	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	4	1	3	25	ug/kg	100	100	174	174	0	174	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,890	3,990	0.14	3,900	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	337,000	463,000	0.14	453,916	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	4	4	0	100	ug/kg	--	--	59	241	0.49	241	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	518	770	0.20	733	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,940	8,930	0.056	8,930	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nitrate	14797-55-8	4	3	1	75	ug/kg	4,210	4,210	6,290	12,900	0.40	12,309	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	2,100	2,400	0.061	2,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	24,600	28,000	0.054	27,929	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	538	689	0.13	672	95% Modified-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	411	498	0.094	498	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	72,800	94,900	0.12	94,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	47,900	56,500	0.073	56,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Arsenic	7440-38-2	20	20	0	100	ug/kg	--	--	1,530	13,100	0.71	4,335	95% Modified-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Barium	7440-39-3	20	20	0	100	ug/kg	--	--	55,300	97,900	0.14	75,392	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Beryllium	7440-41-7	20	7	13	35	ug/kg	470	530	261	509	0.25	414	95% KM (t) UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Boron	7440-42-8	20	20	0	100	ug/kg	--	--	762	2,600	0.37	1,701	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cadmium	7440-43-9	20	5	15	25	ug/kg	93	110	58	133	0.30	93	95% KM (t) UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Chromium	7440-47-3	20	20	0	100	ug/kg	--	--	5,010	12,500	0.24	9,100	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cobalt	7440-48-4	20	20	0	100	ug/kg	--	--	7,630	13,500	0.11	12,643	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Copper	7440-50-8	20	20	0	100	ug/kg	--	--	14,700	22,400	0.084	20,484	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	20	5	15	25	ug/kg	94	400	105	862	0.91	233	95% KM (t) UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Lead	7439-92-1	20	20	0	100	ug/kg	--	--	3,030	12,400	0.41	6,780	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Manganese	7439-96-5	20	20	0	100	ug/kg	--	--	343,000	487,000	0.097	421,132	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	20	4	16	20	ug/kg	47	54	71	126	0.28	68	95% KM (t) UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Molybdenum	7439-98-7	20	20	0	100	ug/kg	--	--	244	962	0.24	622	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nickel	7440-02-0	20	20	0	100	ug/kg	--	--	7,940	12,900	0.12	11,208	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nitrate	14797-55-8	20	13	7	65	ug/kg	4,160	4,250	4,470	28,200	0.68	24,794	95% GROS Adjusted Gamma UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	20	19	1	95	ug/kg	260	260	307	1,390	0.34	1,057	95% KM (t) UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Strontium	7440-24-6	20	20	0	100	ug/kg	--	--	25,100	42,200	0.14	34,319	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Tin	7440-31-5	20	20	0	100	ug/kg	--	--	328	783	0.16	626	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Uranium	7440-61-1	20	20	0	100	ug/kg	--	--	438	748	0.12	639	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	20	20	0	100	ug/kg	--	--	34,800	103,000	0.20	87,520	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Zinc	7440-66-6	20	20	0	100	ug/kg	--	--	35,900	65,200	0.12	60,142	95% Student's-t UCL	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,600	1,600	0	1,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	54,400	54,400	0	54,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	210	210	0	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	61	61	0	61	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	9,600	9,600	0	9,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,400	9,400	0	9,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	17,400	17,400	0	17,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	764	764	0	764	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,100	2,100	0	2,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	294,000	294,000	0	294,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	290	290	0	290	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	510	510	0	510	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	6,100	6,100	0	6,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	1,700	1,700	0	1,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	53	53	0	53	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	20,500	20,500	0	20,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	480	480	0	480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	380	380	0	380	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	82,400	82,400	0	82,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	55,700	55,700	0	55,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	5	1	4	20	ug/kg	15	47	98	98	0	98	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	430	2,300	0.97	2,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	5,000	66,400	1.2	66,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	2	2	0	100	ug/kg	--	--	110	130	0.12	130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	2,000	24,700	0.70	24,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	5	1	4	20	ug/kg	220	400	3,200	3,200	0	3,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	3,200	63,200	1.00	63,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	2	1	1	50	ug/kg	20	20	50	50	0	50	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Acenaphthene	83-32-9	6	4	2	67	ug/kg	20	400	21	50	0.43	41	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Anthracene	120-12-7	6	1	5	17	ug/kg	0.94	31	1.4	1.4	0	1.4	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Anthracene was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Antimony	7440-36-0	6	1	5	17	ug/kg	160	340	1,520	1,520	0	1,520	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1016	12674-11-2	6	1	5	17	ug/kg	4.0	4.0	5.7	5.7	0	5.7	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aroclor-1016 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1254	11097-69-1	6	2	4	33	ug/kg	4.0	4.0	12	18	0.28	17	95% KM H-UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1260	11096-82-5	6	1	5	17	ug/kg	4.0	4.0	17	17	0	17	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aroclor-1260 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Arsenic	7440-38-2	6	6	0	100	ug/kg	--	--	1,950	4,890	0.39	4,321	95% Adjusted Gamma UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Barium	7440-39-3	6	6	0	100	ug/kg	--	--	45,400	76,500	0.17	72,619	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(a)anthracene	56-55-3	6	6	0	100	ug/kg	--	--	2.7	57	1.5	57	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(a)pyrene	50-32-8	6	6	0	100	ug/kg	--	--	2.2	50	1.4	50	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	6	6	0	100	ug/kg	--	--	3.6	67	1.4	67	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	6	5	1	83	ug/kg	32	32	1.5	7.5	0.74	5.6	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Beryllium	7440-41-7	6	6	0	100	ug/kg	--	--	155	317	0.25	307	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Boron	7440-42-8	6	5	1	83	ug/kg	560	560	668	1,430	0.32	1,129	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Cadmium	7440-43-9	6	4	2	67	ug/kg	52	56	57	104	0.27	87	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Chromium	7440-47-3	6	6	0	100	ug/kg	--	--	3,250	7,500	0.27	6,988	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Chrysene	218-01-9	6	6	0	100	ug/kg	--	--	4.2	94	1.6	94	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Cobalt	7440-48-4	6	6	0	100	ug/kg	--	--	7,560	10,800	0.14	9,620	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Copper	7440-50-8	6	6	0	100	ug/kg	--	--	14,800	20,300	0.13	18,087	95% Modified-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Dibenz(a,h)anthracene	53-70-3	6	2	4	33	ug/kg	3.2	65	4.2	6.4	0.29	5.6	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Fluoranthene	206-44-0	6	6	0	100	ug/kg	--	--	7.6	95	1.3	95	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Fluorene	86-73-7	6	2	4	33	ug/kg	2.9	60	2.9	3.0	0.024	3.0	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	6	5	1	83	ug/kg	25	25	1.6	6.7	0.66	5.1	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Lead	7439-92-1	6	6	0	100	ug/kg	--	--	3,310	6,620	0.28	5,538	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Manganese	7439-96-5	6	6	0	100	ug/kg	--	--	253,000	335,000	0.11	315,657	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Mercury	7439-97-6	6	1	5	17	ug/kg	26	56	28	28	0	28	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Molybdenum	7439-98-7	6	6	0	100	ug/kg	--	--	187	491	0.39	374	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Naphthalene	91-20-3	6	1	5	17	ug/kg	22	460	25	25	0	25	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Naphthalene was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Nickel	7440-02-0	6	6	0	100	ug/kg	--	--	6,690	10,100	0.14	9,603	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Nitrate	14797-55-8	6	4	2	67	ug/kg	4,030	4,120	4,600	8,810	0.30	6,970	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Pyrene	129-00-0	6	6	0	100	ug/kg	--	--	4.9	120	1.6	109	95% Chebyshev (Mean, Sd) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Selenium	7782-49-2	6	1	5	17	ug/kg	240	280	285	285	0	285	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Silver	7440-22-4	6	3	3	50	ug/kg	50	56	37	77	0.36	63	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Strontium	7440-24-6	6	6	0	100	ug/kg	--	--	24,000	37,900	0.18	34,076	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Tin	7440-31-5	6	6	0	100	ug/kg	--	--	313	758	0.39	664	95% Adjusted Gamma UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Uranium	7440-61-1	6	6	0	100	ug/kg	--	--	355	640	0.24	557	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Vanadium	7440-62-2	6	6	0	100	ug/kg	--	--	23,600	59,400	0.35	47,848	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Zinc	7440-66-6	6	6	0	100	ug/kg	--	--	30,700	53,400	0.21	44,799	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Americium-241	14596-10-2	6	4	2	67	pCi/g	0.0043	0.014	0.014	0.026	0.25	0.025	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Cesium-137	10045-97-3	6	1	5	17	pCi/g	-1.80E-02	-5.70E-03	0.062	0.062	0	0.062	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Plutonium-239/240	PU-239/240	6	4	2	67	pCi/g	0.0041	0.0080	0.0088	0.033	0.46	0.027	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Strontium-90	10098-97-2	6	1	5	17	pCi/g	-2.60E-01	0.76	0.72	0.72	0	0.72	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Strontium-90 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-233/234	U-233/234	6	6	0	100	pCi/g	--	--	0.13	0.19	0.13	0.18	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-235	15117-96-1	6	5	1	83	pCi/g	0.0071	0.0071	0.0069	0.012	0.20	0.012	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-238	U-238	6	6	0	100	pCi/g	--	--	0.13	0.18	0.11	0.17	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	880	880	0	880	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Anthracene	120-12-7	1	1	0	100	ug/kg	--	--	71	71	0	71	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	597	597	0	597	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Aroclor-1260	11096-82-5	1	1	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,800	2,800	0	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	42,600	42,600	0	42,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	230	230	0	230	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	160	160	0	160	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	220	220	0	220	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	93	93	0	93	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	133	133	0	133	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	707	707	0	707	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	80	80	0	80	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,120	4,120	0	4,120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	280	280	0	280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	6,600	6,600	0	6,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,800	15,800	0	15,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Dibenz(a,h)anthracene	53-70-3	1	1	0	100	ug/kg	--	--	130	130	0	130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	480	480	0	480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	59	59	0	59	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	120	120	0	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,430	4,430	0	4,430	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	217,000	217,000	0	217,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	331	331	0	331	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Naphthalene	91-20-3	1	1	0	100	ug/kg	--	--	480	480	0	480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,010	7,010	0	7,010	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	12,100	12,100	0	12,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	390	390	0	390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	23,300	23,300	0	23,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	808	808	0	808	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	308	308	0	308	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	28,700	28,700	0	28,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	31,500	31,500	0	31,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.037	0.037	0	0.037	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	6.2	6.2	0	6.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.11	0.11	0	0.11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.11	0.11	0	0.11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Aroclor-1260	11096-82-5	1	1	0	100	ug/kg	--	--	53	53	0	53	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aroclor-1260 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,000	2,000	0	2,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	48,000	48,000	0	48,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	22	22	0	22	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)anthracene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	18	18	0	18	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	25	25	0	25	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(b)fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	214	214	0	214	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	664	664	0	664	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	56	56	0	56	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,160	4,160	0	4,160	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	29	29	0	29	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chrysene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,180	8,180	0	8,180	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,000	16,000	0	16,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	48	48	0	48	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	14	14	0	14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Indeno(1,2,3-cd)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,860	2,860	0	2,860	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	265,000	265,000	0	265,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	195	195	0	195	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,500	7,500	0	7,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	8,010	8,010	0	8,010	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	46	46	0	46	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	24,500	24,500	0	24,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	372	372	0	372	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	344	344	0	344	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	30,500	30,500	0	30,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	34,100	34,100	0	34,100	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.18	0.18	0	0.18	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Americium-241 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-238	13981-16-3	1	1	0	100	pCi/g	--	--	0.036	0.036	0	0.036	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	5.4	5.4	0	5.4	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium-90 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.13	0.13	0	0.13	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.017	0.017	0	0.017	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-235 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	4	2	2	50	ug/kg	20	200	32	160	0.94	160	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	4	2	2	50	ug/kg	0.96	9.5	1.5	2.1	0.24	2.1	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	8	1	7	13	ug/kg	150	310	374	374	0	374	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	4	1	3	25	ug/kg	4.0	4.0	17	17	0	17	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aroclor-1254 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	4	1	3	25	ug/kg	4.0	4.0	24	24	0	24	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aroclor-1260 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	8	8	0	100	ug/kg	--	--	2,010	3,710	0.19	3,376	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Barium	7440-39-3	8	8	0	100	ug/kg	--	--	45,400	72,800	0.13	70,180	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	4	4	0	100	ug/kg	--	--	3.6	49	0.91	49	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	4	4	0	100	ug/kg	--	--	2.9	52	1.0	49	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	4	4	0	100	ug/kg	--	--	4.1	73	1.00	73	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	4	4	0	100	ug/kg	--	--	2.5	32	0.95	32	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Beryllium	7440-41-7	8	8	0	100	ug/kg	--	--	205	374	0.18	312	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Boron	7440-42-8	8	8	0	100	ug/kg	--	--	692	2,610	0.41	1,900	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cadmium	7440-43-9	8	6	2	75	ug/kg	48	52	71	112	0.18	97	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	5,260	8,690	0.14	7,672	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	4	3	1	75	ug/kg	15	15	6.5	75	0.76	75	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cobalt	7440-48-4	8	8	0	100	ug/kg	--	--	6,650	9,780	0.13	9,148	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Copper	7440-50-8	8	8	0	100	ug/kg	--	--	13,500	18,600	0.11	17,544	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	4	1	3	25	ug/kg	3.2	32	42	42	0	42	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Dibenz(a,h)anthracene was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	4	4	0	100	ug/kg	--	--	8.2	96	0.92	88	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	4	1	3	25	ug/kg	2.9	29	6.3	6.3	0	6.3	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Fluorene was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	8	1	7	13	ug/kg	99	100	102	102	0	102	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	4	4	0	100	ug/kg	--	--	2.2	27	0.95	27	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Lead	7439-92-1	8	8	0	100	ug/kg	--	--	3,530	9,110	0.29	7,602	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Manganese	7439-96-5	8	8	0	100	ug/kg	--	--	241,000	368,000	0.13	344,962	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	8	2	6	25	ug/kg	25	52	63	63	0.0079	50	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	8	8	0	100	ug/kg	--	--	256	1,150	0.67	733	95% Adjusted Gamma UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	4	2	2	50	ug/kg	23	220	26	39	0.28	39	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nickel	7440-02-0	8	8	0	100	ug/kg	--	--	7,430	11,500	0.12	10,440	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nitrate	14797-55-8	8	8	0	100	ug/kg	--	--	4,120	19,000	0.47	12,632	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	4	4	0	100	ug/kg	--	--	7.8	66	0.79	66	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Selenium	7782-49-2	8	2	6	25	ug/kg	240	270	261	270	0.024	258	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Silver	7440-22-4	8	1	7	13	ug/kg	48	54	36	36	0	36	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Silver was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	8	8	0	100	ug/kg	--	--	22,100	31,300	0.10	31,056	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	8	8	0	100	ug/kg	--	--	279	541	0.21	503	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Uranium	7440-61-1	8	8	0	100	ug/kg	--	--	342	543	0.15	464	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Vanadium	7440-62-2	8	8	0	100	ug/kg	--	--	28,900	57,700	0.25	49,526	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Zinc	7440-66-6	8	8	0	100	ug/kg	--	--	31,300	59,600	0.20	49,004	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	8	4	4	50	pCi/g	0.0077	0.020	0.021	0.047	0.33	0.031	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Cesium-137	10045-97-3	8	6	2	75	pCi/g	0.0054	0.034	0.047	0.59	1.0	0.29	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	8	1	7	13	pCi/g	-6.50E-02	0.054	0.15	0.15	0	0.15	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	8	4	4	50	pCi/g	0.0065	0.012	0.0099	0.052	0.79	0.027	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-233/234	U-233/234	8	8	0	100	pCi/g	--	--	0.12	0.21	0.21	0.18	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-235	15117-96-1	8	7	1	88	pCi/g	0.013	0.013	0.0080	0.026	0.39	0.018	95% KM (t) UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-238	U-238	8	8	0	100	pCi/g	--	--	0.16	0.20	0.100	0.19	95% Student's-t UCL	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	49	49	0	49	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,640	1,640	0	1,640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	48,800	48,800	0	48,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	11	11	0	11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	8.1	8.1	0	8.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	15	15	0	15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	7.6	7.6	0	7.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	197	197	0	197	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	2,900	2,900	0	2,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	18	18	0	18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,120	8,120	0	8,120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,700	14,700	0	14,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	24	24	0	24	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	5.3	5.3	0	5.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,190	3,190	0	3,190	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	258,000	258,000	0	258,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	224	224	0	224	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	1	1	0	100	ug/kg	--	--	23	23	0	23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	6,370	6,370	0	6,370	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	8,680	8,680	0	8,680	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	19	19	0	19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	24,000	24,000	0	24,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	345	345	0	345	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	369	369	0	369	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	30,700	30,700	0	30,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	33,600	33,600	0	33,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.057	0.057	0	0.057	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.13	0.13	0	0.13	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.017	0.017	0	0.017	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,110	2,110	0	2,110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	68,900	68,900	0	68,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	1.0	1.0	0	1.0	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	303	303	0	303	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,920	6,920	0	6,920	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,860	9,860	0	9,860	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,900	18,900	0	18,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	4.5	4.5	0	4.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,520	3,520	0	3,520	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	335,000	335,000	0	335,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	242	242	0	242	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	11,100	11,100	0	11,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	300	300	0	300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	31,600	31,600	0	31,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	446	446	0	446	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	485	485	0	485	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	42,400	42,400	0	42,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	42,500	42,500	0	42,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.021	0.021	0	0.021	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.016	0.016	0	0.016	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0097	0.0097	0	0.0097	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,100	2,100	0	2,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	56,800	56,800	0	56,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	283	283	0	283	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	56	56	0	56	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,960	4,960	0	4,960	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,130	8,130	0	8,130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,700	15,700	0	15,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,940	2,940	0	2,940	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	266,000	266,000	0	266,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	222	222	0	222	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,710	7,710	0	7,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	25,500	25,500	0	25,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	404	404	0	404	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	408	408	0	408	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	35,600	35,600	0	35,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	33,800	33,800	0	33,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.020	0.020	0	0.020	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	64	64	0	64	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,830	2,830	0	2,830	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	62,500	62,500	0	62,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	13	13	0	13	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	14	14	0	14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	19	19	0	19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	8.1	8.1	0	8.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	267	267	0	267	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	958	958	0	958	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	70	70	0	70	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,900	5,900	0	5,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	21	21	0	21	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,030	8,030	0	8,030	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,800	14,800	0	14,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	33	33	0	33	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	4.4	4.4	0	4.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	7.7	7.7	0	7.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,150	5,150	0	5,150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	303,000	303,000	0	303,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	223	223	0	223	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	1	1	0	100	ug/kg	--	--	43	43	0	43	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,520	9,520	0	9,520	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	23	23	0	23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	30,700	30,700	0	30,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	341	341	0	341	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	506	506	0	506	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	28,800	28,800	0	28,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	36,700	36,700	0	36,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.020	0.020	0	0.020	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0063	0.0063	0	0.0063	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	210	210	0	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,990	2,990	0	2,990	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	69,700	69,700	0	69,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	67	67	0	67	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	62	62	0	62	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	88	88	0	88	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	38	38	0	38	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	277	277	0	277	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,700	1,700	0	1,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	75	75	0	75	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	8,670	8,670	0	8,670	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	81	81	0	81	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,980	8,980	0	8,980	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,900	16,900	0	16,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	1	1	0	100	ug/kg	--	--	51	51	0	51	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	81	81	0	81	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	40	40	0	40	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	6,080	6,080	0	6,080	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	318,000	318,000	0	318,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	273	273	0	273	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,300	10,300	0	10,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	5,000	5,000	0	5,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	77	77	0	77	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	34,100	34,100	0	34,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	398	398	0	398	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	506	506	0	506	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	36,000	36,000	0	36,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,800	38,800	0	38,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.20	0.20	0	0.20	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0070	0.0070	0	0.0070	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.23	0.23	0	0.23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	550	550	0	550	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	319	319	0	319	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	3,700	3,700	0	3,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	55,200	55,200	0	55,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	99	99	0	99	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	110	110	0	110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	150	150	0	150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	63	63	0	63	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	291	291	0	291	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	2,970	2,970	0	2,970	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	63	63	0	63	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	8,390	8,390	0	8,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	170	170	0	170	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,390	8,390	0	8,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,500	16,500	0	16,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	1	1	0	100	ug/kg	--	--	35	35	0	35	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	210	210	0	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	73	73	0	73	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	42,200	42,200	0	42,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	275,000	275,000	0	275,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	483	483	0	483	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	19,100	19,100	0	19,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	130	130	0	130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	30,500	30,500	0	30,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	983	983	0	983	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	437	437	0	437	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	23,900	23,900	0	23,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	32,700	32,700	0	32,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.022	0.022	0	0.022	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.11	0.11	0	0.11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0099	0.0099	0	0.0099	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	310	310	0	310	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,680	2,680	0	2,680	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	61,600	61,600	0	61,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	65	65	0	65	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	31	31	0	31	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	57	57	0	57	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	25	25	0	25	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	342	342	0	342	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,600	1,600	0	1,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	72	72	0	72	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	7,710	7,710	0	7,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	87	87	0	87	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,670	8,670	0	8,670	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,600	15,600	0	15,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	150	150	0	150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	22	22	0	22	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,710	5,710	0	5,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	308,000	308,000	0	308,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	282	282	0	282	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,200	10,200	0	10,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	100	100	0	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	31,200	31,200	0	31,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	412	412	0	412	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	484	484	0	484	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	35,200	35,200	0	35,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,600	38,600	0	38,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.16	0.16	0	0.16	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0077	0.0077	0	0.0077	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	27	27	0	27	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,830	2,830	0	2,830	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	62,200	62,200	0	62,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	5.3	5.3	0	5.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	2.4	2.4	0	2.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	5.6	5.6	0	5.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	1.9	1.9	0	1.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	311	311	0	311	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,710	4,710	0	4,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	9.3	9.3	0	9.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,770	8,770	0	8,770	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,400	18,400	0	18,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	16	16	0	16	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	1.4	1.4	0	1.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,020	4,020	0	4,020	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	290,000	290,000	0	290,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	215	215	0	215	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,650	8,650	0	8,650	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	9.1	9.1	0	9.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	301	301	0	301	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	30,000	30,000	0	30,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	376	376	0	376	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	436	436	0	436	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	30,600	30,600	0	30,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,000	38,000	0	38,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.022	0.022	0	0.022	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.18	0.18	0	0.18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0079	0.0079	0	0.0079	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.19	0.19	0	0.19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	3,090	3,090	0	3,090	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	64,200	64,200	0	64,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	1.1	1.1	0	1.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	272	272	0	272	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	806	806	0	806	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	87	87	0	87	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	8,670	8,670	0	8,670	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,260	8,260	0	8,260	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,800	16,800	0	16,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	5.2	5.2	0	5.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	24,100	24,100	0	24,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	324,000	324,000	0	324,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	272	272	0	272	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	11,100	11,100	0	11,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	17,400	17,400	0	17,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	2.8	2.8	0	2.8	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	29,900	29,900	0	29,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	399	399	0	399	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	529	529	0	529	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	35,800	35,800	0	35,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	40,200	40,200	0	40,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.028	0.028	0	0.028	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	1,400	1,400	0	1,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,610	2,610	0	2,610	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	58,000	58,000	0	58,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	280	280	0	280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	120	120	0	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	210	210	0	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	96	96	0	96	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	296	296	0	296	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	4,990	4,990	0	4,990	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,700	6,700	0	6,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	350	350	0	350	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,150	8,150	0	8,150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,500	16,500	0	16,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	1	1	0	100	ug/kg	--	--	68	68	0	68	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	880	880	0	880	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	100	100	0	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	63	63	0	63	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,780	4,780	0	4,780	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	306,000	306,000	0	306,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	250	250	0	250	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,500	9,500	0	9,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	4,560	4,560	0	4,560	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	590	590	0	590	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	26,500	26,500	0	26,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	403	403	0	403	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	370	370	0	370	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	38,200	38,200	0	38,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,200	38,200	0	38,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0078	0.0078	0	0.0078	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.19	0.19	0	0.19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	31	31	0	31	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	1	1	0	100	ug/kg	--	--	4.6	4.6	0	4.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,700	2,700	0	2,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	66,000	66,000	0	66,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	7.9	7.9	0	7.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	7.5	7.5	0	7.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	11	11	0	11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	4.5	4.5	0	4.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	229	229	0	229	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	64	64	0	64	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,520	6,520	0	6,520	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	1,900	1,900	0	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,360	9,360	0	9,360	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,800	18,800	0	18,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	24	24	0	24	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	4.1	4.1	0	4.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	5.6	5.6	0	5.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,690	3,690	0	3,690	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	331,000	331,000	0	331,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	244	244	0	244	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,500	10,500	0	10,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	59	59	0	59	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	32,000	32,000	0	32,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	431	431	0	431	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	528	528	0	528	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	35,100	35,100	0	35,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	39,200	39,200	0	39,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.070	0.070	0	0.070	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.50	0.50	0	0.50	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.12	0.12	0	0.12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	1.5	1.5	0	1.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.23	0.23	0	0.23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.022	0.022	0	0.022	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.21	0.21	0	0.21	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,290	1,290	0	1,290	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	40,000	40,000	0	40,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	175	175	0	175	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	549	549	0	549	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	1,450	1,450	0	1,450	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,830	7,830	0	7,830	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,400	14,400	0	14,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	5.7	5.7	0	5.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,070	2,070	0	2,070	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	205,000	205,000	0	205,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	175	175	0	175	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,200	5,200	0	5,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	282	282	0	282	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	21,600	21,600	0	21,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	283	283	0	283	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	373	373	0	373	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	24,700	24,700	0	24,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	27,300	27,300	0	27,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.030	0.030	0	0.030	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.18	0.18	0	0.18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	410	410	0	410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	1	1	0	100	ug/kg	--	--	29	29	0	29	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,390	2,390	0	2,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	51,800	51,800	0	51,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	150	150	0	150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	71	71	0	71	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	120	120	0	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	56	56	0	56	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	247	247	0	247	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	2,010	2,010	0	2,010	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	62	62	0	62	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	7,090	7,090	0	7,090	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	6,860	6,860	0	6,860	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	13,800	13,800	0	13,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	330	330	0	330	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	4.4	4.4	0	4.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	32	32	0	32	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,070	5,070	0	5,070	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	247,000	247,000	0	247,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	211	211	0	211	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	1	1	0	100	ug/kg	--	--	280	280	0	280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,640	8,640	0	8,640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	4,390	4,390	0	4,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	220	220	0	220	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	29,800	29,800	0	29,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	284	284	0	284	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	371	371	0	371	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	23,700	23,700	0	23,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	31,100	31,100	0	31,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.030	0.030	0	0.030	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.018	0.018	0	0.018	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.18	0.18	0	0.18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.018	0.018	0	0.018	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	1	1	0	100	ug/kg	--	--	58	58	0	58	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Acenaphthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	1	1	0	100	ug/kg	--	--	28	28	0	28	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aroclor-1254 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,710	1,710	0	1,710	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	45,400	45,400	0	45,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)anthracene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	14	14	0	14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(b)fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	6.9	6.9	0	6.9	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(k)fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	189	189	0	189	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	83	83	0	83	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	2,370	2,370	0	2,370	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	18	18	0	18	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chrysene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,920	7,920	0	7,920	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,600	15,600	0	15,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	29	29	0	29	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	1	1	0	100	ug/kg	--	--	4.5	4.5	0	4.5	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Fluorene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	7.4	7.4	0	7.4	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Indeno(1,2,3-cd)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,330	3,330	0	3,330	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	218,000	218,000	0	218,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	234	234	0	234	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	1	1	0	100	ug/kg	--	--	29	29	0	29	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Naphthalene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,650	5,650	0	5,650	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	23	23	0	23	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	23,200	23,200	0	23,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	318	318	0	318	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	408	408	0	408	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	28,100	28,100	0	28,100	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	30,900	30,900	0	30,900	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.011	0.011	0	0.011	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.12	0.12	0	0.12	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.014	0.014	0	0.014	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-235 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.16	0.16	0	0.16	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	392	392	0	392	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Antimony was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	1	1	0	100	ug/kg	--	--	250	250	0	250	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aroclor-1260 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	3,830	3,830	0	3,830	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	72,600	72,600	0	72,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	36	36	0	36	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)anthracene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	23	23	0	23	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(a)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	35	35	0	35	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(b)fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	15	15	0	15	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Benzo(k)fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	357	357	0	357	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,450	1,450	0	1,450	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	104	104	0	104	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,600	6,600	0	6,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	41	41	0	41	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chrysene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,670	9,670	0	9,670	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,400	18,400	0	18,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	89	89	0	89	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Fluoranthene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	24	24	0	24	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Indeno(1,2,3-cd)pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	6,840	6,840	0	6,840	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	321,000	321,000	0	321,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	625	625	0	625	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,750	9,750	0	9,750	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	4,650	4,650	0	4,650	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	66	66	0	66	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Pyrene was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	273	273	0	273	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	59	59	0	59	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	34,900	34,900	0	34,900	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	572	572	0	572	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	548	548	0	548	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	44,400	44,400	0	44,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	45,600	45,600	0	45,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.059	0.059	0	0.059	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.011	0.011	0	0.011	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.0061	0.0061	0	0.0061	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-235 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.16	0.16	0	0.16	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,560	1,560	0	1,560	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	60,100	60,100	0	60,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	269	269	0	269	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	71	71	0	71	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	3,330	3,330	0	3,330	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,100	9,100	0	9,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,900	15,900	0	15,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,540	2,540	0	2,540	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	267,000	267,000	0	267,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	315	315	0	315	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	6,820	6,820	0	6,820	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	313	313	0	313	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	29	29	0	29	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	26,400	26,400	0	26,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	410	410	0	410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	437	437	0	437	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	49,200	49,200	0	49,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	38,500	38,500	0	38,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.36	0.36	0	0.36	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	48	48	0	48	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	1	1	0	100	pCi/g	--	--	0.061	0.061	0	0.061	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.58	0.58	0	0.58	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	16	16	0	16	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.11	0.11	0	0.11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.026	0.026	0	0.026	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	12	12	0	100	ug/kg	--	--	2,330	2,910	0.063	2,741	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	62,800	120,000	0.22	80,180	95% Modified-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	273	415	0.14	352	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cadmium	7440-43-9	12	12	0	100	ug/kg	--	--	50	89	0.19	78	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	6,810	9,480	0.11	8,442	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	7,870	9,790	0.061	8,993	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	13,500	17,100	0.057	16,132	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	4,040	6,170	0.13	5,472	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	283,000	332,000	0.045	314,579	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	12	1	11	8.3	ug/kg	24	29	30	30	0	30	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Molybdenum	7439-98-7	12	12	0	100	ug/kg	--	--	312	432	0.086	376	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	8,760	11,200	0.070	10,136	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Selenium	7782-49-2	12	4	8	33	ug/kg	240	290	254	262	0.014	256	95% KM (t) UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Silver	7440-22-4	12	12	0	100	ug/kg	--	--	29	43	0.13	38	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	12	12	0	100	ug/kg	--	--	28,000	33,900	0.050	32,033	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	12	12	0	100	ug/kg	--	--	375	477	0.078	442	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Uranium	7440-61-1	12	12	0	100	ug/kg	--	--	405	876	0.25	601	95% Modified-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	45,700	57,700	0.084	52,793	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	38,000	59,400	0.12	47,573	95% Modified-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	12	4	8	33	pCi/g	-4.10E-03	0.020	0.021	0.038	0.31	0.038	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cesium-137	10045-97-3	12	10	2	83	pCi/g	0.020	0.023	0.027	0.46	0.87	0.20	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	12	1	11	8.3	pCi/g	-1.60E-02	0.011	0.042	0.042	0	0.042	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	12	3	9	25	pCi/g	-1.10E-02	0.088	0.14	0.27	0.33	0.10	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	12	2	10	17	pCi/g	4.20E-05	0.060	0.061	0.092	0.29	0.092	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since the Frequency of Detects < 21% and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Plutonium-239/240	PU-239/240	12	5	7	42	pCi/g	0.0060	0.012	0.0063	0.024	0.43	0.014	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-233/234	U-233/234	12	12	0	100	pCi/g	--	--	0.11	0.19	0.19	0.18	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-235	15117-96-1	12	7	5	58	pCi/g	-2.30E-03	0.0086	0.0095	0.020	0.29	0.012	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-238	U-238	12	12	0	100	pCi/g	--	--	0.13	0.22	0.15	0.18	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	8	1	7	13	ug/kg	150	160	193	193	0	193	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	8	8	0	100	ug/kg	--	--	1,900	3,100	0.15	2,726	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Barium	7440-39-3	8	8	0	100	ug/kg	--	--	56,800	75,800	0.099	69,394	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Beryllium	7440-41-7	8	8	0	100	ug/kg	--	--	284	456	0.16	406	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cadmium	7440-43-9	8	8	0	100	ug/kg	--	--	59	95	0.16	83	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	4,450	8,660	0.22	8,069	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cobalt	7440-48-4	8	8	0	100	ug/kg	--	--	8,190	11,200	0.12	9,796	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Copper	7440-50-8	8	8	0	100	ug/kg	--	--	14,900	18,800	0.100	17,640	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Lead	7439-92-1	8	8	0	100	ug/kg	--	--	3,900	6,470	0.20	5,721	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Manganese	7439-96-5	8	8	0	100	ug/kg	--	--	250,000	365,000	0.13	325,964	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Molybdenum	7439-98-7	8	8	0	100	ug/kg	--	--	222	523	0.28	382	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Nickel	7440-02-0	8	8	0	100	ug/kg	--	--	7,290	11,100	0.15	10,444	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Selenium	7782-49-2	8	5	3	63	ug/kg	260	270	248	311	0.092	281	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Silver	7440-22-4	8	8	0	100	ug/kg	--	--	28	51	0.19	41	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	8	8	0	100	ug/kg	--	--	26,300	35,100	0.11	32,952	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	8	8	0	100	ug/kg	--	--	337	539	0.15	456	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Uranium	7440-61-1	8	8	0	100	ug/kg	--	--	407	630	0.15	530	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Vanadium	7440-62-2	8	8	0	100	ug/kg	--	--	36,200	63,700	0.17	53,139	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Zinc	7440-66-6	8	8	0	100	ug/kg	--	--	36,100	48,100	0.11	44,856	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	8	4	4	50	pCi/g	0.0013	0.0074	0.022	0.19	0.91	0.092	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	8	8	0	100	pCi/g	--	--	0.035	1.6	1.4	1.6	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	8	1	7	13	pCi/g	-6.80E-03	0.0061	0.038	0.038	0	0.038	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	8	5	3	63	pCi/g	-1.70E-02	0.040	0.078	0.61	1.0	0.28	95% KM (t) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	8	3	5	38	pCi/g	-4.20E-03	0.032	0.021	0.051	0.54	0.026	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	8	7	1	88	pCi/g	0.0042	0.0042	0.0094	0.20	1.2	0.16	95% KM (Chebyshev) UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	8	2	6	25	pCi/g	-1.50E-02	0.31	0.63	0.89	0.24	0.89	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-233/234	U-233/234	8	8	0	100	pCi/g	--	--	0.13	0.18	0.13	0.16	95% Modified-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-235	15117-96-1	8	3	5	38	pCi/g	2.70E-05	0.017	0.013	0.022	0.25	0.015	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-238	U-238	8	8	0	100	pCi/g	--	--	0.12	0.18	0.12	0.17	95% Student's-t UCL	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Anthracene	120-12-7	1	1	0	100	ug/kg	--	--	2.2	2.2	0	2.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	120	120	0	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	1	1	0	100	ug/kg	--	--	22	22	0	22	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,000	2,000	0	2,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	63,000	63,000	0	63,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	7.3	7.3	0	7.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	6.4	6.4	0	6.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	7.6	7.6	0	7.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	1	1	0	100	ug/kg	--	--	2.9	2.9	0	2.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	280	280	0	280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	87	87	0	87	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	4,700	4,700	0	4,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	12,200	12,200	0	12,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	17,100	17,100	0	17,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	18	18	0	18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	1	1	0	100	ug/kg	--	--	3.0	3.0	0	3.0	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,800	3,800	0	3,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lithium	7439-93-2	1	1	0	100	ug/kg	--	--	4,600	4,600	0	4,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	364,000	364,000	0	364,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	430	430	0	430	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,000	9,000	0	9,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	2,390	2,390	0	2,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	1	1	0	100	ug/kg	--	--	19	19	0	19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	1,800	1,800	0	1,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	49	49	0	49	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	25,400	25,400	0	25,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	590	590	0	590	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	460	460	0	460	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	60,200	60,200	0	60,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	48,100	48,100	0	48,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.41	0.41	0	0.41	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.31	0.31	0	0.31	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	1,200	1,200	0	1,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	1	1	0	100	ug/kg	--	--	21	21	0	21	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	1	1	0	100	ug/kg	--	--	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	3,100	3,100	0	3,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	57,800	57,800	0	57,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	1	1	0	100	ug/kg	--	--	50	50	0	50	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	1	1	0	100	ug/kg	--	--	48	48	0	48	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	1	1	0	100	ug/kg	--	--	47	47	0	47	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	270	270	0	270	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	110	110	0	110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,600	6,600	0	6,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	1	1	0	100	ug/kg	--	--	73	73	0	73	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,800	8,800	0	8,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,100	18,100	0	18,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	1	1	0	100	ug/kg	--	--	150	150	0	150	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	6,900	6,900	0	6,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lithium	7439-93-2	1	1	0	100	ug/kg	--	--	5,400	5,400	0	5,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	300,000	300,000	0	300,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	400	400	0	400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,400	9,400	0	9,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	1,600	1,600	0	1,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	45	45	0	45	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	27,800	27,800	0	27,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	570	570	0	570	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	430	430	0	430	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	53,600	53,600	0	53,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	50,300	50,300	0	50,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.23	0.23	0	0.23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	1.6	1.6	0	1.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Europium-152	14683-23-9	1	1	0	100	pCi/g	--	--	0.23	0.23	0	0.23	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	0.96	0.96	0	0.96	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.60	0.60	0	0.60	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.56	0.56	0	0.56	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	3	1	2	33	ug/kg	150	170	554	554	0	554	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	2,110	3,190	0.21	3,190	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	60,500	98,100	0.27	98,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	232	416	0.28	416	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	59	80	0.16	80	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	6,570	9,000	0.16	9,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3_Shallow_1	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	8,510	10,700	0.11	10,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	15,700	19,900	0.13	19,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	4,020	8,110	0.38	8,110	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	300,000	424,000	0.18	424,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	262	435	0.27	435	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	9,860	10,300	0.024	10,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Selenium	7782-49-2	3	1	2	33	ug/kg	240	290	281	281	0	281	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-3_Shallow_1	non-Rad	Silver	7440-22-4	3	3	0	100	ug/kg	--	--	36	56	0.26	56	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	3	3	0	100	ug/kg	--	--	27,000	34,100	0.13	34,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	3	3	0	100	ug/kg	--	--	378	636	0.25	636	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Uranium	7440-61-1	3	3	0	100	ug/kg	--	--	465	815	0.32	815	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	43,900	47,700	0.044	47,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	40,200	44,600	0.052	44,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	3	1	2	33	pCi/g	-7.40E-03	0.0079	0.035	0.035	0	0.035	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
100-K-3_Shallow_1	Rad	Cesium-137	10045-97-3	3	1	2	33	pCi/g	0.0039	0.013	0.23	0.23	0	0.23	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	3	1	2	33	pCi/g	-1.60E-02	-1.10E-02	0.44	0.44	0	0.44	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	3	1	2	33	pCi/g	0.0065	0.0068	0.047	0.047	0	0.047	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
100-K-3_Shallow_1	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.12	0.18	0.22	0.18	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_1	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.15	0.17	0.071	0.17	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	2,310	3,730	0.24	3,730	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	50,400	70,100	0.17	70,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	246	334	0.15	334	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Boron	7440-42-8	3	3	0	100	ug/kg	--	--	733	833	0.065	833	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	53	83	0.24	83	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	6,020	6,540	0.044	6,540	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-3_Shallow_2	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	7,450	9,100	0.11	9,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	13,800	17,400	0.12	17,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	3,350	5,460	0.26	5,460	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	258,000	301,000	0.081	301,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	334	394	0.084	394	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	8,500	9,590	0.060	9,590	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Nitrate	14797-55-8	3	2	1	67	ug/kg	4,290	4,290	6,110	6,330	0.025	6,330	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-3_Shallow_2	non-Rad	Selenium	7782-49-2	3	1	2	33	ug/kg	260	270	262	262	0	262	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-3_Shallow_2	non-Rad	Silver	7440-22-4	3	3	0	100	ug/kg	--	--	31	35	0.066	35	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	3	3	0	100	ug/kg	--	--	29,000	32,500	0.064	32,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	3	3	0	100	ug/kg	--	--	323	481	0.21	481	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Uranium	7440-61-1	3	3	0	100	ug/kg	--	--	409	522	0.12	522	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	41,900	53,700	0.13	53,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	35,900	45,000	0.12	45,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	Rad	Cesium-137	10045-97-3	3	1	2	33	pCi/g	0.015	0.027	0.077	0.077	0	0.077	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	3	1	2	33	pCi/g	0.0020	0.0038	0.054	0.054	0	0.054	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	3	1	2	33	pCi/g	-7.10E-02	0.19	0.67	0.67	0	0.67	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Strontium-90 was not processed!
100-K-3_Shallow_2	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.14	0.20	0.18	0.20	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-3_Shallow_2	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.17	0.21	0.11	0.21	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,500	2,600	0.22	2,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	50,900	69,700	0.13	69,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	50	640	0.85	640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	12,500	15,200	0.086	15,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	4	2	2	50	ug/kg	424	430	647	702	0.058	702	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	14,400	36,000	0.40	36,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	4	4	0	100	ug/kg	--	--	4,300	17,500	0.47	17,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,000	2,800	0.17	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	54,300	169,000	0.53	169,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	4	3	1	75	ug/kg	30	30	40	750	1.2	750	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,900	10,300	0.40	10,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	4	1	3	25	ug/kg	220	430	220	220	0	220	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,900	43,400	1.1	43,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	4	4	0	100	ug/kg	--	--	170	5,200	1.0	5,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-31_Shallow_Focused	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	400	400	0	400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	5	5	0	100	ug/kg	--	--	1,000	3,000	0.37	3,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-32_Shallow_Focused	non-Rad	Barium	7440-39-3	5	5	0	100	ug/kg	--	--	57,200	97,400	0.22	97,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Cadmium	7440-43-9	5	3	2	60	ug/kg	40	40	200	380	0.31	380	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	4,500	16,900	0.46	16,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	5	1	4	20	ug/kg	230	460	230	230	0	230	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	3,300	42,800	1.1	42,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	5	5	0	100	ug/kg	--	--	2,200	13,700	0.96	13,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	9	9	0	100	ug/kg	--	--	1,900	6,700	0.45	6,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Barium	7440-39-3	9	9	0	100	ug/kg	--	--	40,100	105,000	0.33	105,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	9	4	5	44	ug/kg	30	40	60	1,000	1.6	1,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	9	9	0	100	ug/kg	--	--	3,800	22,900	0.51	22,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	9	2	7	22	ug/kg	210	440	810	1,400	0.38	1,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Lead	7439-92-1	9	9	0	100	ug/kg	--	--	2,500	27,800	0.90	27,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	9	6	3	67	ug/kg	20	20	60	6,800	1.1	6,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	4	2	2	50	ug/kg	150	170	177	555	0.73	555	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,890	3,830	0.14	3,695	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	57,500	67,000	0.064	67,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	243	339	0.14	339	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	941	1,250	0.14	1,250	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	63	88	0.14	86	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,570	7,230	0.11	7,230	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,030	9,870	0.14	9,870	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,500	18,800	0.14	18,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	5,200	7,890	0.20	7,863	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	288,000	347,000	0.094	347,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	25	29	124	124	0	124	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	356	465	0.12	452	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,600	10,400	0.078	10,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nitrate	14797-55-8	4	1	3	25	ug/kg	4,250	4,380	12,100	12,100	0	12,100	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nitrate was not processed!
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Selenium	7782-49-2	4	1	3	25	ug/kg	250	290	270	270	0	270	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Silver	7440-22-4	4	3	1	75	ug/kg	28	28	27	31	0.063	31	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	27,200	35,200	0.11	35,041	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	359	622	0.24	602	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	461	570	0.10	570	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	38,300	46,800	0.10	46,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	36,300	48,700	0.14	47,734	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	160	170	173	173	0	173	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,900	3,180	0.042	3,173	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	52,400	68,100	0.12	66,671	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	284	351	0.090	351	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	795	1,080	0.13	1,080	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	60	69	0.069	69	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,980	7,070	0.070	7,002	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,950	8,470	0.033	8,470	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,200	17,600	0.066	17,479	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,680	7,020	0.18	6,796	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	292,000	330,000	0.051	327,665	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	322	366	0.055	362	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,780	9,360	0.028	9,360	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nitrate	14797-55-8	4	1	3	25	ug/kg	4,210	4,290	5,090	5,090	0	5,090	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nitrate was not processed!
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Silver	7440-22-4	4	4	0	100	ug/kg	--	--	28	31	0.056	31	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	26,300	33,300	0.097	33,130	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	388	447	0.068	439	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	453	528	0.064	527	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	45,700	48,200	0.024	48,128	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	38,300	41,500	0.037	41,087	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	290	300	417	417	0	417	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,820	3,670	0.28	3,670	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	49,900	66,900	0.13	66,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	241	330	0.16	320	95% Modified-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	787	1,860	0.43	1,760	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cadmium	7440-43-9	4	2	2	50	ug/kg	100	100	128	141	0.068	141	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	4,550	10,900	0.33	10,900	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	9,830	11,300	0.060	11,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,300	24,400	0.21	23,452	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	4	1	3	25	ug/kg	95	100	124	124	0	124	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,060	25,200	0.68	24,110	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	337,000	391,000	0.069	383,474	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	49	51	189	189	0	189	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	477	1,040	0.40	967	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,900	23,200	0.52	21,176	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	5,930	39,900	0.64	38,265	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	651	754	0.064	754	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	24,000	33,700	0.15	33,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	492	1,620	0.70	1,620	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	437	707	0.22	675	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	63,300	74,100	0.066	73,516	95% Student's-t UCL	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	48,000	58,300	0.092	58,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	9	9	0	100	ug/kg	--	--	120	7,700	2.1	7,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	9	9	0	100	ug/kg	--	--	2,500	14,800	0.86	14,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Barium	7440-39-3	9	9	0	100	ug/kg	--	--	51,300	85,500	0.14	85,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	9	9	0	100	ug/kg	--	--	210	410	0.19	410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	9	9	0	100	ug/kg	--	--	63	950	1.6	950	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Chromium	7440-47-3	9	9	0	100	ug/kg	--	--	4,100	13,900	0.41	13,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	9	9	0	100	ug/kg	--	--	6,800	12,000	0.16	12,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	9	9	0	100	ug/kg	--	--	12,400	30,500	0.27	30,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	9	9	0	100	ug/kg	--	--	500	7,700	0.92	7,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Lead	7439-92-1	9	9	0	100	ug/kg	--	--	3,500	51,100	1.4	51,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Manganese	7439-96-5	9	9	0	100	ug/kg	--	--	304,000	408,000	0.10	408,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	9	4	5	44	ug/kg	11	11	21	100	0.82	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	9	9	0	100	ug/kg	--	--	270	620	0.27	620	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nickel	7440-02-0	9	9	0	100	ug/kg	--	--	7,800	13,300	0.19	13,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	9	9	0	100	ug/kg	--	--	2,080	26,600	1.2	26,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	9	9	0	100	ug/kg	--	--	1,000	2,200	0.24	2,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Silver	7440-22-4	9	9	0	100	ug/kg	--	--	41	74	0.17	74	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	9	9	0	100	ug/kg	--	--	22,800	60,400	0.36	60,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	9	9	0	100	ug/kg	--	--	350	2,800	0.99	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Uranium	7440-61-1	9	9	0	100	ug/kg	--	--	450	810	0.18	810	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	9	9	0	100	ug/kg	--	--	38,800	89,200	0.24	89,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	9	9	0	100	ug/kg	--	--	39,200	112,000	0.35	112,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,620	1,620	0	1,620	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	53,400	53,400	0	53,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	412	412	0	412	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,150	5,150	0	5,150	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-34_Shallow	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	11,600	11,600	0	11,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,600	16,600	0	16,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,960	2,960	0	2,960	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	415,000	415,000	0	415,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	641	641	0	641	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,360	8,360	0	8,360	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	5,890	5,890	0	5,890	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	913	913	0	913	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	25,600	25,600	0	25,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	480	480	0	480	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	490	490	0	490	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	94,400	94,400	0	94,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-34_Shallow	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	56,700	56,700	0	56,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Deep_Focused	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	315	315	0	315	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	6,990	6,990	0	6,990	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	169,000	169,000	0	169,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	766	766	0	766	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	2,320	2,320	0	2,320	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	175	175	0	175	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	16,700	16,700	0	16,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	17,900	17,900	0	17,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	32,500	32,500	0	32,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	13,500	13,500	0	13,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	672,000	672,000	0	672,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	27	27	0	27	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	852	852	0	852	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	20,000	20,000	0	20,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	4,250	4,250	0	4,250	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	94	94	0	94	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	83,200	83,200	0	83,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	1,210	1,210	0	1,210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	1,190	1,190	0	1,190	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-36_Deep_Focused	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	102,000	102,000	0	102,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	81,000	81,000	0	81,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Deep_Focused	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,440	2,440	0	2,440	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	74,300	74,300	0	74,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	303	303	0	303	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,010	1,010	0	1,010	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	77	77	0	77	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	8,310	8,310	0	8,310	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,020	8,020	0	8,020	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,600	14,600	0	14,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,980	3,980	0	3,980	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	288,000	288,000	0	288,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	419	419	0	419	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,300	10,300	0	10,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	18,900	18,900	0	18,900	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	36	36	0	36	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	32,500	32,500	0	32,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	452	452	0	452	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-36_Shallow	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	461	461	0	461	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	45,500	45,500	0	45,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	42,800	42,800	0	42,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.19	0.19	0	0.19	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-36_Shallow	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.16	0.16	0	0.16	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-4_Deep	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,620	1,900	0.066	1,884	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	48,100	175,000	0.74	175,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	160	200	0.10	200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	15,400	17,700	0.058	17,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,120	3,570	0.062	3,570	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,670	8,910	0.072	8,770	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	12,800	14,000	0.042	14,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,750	4,470	0.26	4,275	95% Modified-t UCL	--
100-K-4_Deep	non-Rad	Lithium	7439-93-2	4	4	0	100	ug/kg	--	--	4,440	5,130	0.069	5,130	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	252,000	365,000	0.17	353,591	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	280	390	0.14	385	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,890	6,440	0.041	6,416	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	1,130	1,690	0.18	1,660	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	18,300	21,100	0.059	21,010	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	390	430	0.041	430	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	330	1,030	0.64	1,030	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	47,200	60,900	0.12	59,126	95% Student's-t UCL	--
100-K-4_Deep	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	33,800	37,800	0.048	37,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	-7.91E-03	-2.87E-03	0.021	0.021	0.0067	0.021	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-4_Deep	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.27	0.42	0.19	0.42	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Deep	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.41	0.74	0.30	0.69	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	260	296	320	320	0	320	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,470	3,410	0.15	3,410	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	45,400	73,500	0.19	72,700	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	110	250	0.31	250	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	15,300	16,800	0.048	16,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-4_Shallow	non-Rad	Cadmium	7440-43-9	4	1	3	25	ug/kg	87	97	120	120	0	120	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cadmium was not processed!
100-K-4_Shallow	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,370	10,200	0.28	10,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,320	8,550	0.068	8,550	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,200	15,000	0.024	15,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,820	13,900	0.54	13,325	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Lithium	7439-93-2	4	4	0	100	ug/kg	--	--	6,730	10,700	0.21	10,256	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	289,000	313,000	0.041	313,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	340	490	0.18	483	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,380	10,700	0.16	10,658	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	1,180	1,510	0.13	1,510	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	22,200	46,000	0.34	43,529	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	420	530	0.11	516	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	420	650	0.21	640	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	45,100	56,200	0.098	55,990	95% Student's-t UCL	--
100-K-4_Shallow	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	39,400	56,300	0.17	56,213	95% Student's-t UCL	--
100-K-4_Shallow	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	1.25E-04	0.015	0.037	0.12	0.73	0.12	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-4_Shallow	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.39	0.76	0.31	0.73	95% Student's-t UCL	--
100-K-4_Shallow	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.27	0.70	0.41	0.70	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-46_Deep	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	1,180	1,180	0	1,180	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Antimony was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	5,180	5,180	0	5,180	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	79,500	79,500	0	79,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	436	436	0	436	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,130	1,130	0	1,130	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	78	78	0	78	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	21,500	21,500	0	21,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	11,200	11,200	0	11,200	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	79,000	79,000	0	79,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-46_Deep	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	6,930	6,930	0	6,930	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Lithium	7439-93-2	1	1	0	100	ug/kg	--	--	7,110	7,110	0	7,110	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lithium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	416,000	416,000	0	416,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	1,770	1,770	0	1,770	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	28,300	28,300	0	28,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	4,430	4,430	0	4,430	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	102	102	0	102	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	38,000	38,000	0	38,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	9,720	9,720	0	9,720	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	583	583	0	583	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	41,400	41,400	0	41,400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	46,500	46,500	0	46,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.43	0.43	0	0.43	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Americium-241 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	7.6	7.6	0	7.6	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Carbon-14 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	6.2	6.2	0	6.2	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Plutonium-238	13981-16-3	1	1	0	100	pCi/g	--	--	0.061	0.061	0	0.061	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.33	0.33	0	0.33	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-46_Deep	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	0.99	0.99	0	0.99	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium-90 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-46_Deep	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,330	1,330	0	1,330	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	53,800	53,800	0	53,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	253	253	0	253	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	59	59	0	59	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	3,420	3,420	0	3,420	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,660	8,660	0	8,660	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,800	14,800	0	14,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,070	2,070	0	2,070	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	248,000	248,000	0	248,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	332	332	0	332	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,810	5,810	0	5,810	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Silver	7440-22-4	1	1	0	100	ug/kg	--	--	27	27	0	27	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Silver was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	23,600	23,600	0	23,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	400	400	0	400	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	389	389	0	389	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	58,700	58,700	0	58,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	39,700	39,700	0	39,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.17	0.17	0	0.17	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Americium-241 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.67	0.67	0	0.67	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cobalt-60	10198-40-0	1	1	0	100	pCi/g	--	--	0.050	0.050	0	0.050	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt-60 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Europium-152	14683-23-9	1	1	0	100	pCi/g	--	--	0.68	0.68	0	0.68	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Europium-152 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-238	13981-16-3	1	1	0	100	pCi/g	--	--	0.035	0.035	0	0.035	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.23	0.23	0	0.23	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	2.8	2.8	0	2.8	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium-90 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.11	0.11	0	0.11	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.12	0.12	0	0.12	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	12	1	11	8.3	ug/kg	1.8	8.0	7.8	7.8	0	7.8	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Acenaphthene was not processed!
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	12	3	9	25	ug/kg	1.8	8.0	12	43	0.60	16	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	12	1	11	8.3	ug/kg	1,600	1,940	1,960	1,960	0	1,960	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	12	2	10	17	ug/kg	1.2	6.7	2.1	8.1	0.83	5.2	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	12	2	10	17	ug/kg	1.2	6.7	1.2	3.1	0.63	2.4	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	12	12	0	100	ug/kg	--	--	1,140	4,100	0.38	2,752	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	51,500	82,200	0.15	70,832	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	12	7	5	58	ug/kg	0.56	0.59	2.1	169	1.2	169	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	12	7	5	58	ug/kg	0.56	8.0	1.4	107	1.3	107	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	12	9	3	75	ug/kg	0.56	0.59	0.90	181	1.5	181	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	12	6	6	50	ug/kg	0.28	8.0	1.4	68	1.1	27	95% KM (t) UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	787	1,550	0.20	1,384	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	12	12	0	100	ug/kg	--	--	5,960	10,700	0.15	9,011	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	4,400	20,900	0.48	11,916	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	12	7	5	58	ug/kg	0.56	8.0	1.4	208	1.4	208	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-50, 1607-K2_Shallow	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	4,150	9,750	0.21	8,506	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	13,400	22,400	0.18	19,182	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	12	1	11	8.3	ug/kg	0.56	8.0	30	30	0	30	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Dibenz(a,h)anthracene was not processed!
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	12	9	3	75	ug/kg	0.56	0.59	1.3	225	1.5	225	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	12	2	10	17	ug/kg	1.8	8.0	12	12	0.012	6.3	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	12	2	10	17	ug/kg	166	181	214	537	0.61	383	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	12	1	11	8.3	ug/kg	0.56	8.0	70	70	0	70	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Indeno(1,2,3-cd)pyrene was not processed!
100-K-50, 1607-K2_Shallow	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	4,260	8,980	0.25	6,809	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	292,000	496,000	0.16	402,821	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	12	11	1	92	ug/kg	4.2	4.2	5.0	225	1.5	126	95% KM (Chebyshev) UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	12	12	0	100	ug/kg	--	--	395	740	0.19	565	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	5,750	14,900	0.28	10,105	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Nitrate	14797-55-8	12	12	0	100	ug/kg	--	--	1,920	43,700	1.7	21,751	95% Chebyshev (Mean, Sd) UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	12	9	3	75	ug/kg	0.56	0.59	1.1	223	1.5	223	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	12	10	2	83	ug/kg	534	548	590	1,350	0.32	990	95% KM (t) UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	12	12	0	100	ug/kg	--	--	260	996	0.25	785	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	12	10	2	83	ug/kg	2,310	2,320	2,380	6,020	0.29	4,217	95% KM (t) UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	35,700	93,500	0.24	80,081	95% Student's-t UCL	--
100-K-50, 1607-K2_Shallow	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	38,100	71,700	0.18	53,702	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	6	6	0	100	ug/kg	--	--	2,520	9,870	0.67	9,836	95% Chebyshev (Mean, Sd) UCL	--
100-K-53_Shallow	non-Rad	Barium	7440-39-3	6	6	0	100	ug/kg	--	--	43,900	59,600	0.11	57,754	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Beryllium	7440-41-7	6	5	1	83	ug/kg	99	99	249	363	0.15	335	95% KM (t) UCL	--
100-K-53_Shallow	non-Rad	Cadmium	7440-43-9	6	3	3	50	ug/kg	96	100	118	123	0.021	121	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-53_Shallow	non-Rad	Chromium	7440-47-3	6	6	0	100	ug/kg	--	--	5,850	10,700	0.24	10,366	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Cobalt	7440-48-4	6	6	0	100	ug/kg	--	--	7,790	11,400	0.15	10,340	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Copper	7440-50-8	6	6	0	100	ug/kg	--	--	13,700	37,000	0.42	28,208	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	6	1	5	17	ug/kg	100	110	102	102	0	102	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-53_Shallow	non-Rad	Lead	7439-92-1	6	6	0	100	ug/kg	--	--	3,830	5,840	0.17	5,593	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Lithium	7439-93-2	6	6	0	100	ug/kg	--	--	5,490	8,090	0.14	7,398	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Manganese	7439-96-5	6	6	0	100	ug/kg	--	--	275,000	365,000	0.11	349,137	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	6	2	4	33	ug/kg	48	50	50	63	0.17	58	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	6	6	0	100	ug/kg	--	--	413	1,040	0.36	869	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Nickel	7440-02-0	6	6	0	100	ug/kg	--	--	7,970	11,900	0.17	11,466	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Nitrate	14797-55-8	6	4	2	67	ug/kg	4,380	4,430	4,560	10,600	0.37	8,885	95% KM (t) UCL	--
100-K-53_Shallow	non-Rad	Selenium	7782-49-2	6	6	0	100	ug/kg	--	--	357	771	0.30	749	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	6	6	0	100	ug/kg	--	--	23,200	31,200	0.098	29,344	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Tin	7440-31-5	6	6	0	100	ug/kg	--	--	393	519	0.12	509	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Uranium	7440-61-1	6	6	0	100	ug/kg	--	--	420	565	0.10	542	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-53_Shallow	non-Rad	Vanadium	7440-62-2	6	6	0	100	ug/kg	--	--	48,300	81,200	0.21	75,198	95% Student's-t UCL	--
100-K-53_Shallow	non-Rad	Zinc	7440-66-6	6	6	0	100	ug/kg	--	--	37,300	62,300	0.19	54,691	95% Student's-t UCL	--
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.22	1.3	0.88	1.2	95% Student's-t UCL	--
100-K-55:1_Deep	Rad	Cesium-137	10045-97-3	12	6	6	50	pCi/g	0.030	0.045	0.065	3.9	1.9	3.9	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-55:1_Deep	Rad	Cobalt-60	10198-40-0	12	2	10	17	pCi/g	0.029	0.051	0.065	0.74	1.2	0.59	97.5% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-55:1_Deep	Rad	Europium-152	14683-23-9	12	7	5	58	pCi/g	0.074	0.10	0.12	1.9	0.83	0.78	95% KM (t) UCL	--
100-K-55:1_Deep	Rad	Europium-154	15585-10-1	12	1	11	8.3	pCi/g	0.085	0.29	0.29	0.29	0	0.29	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-154 was not processed!
100-K-55:1_Overburden	Rad	Cesium-137	10045-97-3	48	38	10	79	pCi/g	0.032	0.053	0.031	1.8	1.3	0.34	95% KM Adjusted Gamma UCL	--
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	48	2	46	4.2	pCi/g	0.023	0.070	0.055	0.070	0.17	0.027	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	48	21	27	44	pCi/g	0.043	0.15	0.12	1.4	0.84	0.33	95% KM Adjusted Gamma UCL	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	48	2	46	4.2	pCi/g	0.078	0.23	0.18	0.33	0.40	0.099	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-55:1_Shallow	Rad	Cesium-137	10045-97-3	24	14	10	58	pCi/g	0.029	0.063	0.037	0.84	0.75	0.28	95% KM (t) UCL	--
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	24	1	23	4.2	pCi/g	0.031	0.058	0.19	0.19	0	0.19	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	24	15	9	63	pCi/g	0.066	0.14	0.081	3.9	1.4	1.0	95% Gamma Adjusted KM-UCL	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	24	2	22	8.3	pCi/g	0.095	0.19	0.25	0.52	0.50	0.23	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-55:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	3	3	0	100	ug/kg	--	--	1,533	2,313	0.20	2,313	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	3	2	1	67	pCi/g	0.042	0.042	0.13	0.61	0.91	0.61	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	3	1	2	33	pCi/g	0.052	0.060	0.11	0.11	0	0.11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	3	2	1	67	pCi/g	0.13	0.13	0.45	1.3	0.68	1.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	3	1	2	33	pCi/g	0.18	0.20	0.19	0.19	0	0.19	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	3	1	2	33	pCi/g	0.12	0.16	0.37	0.37	0	0.37	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.51	0.70	0.16	0.70	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-55:1_Shallow_Focused	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.52	0.78	0.20	0.78	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Deep	Rad	Cesium-137	10045-97-3	9	9	0	100	pCi/g	--	--	0.12	29	1.4	26	95% Adjusted Gamma UCL	--
100-K-56:1_Deep	Rad	Cobalt-60	10198-40-0	9	6	3	67	pCi/g	0.036	0.075	0.22	2.0	0.70	1.1	95% KM (t) UCL	--
100-K-56:1_Deep	Rad	Europium-152	14683-23-9	9	8	1	89	pCi/g	0.10	0.10	0.51	31	1.0	31	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-56:1_Deep	Rad	Europium-154	15585-10-1	9	6	3	67	pCi/g	0.13	0.16	0.57	4.1	0.71	2.0	95% KM (t) UCL	--
100-K-56:1_Shallow	Rad	Cesium-137	10045-97-3	20	15	5	75	pCi/g	0.028	0.040	0.073	2.4	1.4	1.0	95% KM (Chebyshev) UCL	--
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	20	2	18	10	pCi/g	0.030	0.10	0.14	0.32	0.56	0.14	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	20	8	12	40	pCi/g	0.070	0.16	0.24	10	1.6	3.3	95% Gamma Adjusted KM-UCL	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	3	2	1	67	ug/kg	222	222	243	937	0.83	937	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	3	3	0	100	ug/kg	--	--	1,197	1,444	0.10	1,444	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	3	3	0	100	pCi/g	--	--	0.061	0.31	0.63	0.31	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	3	3	0	100	pCi/g	--	--	0.056	0.15	0.44	0.15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	3	3	0	100	pCi/g	--	--	0.61	3.1	0.66	3.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	3	2	1	67	pCi/g	0.15	0.15	0.33	0.33	0.0022	0.33	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	3	3	0	100	pCi/g	--	--	0.24	0.50	0.35	0.50	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.38	0.45	0.096	0.45	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-56:1_Shallow_Focused	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.40	0.49	0.10	0.49	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	15	1	14	6.7	ug/kg	270	320	354	354	0	354	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	15	15	0	100	ug/kg	--	--	2,180	3,200	0.12	2,666	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Barium	7440-39-3	15	15	0	100	ug/kg	--	--	51,400	93,800	0.17	65,383	95% Adjusted Gamma UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Beryllium	7440-41-7	15	13	2	87	ug/kg	100	110	165	374	0.22	286	95% KM (t) UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	15	10	5	67	ug/kg	4,300	4,300	6,710	11,900	0.18	8,396	95% KM (t) UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Chromium	7440-47-3	15	15	0	100	ug/kg	--	--	3,980	9,240	0.28	7,033	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Cobalt	7440-48-4	15	15	0	100	ug/kg	--	--	6,390	10,400	0.13	9,513	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Copper	7440-50-8	15	15	0	100	ug/kg	--	--	14,200	19,300	0.069	17,449	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	15	2	13	13	ug/kg	34	110	75	139	0.42	72	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lead	7439-92-1	15	15	0	100	ug/kg	--	--	3,360	7,500	0.21	4,922	95% Adjusted Gamma UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lithium	7439-93-2	15	15	0	100	ug/kg	--	--	2,730	7,490	0.31	5,626	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Manganese	7439-96-5	15	15	0	100	ug/kg	--	--	252,000	473,000	0.16	351,498	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	15	2	13	13	ug/kg	46	55	83	128	0.30	68	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	15	15	0	100	ug/kg	--	--	207	1,100	0.53	498	95% Modified-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Nickel	7440-02-0	15	15	0	100	ug/kg	--	--	7,140	10,400	0.12	9,205	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	15	15	0	100	ug/kg	--	--	845	2,380	0.31	1,826	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	15	15	0	100	ug/kg	--	--	21,500	31,700	0.11	27,978	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	15	15	0	100	ug/kg	--	--	305	553	0.16	479	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Uranium	7440-61-1	15	15	0	100	ug/kg	--	--	334	498	0.10	448	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Vanadium	7440-62-2	15	15	0	100	ug/kg	--	--	22,100	80,600	0.38	59,056	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Zinc	7440-66-6	15	15	0	100	ug/kg	--	--	31,200	54,200	0.16	46,917	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	15	5	10	33	pCi/g	-1.68E-01	4.4	6.0	8.4	0.16	8.4	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Cesium-137	10045-97-3	15	12	3	80	pCi/g	0.0049	0.028	0.037	0.31	0.70	0.31	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Plutonium-239/240	PU-239/240	15	3	12	20	pCi/g	-3.60E-03	0.014	0.0067	0.046	0.72	0.011	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	15	1	14	6.7	pCi/g	-2.30E+00	0.53	0.97	0.97	0	0.97	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Strontium-90 was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-233/234	U-233/234	15	15	0	100	pCi/g	--	--	0.097	0.18	0.18	0.15	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-235	15117-96-1	15	9	6	60	pCi/g	0.0020	0.0088	0.0098	0.032	0.31	0.019	95% KM (t) UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-238	U-238	15	15	0	100	pCi/g	--	--	0.11	0.20	0.16	0.16	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	8	8	0	100	ug/kg	--	--	1,790	2,570	0.098	2,339	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Barium	7440-39-3	8	8	0	100	ug/kg	--	--	54,900	71,200	0.080	66,573	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Beryllium	7440-41-7	8	8	0	100	ug/kg	--	--	247	345	0.12	318	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Boron	7440-42-8	8	6	2	75	ug/kg	650	660	824	3,060	0.57	1,945	95% KM (t) UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cadmium	7440-43-9	8	8	0	100	ug/kg	--	--	70	101	0.12	88	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	4,560	7,340	0.14	6,914	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cobalt	7440-48-4	8	8	0	100	ug/kg	--	--	7,670	9,490	0.068	8,853	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Copper	7440-50-8	8	8	0	100	ug/kg	--	--	14,600	17,300	0.051	16,707	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lead	7439-92-1	8	8	0	100	ug/kg	--	--	4,030	9,140	0.33	7,036	95% Adjusted Gamma UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lithium	7439-93-2	8	8	0	100	ug/kg	--	--	4,840	7,380	0.15	6,623	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Manganese	7439-96-5	8	8	0	100	ug/kg	--	--	244,000	345,000	0.100	317,896	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	8	8	0	100	ug/kg	--	--	286	681	0.33	482	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nickel	7440-02-0	8	8	0	100	ug/kg	--	--	7,010	12,100	0.19	9,860	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nitrate	14797-55-8	8	8	0	100	ug/kg	--	--	4,690	16,300	0.48	12,545	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Selenium	7782-49-2	8	1	7	13	ug/kg	250	290	270	270	0	270	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Silver	7440-22-4	8	1	7	13	ug/kg	49	56	59	59	0	59	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Silver was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	8	8	0	100	ug/kg	--	--	23,200	31,200	0.11	29,747	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	8	8	0	100	ug/kg	--	--	375	520	0.12	450	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Uranium	7440-61-1	8	8	0	100	ug/kg	--	--	373	574	0.12	518	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Vanadium	7440-62-2	8	8	0	100	ug/kg	--	--	28,200	48,000	0.20	40,247	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Zinc	7440-66-6	8	8	0	100	ug/kg	--	--	34,300	41,500	0.062	40,250	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	8	8	0	100	pCi/g	--	--	0.028	0.32	0.94	0.23	95% Adjusted Gamma UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	8	7	1	88	pCi/g	0.45	0.45	1.1	66	1.7	66	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	8	8	0	100	pCi/g	--	--	0.31	2.6	1.0	1.7	95% Adjusted Gamma UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	8	2	6	25	pCi/g	-2.30E-02	0.036	0.065	0.31	0.92	0.31	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	8	1	7	13	pCi/g	-1.60E-02	0.025	0.16	0.16	0	0.16	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-154 was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	8	1	7	13	pCi/g	0.0020	0.021	0.030	0.030	0	0.030	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-238 was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	8	8	0	100	pCi/g	--	--	0.024	0.24	0.85	0.13	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	8	1	7	13	pCi/g	-7.50E-02	0.43	0.79	0.79	0	0.79	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Strontium-90 was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-233/234	U-233/234	8	8	0	100	pCi/g	--	--	0.11	0.16	0.12	0.15	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-235	15117-96-1	8	5	3	63	pCi/g	0.0039	0.0083	0.0057	0.021	0.43	0.015	95% KM (t) UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-238	U-238	8	8	0	100	pCi/g	--	--	0.12	0.16	0.094	0.16	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	5	5	0	100	ug/kg	--	--	1,950	3,240	0.22	2,925	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Barium	7440-39-3	5	5	0	100	ug/kg	--	--	49,600	82,000	0.22	73,256	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Beryllium	7440-41-7	5	5	0	100	ug/kg	--	--	303	475	0.20	422	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Boron	7440-42-8	5	3	2	60	ug/kg	640	660	881	896	0.0097	896	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cadmium	7440-43-9	5	3	2	60	ug/kg	58	61	73	97	0.14	92	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	5,240	9,730	0.28	8,333	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cobalt	7440-48-4	5	5	0	100	ug/kg	--	--	7,980	11,900	0.15	11,423	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Copper	7440-50-8	5	5	0	100	ug/kg	--	--	15,200	20,400	0.13	19,939	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	3,590	5,720	0.19	5,256	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lithium	7439-93-2	5	5	0	100	ug/kg	--	--	4,250	8,450	0.26	8,361	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Manganese	7439-96-5	5	5	0	100	ug/kg	--	--	269,000	410,000	0.18	376,144	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	5	5	0	100	ug/kg	--	--	213	712	0.46	595	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nickel	7440-02-0	5	5	0	100	ug/kg	--	--	7,450	12,100	0.21	10,901	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nitrate	14797-55-8	5	2	3	40	ug/kg	4,340	4,870	5,580	6,510	0.11	6,216	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Selenium	7782-49-2	5	3	2	60	ug/kg	300	300	300	332	0.051	324	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Silver	7440-22-4	5	1	4	20	ug/kg	51	61	75	75	0	75	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Silver was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	5	5	0	100	ug/kg	--	--	25,400	39,400	0.20	35,177	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	5	5	0	100	ug/kg	--	--	336	658	0.25	594	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Uranium	7440-61-1	5	5	0	100	ug/kg	--	--	416	654	0.19	591	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Vanadium	7440-62-2	5	5	0	100	ug/kg	--	--	26,800	64,300	0.30	64,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Zinc	7440-66-6	5	5	0	100	ug/kg	--	--	31,100	53,700	0.20	51,024	95% Student's-t UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	5	5	0	100	pCi/g	--	--	0.034	2.1	1.7	2.1	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	5	5	0	100	pCi/g	--	--	4.1	139	1.8	139	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	5	4	1	80	pCi/g	0.063	0.063	0.40	23	1.4	15	95% KM (t) UCL	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	5	2	3	40	pCi/g	0.010	0.015	0.055	0.23	0.87	0.23	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	5	4	1	80	pCi/g	0.012	0.012	0.045	2.2	1.6	2.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	5	4	1	80	pCi/g	0.20	0.20	0.67	11	1.5	11	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	5	1	4	20	pCi/g	-2.24E+00	0.97	5.3	5.3	0	5.3	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-233/234	U-233/234	5	5	0	100	pCi/g	--	--	0.11	0.18	0.18	0.18	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-235	15117-96-1	5	3	2	60	pCi/g	0.0020	0.015	0.011	0.022	0.33	0.022	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-238	U-238	5	5	0	100	pCi/g	--	--	0.11	0.19	0.21	0.18	95% Student's-t UCL	--
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,280	2,280	0	2,280	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	61,100	61,100	0	61,100	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	339	339	0	339	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	81	81	0	81	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	5,290	5,290	0	5,290	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-6_Shallow	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,310	8,310	0	8,310	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,700	15,700	0	15,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,070	4,070	0	4,070	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Lithium	7439-93-2	1	1	0	100	ug/kg	--	--	7,300	7,300	0	7,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lithium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	279,000	279,000	0	279,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	270	270	0	270	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	7,270	7,270	0	7,270	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	281	281	0	281	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	30,800	30,800	0	30,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	477	477	0	477	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	477	477	0	477	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	42,300	42,300	0	42,300	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	40,700	40,700	0	40,700	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.055	0.055	0	0.055	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Americium-241 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	35	35	0	35	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Carbon-14 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.51	0.51	0	0.51	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.042	0.042	0	0.042	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-6_Shallow	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.16	0.16	0	0.16	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.019	0.019	0	0.019	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-235 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-6_Shallow	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.20	0.20	0	0.20	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	944	1,290	0.17	1,290	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	41,100	50,500	0.10	50,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	177	228	0.13	228	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Cadmium	7440-43-9	3	1	2	33	ug/kg	56	57	55	55	0	55	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cadmium was not processed!
100-K-62_Shallow	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	2,430	3,950	0.24	3,950	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	7,410	8,370	0.061	8,370	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	13,700	14,900	0.043	14,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	1,550	2,330	0.21	2,330	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Lithium	7439-93-2	3	3	0	100	ug/kg	--	--	2,700	2,900	0.039	2,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	222,000	261,000	0.096	261,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	225	303	0.15	303	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	4,530	5,970	0.14	5,970	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Selenium	7782-49-2	3	1	2	33	ug/kg	280	290	312	312	0	312	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	3	3	0	100	ug/kg	--	--	20,200	22,900	0.070	22,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Tin	7440-31-5	3	3	0	100	ug/kg	--	--	313	383	0.11	383	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Uranium	7440-61-1	3	3	0	100	ug/kg	--	--	291	357	0.10	357	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	35,400	47,000	0.14	47,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	31,400	35,000	0.056	35,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Americium-241	14596-10-2	3	3	0	100	pCi/g	--	--	0.11	0.17	0.21	0.17	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	3	3	0	100	pCi/g	--	--	9.2	20	0.41	20	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Cesium-137	10045-97-3	3	3	0	100	pCi/g	--	--	0.72	0.84	0.077	0.84	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	3	2	1	67	pCi/g	0.0070	0.0070	0.033	0.036	0.061	0.036	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	3	3	0	100	pCi/g	--	--	0.13	0.20	0.23	0.20	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	3	3	0	100	pCi/g	--	--	0.48	0.76	0.23	0.76	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.070	0.12	0.26	0.12	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Uranium-235	15117-96-1	3	3	0	100	pCi/g	--	--	0.0088	0.013	0.19	0.013	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-62_Shallow	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.11	0.16	0.20	0.16	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	56	37	19	66	ug/kg	280	310	110	280	0.29	190	95% KM Approximate Gamma UCL	--
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	56	56	0	100	ug/kg	--	--	1,900	6,200	0.23	3,008	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Barium	7440-39-3	56	56	0	100	ug/kg	--	--	55,500	81,900	0.071	69,197	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Beryllium	7440-41-7	56	56	0	100	ug/kg	--	--	210	426	0.15	345	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Boron	7440-42-8	56	20	36	36	ug/kg	16,700	17,200	1,110	6,700	0.44	2,954	95% KM (BCA) UCL	--
100-K-63_Shallow_1	non-Rad	Cadmium	7440-43-9	56	56	0	100	ug/kg	--	--	102	320	0.28	189	95% Approximate Gamma UCL	--
100-K-63_Shallow_1	non-Rad	Chromium	7440-47-3	56	56	0	100	ug/kg	--	--	7,800	17,600	0.18	11,051	95% Modified-t UCL	--
100-K-63_Shallow_1	non-Rad	Cobalt	7440-48-4	56	56	0	100	ug/kg	--	--	6,120	11,000	0.13	9,147	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Copper	7440-50-8	56	56	0	100	ug/kg	--	--	13,300	23,100	0.14	19,275	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	56	7	49	13	ug/kg	91	520	185	379	0.29	152	95% KM (t) UCL	--
100-K-63_Shallow_1	non-Rad	Lead	7439-92-1	56	56	0	100	ug/kg	--	--	6,500	16,600	0.23	9,659	95% Modified-t UCL	--
100-K-63_Shallow_1	non-Rad	Manganese	7439-96-5	56	56	0	100	ug/kg	--	--	277,000	432,000	0.099	362,077	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	56	3	53	5.4	ug/kg	11	51	13	42	0.52	14	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-63_Shallow_1	non-Rad	Molybdenum	7439-98-7	56	56	0	100	ug/kg	--	--	267	1,200	0.28	450	95% Modified-t UCL	--
100-K-63_Shallow_1	non-Rad	Nickel	7440-02-0	56	56	0	100	ug/kg	--	--	10,600	16,500	0.089	13,324	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	56	56	0	100	ug/kg	--	--	600	1,630	0.18	1,290	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Silver	7440-22-4	56	37	19	66	ug/kg	93	100	35	110	0.23	55	95% KM (BCA) UCL	--
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	56	56	0	100	ug/kg	--	--	18,700	33,800	0.13	27,553	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	56	56	0	100	ug/kg	--	--	341	7,100	1.3	937	95% Modified-t UCL	--
100-K-63_Shallow_1	non-Rad	Uranium	7440-61-1	56	56	0	100	ug/kg	--	--	366	1,000	0.21	516	95% Modified-t UCL	--
100-K-63_Shallow_1	non-Rad	Vanadium	7440-62-2	56	56	0	100	ug/kg	--	--	36,300	64,100	0.12	55,351	95% Student's-t UCL	--
100-K-63_Shallow_1	non-Rad	Zinc	7440-66-6	56	56	0	100	ug/kg	--	--	47,700	73,900	0.093	58,669	95% Modified-t UCL	--
100-K-63_Shallow_1	Rad	Cesium-137	10045-97-3	56	56	0	100	pCi/g	--	--	0.062	0.81	0.58	0.31	95% Approximate Gamma UCL	--
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	56	1	55	1.8	pCi/g	-2.10E-02	0.030	0.023	0.023	0	0.023	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	56	32	24	57	pCi/g	-3.20E-02	0.17	0.081	0.67	0.57	0.19	95% KM Approximate Gamma UCL	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	56	1	55	1.8	pCi/g	-7.50E-02	0.098	0.16	0.16	0	0.16	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-154 was not processed!
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	56	4	52	7.1	pCi/g	-5.40E-02	0.54	0.070	0.20	0.49	0.20	Maximum Detect	--
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	56	9	47	16	pCi/g	-3.20E-01	0.47	0.27	2.1	0.69	2.1	Maximum Detect	--
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	20	1	19	5.0	ug/kg	270	310	316	316	0	316	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	20	20	0	100	ug/kg	--	--	2,670	4,620	0.13	3,876	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Barium	7440-39-3	20	20	0	100	ug/kg	--	--	58,500	91,800	0.13	78,317	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Beryllium	7440-41-7	20	20	0	100	ug/kg	--	--	191	428	0.17	353	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Boron	7440-42-8	20	20	0	100	ug/kg	--	--	1,080	3,510	0.33	2,021	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Cadmium	7440-43-9	20	18	2	90	ug/kg	92	100	97	248	0.27	178	95% KM (t) UCL	--
100-K-63_Shallow_2	non-Rad	Chromium	7440-47-3	20	20	0	100	ug/kg	--	--	9,660	23,800	0.23	17,235	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Cobalt	7440-48-4	20	20	0	100	ug/kg	--	--	5,950	9,060	0.11	7,831	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Copper	7440-50-8	20	20	0	100	ug/kg	--	--	12,700	20,100	0.14	16,680	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Lead	7439-92-1	20	20	0	100	ug/kg	--	--	4,900	24,400	0.54	13,047	95% Modified-t UCL	--
100-K-63_Shallow_2	non-Rad	Manganese	7439-96-5	20	20	0	100	ug/kg	--	--	266,000	396,000	0.10	328,776	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	20	20	0	100	ug/kg	--	--	336	1,380	0.52	675	95% Modified-t UCL	--
100-K-63_Shallow_2	non-Rad	Nickel	7440-02-0	20	20	0	100	ug/kg	--	--	10,100	19,200	0.18	15,105	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	20	20	0	100	ug/kg	--	--	339	1,110	0.26	874	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	20	20	0	100	ug/kg	--	--	27,700	133,000	0.56	56,140	95% Modified-t UCL	--
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	20	20	0	100	ug/kg	--	--	333	589	0.16	467	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Uranium	7440-61-1	20	20	0	100	ug/kg	--	--	429	955	0.23	690	95% Adjusted Gamma UCL	--
100-K-63_Shallow_2	non-Rad	Vanadium	7440-62-2	20	20	0	100	ug/kg	--	--	31,400	54,100	0.15	47,404	95% Student's-t UCL	--
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	20	20	0	100	ug/kg	--	--	41,100	124,000	0.33	70,136	95% Modified-t UCL	--
100-K-63_Shallow_2	Rad	Cesium-137	10045-97-3	20	13	7	65	pCi/g	-1.50E-02	0.024	0.032	1.2	1.4	0.41	95% Gamma Adjusted KM-UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	20	1	19	5.0	pCi/g	-1.30E-02	0.013	0.041	0.041	0	0.041	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	20	3	17	15	pCi/g	-4.80E-02	0.11	0.11	0.64	0.76	0.091	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	20	1	19	5.0	pCi/g	-4.70E-02	0.064	0.14	0.14	0	0.14	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-154 was not processed!
100-K-63_Shallow_2	Rad	Strontium-90	10098-97-2	20	8	12	40	pCi/g	-6.20E-01	0.32	0.41	1.1	0.31	0.16	95% KM (t) UCL	--
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	5	1	4	20	ug/kg	20	21	57	57	0	57	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Acenaphthene was not processed!
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	5	2	3	40	ug/kg	0.98	1.0	1.4	6.2	0.89	6.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	4	2	2	50	ug/kg	310	380	934	1,110	0.12	1,110	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,280	11,200	0.86	9,888	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	48,400	86,000	0.24	84,028	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	5	5	0	100	ug/kg	--	--	3.4	16	0.68	13	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	5	5	0	100	ug/kg	--	--	5.6	18	0.56	15	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	5	3	2	60	ug/kg	1.6	1.6	1.9	6.8	0.69	5.2	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
100-K-77_Shallow	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	156	410	0.35	410	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Cadmium	7440-43-9	4	2	2	50	ug/kg	100	130	184	277	0.29	277	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-77_Shallow	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	8,490	17,500	0.36	16,273	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	5	4	1	80	ug/kg	2.6	2.6	4.1	18	0.82	13	95% KM (t) UCL	--
100-K-77_Shallow	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,290	10,800	0.16	10,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,400	18,900	0.12	18,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	5	5	0	100	ug/kg	--	--	5.6	41	0.93	30	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	5	1	4	20	ug/kg	3.0	3.1	6.8	6.8	0	6.8	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Fluorene was not processed!
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	4	1	3	25	ug/kg	100	110	130	130	0	130	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	5	4	1	80	ug/kg	1.3	1.3	6.0	22	0.64	17	95% KM (t) UCL	--
100-K-77_Shallow	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,820	7,200	0.18	7,200	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Lithium	7439-93-2	4	4	0	100	ug/kg	--	--	7,590	12,800	0.28	12,203	95% Modified-t UCL	--
100-K-77_Shallow	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	247,000	440,000	0.23	440,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	362	1,480	0.61	1,389	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	9,530	13,900	0.17	13,419	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	5	4	1	80	ug/kg	2.9	2.9	7.4	42	1.0	42	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	391	927	0.33	927	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	26,700	43,100	0.24	40,917	95% Student's-t UCL	--
100-K-77_Shallow	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	621	2,160	0.48	2,160	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	452	799	0.25	771	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-77_Shallow	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	46,600	69,900	0.17	69,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	35,200	58,200	0.21	58,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
100-K-77_Shallow	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.0026	0.021	0.47	0.47	0	0.47	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
100-K-78_Shallow_Focused	non-Rad	Aluminum	7429-90-5	6	6	0	100	ug/kg	--	--	5.76E+06	1.08E+07	0.22	1.08E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	6	3	3	50	ug/kg	383	518	334	391	0.086	391	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	6	6	0	100	ug/kg	--	--	1,530	4,330	0.40	4,330	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Barium	7440-39-3	6	6	0	100	ug/kg	--	--	51,700	85,300	0.16	85,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Beryllium	7440-41-7	6	6	0	100	ug/kg	--	--	197	357	0.23	357	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Boron	7440-42-8	6	6	0	100	ug/kg	--	--	409	1,570	0.62	1,570	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Cadmium	7440-43-9	6	6	0	100	ug/kg	--	--	46	136	0.47	136	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	6	6	0	100	ug/kg	--	--	11,000	30,000	0.42	30,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Cobalt	7440-48-4	6	6	0	100	ug/kg	--	--	2,990	6,110	0.30	6,110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Copper	7440-50-8	6	6	0	100	ug/kg	--	--	11,600	19,500	0.21	19,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Iron	7439-89-6	6	6	0	100	ug/kg	--	--	1.14E+07	1.96E+07	0.21	1.96E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Lead	7439-92-1	6	6	0	100	ug/kg	--	--	2,700	6,380	0.38	6,380	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Manganese	7439-96-5	6	6	0	100	ug/kg	--	--	162,000	288,000	0.22	288,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	6	4	2	67	ug/kg	1,280	1,730	162	452	0.41	452	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Nickel	7440-02-0	6	6	0	100	ug/kg	--	--	7,770	14,800	0.28	14,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	6	6	0	100	ug/kg	--	--	1,652	2,774	0.18	2,774	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Vanadium	7440-62-2	6	6	0	100	ug/kg	--	--	23,400	42,900	0.24	42,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	non-Rad	Zinc	7440-66-6	6	6	0	100	ug/kg	--	--	29,200	47,000	0.19	47,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	6	4	2	67	pCi/g	-2.66E+00	-2.35E+00	1.3	1.7	0.095	1.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Cesium-137	10045-97-3	6	1	5	17	pCi/g	0.024	0.063	0.32	0.32	0	0.32	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	6	1	5	17	pCi/g	0.023	0.053	0.073	0.073	0	0.073	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	6	1	5	17	pCi/g	0.056	0.16	0.27	0.27	0	0.27	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	6	1	5	17	pCi/g	-8.33E-01	1.6	7.2	7.2	0	7.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Uranium-233/234	U-233/234	6	6	0	100	pCi/g	--	--	0.42	0.84	0.22	0.84	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Uranium-235	15117-96-1	6	1	5	17	pCi/g	0.030	0.24	0.048	0.048	0	0.048	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-78_Shallow_Focused	Rad	Uranium-238	U-238	6	6	0	100	pCi/g	--	--	0.56	0.93	0.18	0.93	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-84_Shallow	non-Rad	Aluminum	7429-90-5	12	12	0	100	ug/kg	--	--	4.02E+06	1.07E+07	0.30	8.24E+06	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	12	12	0	100	ug/kg	--	--	1,300	9,200	0.44	6,390	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	50,800	79,600	0.15	66,104	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	430	600	0.083	555	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Boron	7440-42-8	12	5	7	42	ug/kg	900	1,000	1,100	1,800	0.19	1,361	95% KM (t) UCL	--
100-K-84_Shallow	non-Rad	Cadmium	7440-43-9	12	5	7	42	ug/kg	38	43	52	140	0.51	66	95% KM Student's t	--
100-K-84_Shallow	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	2,300	12,500	0.49	9,253	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	7,800	10,100	0.083	9,127	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	13,400	33,700	0.23	24,206	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Iron	7439-89-6	12	12	0	100	ug/kg	--	--	2.04E+07	2.65E+07	0.082	2.49E+07	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	2,200	11,200	0.40	6,746	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	260,000	408,000	0.13	339,331	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	12	9	3	75	ug/kg	4.8	5.3	5.9	780	2.3	493	97.5% KM (Chebyshev) UCL	--
100-K-84_Shallow	non-Rad	Molybdenum	7439-98-7	12	8	4	67	ug/kg	240	260	260	450	0.22	345	95% KM (t) UCL	--
100-K-84_Shallow	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	5,400	15,300	0.29	10,755	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	47,200	64,700	0.12	58,919	95% Student's-t UCL	--
100-K-84_Shallow	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	39,800	69,500	0.18	52,211	95% Modified-t UCL	--
100-K-85_Shallow_Focused	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	7.65E+06	7.65E+06	0	7.65E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,800	2,800	0	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	56,700	56,700	0	56,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	230	230	0	230	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,100	1,100	0	1,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	62	62	0	62	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	7,800	7,800	0	7,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	8,400	8,400	0	8,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	18,100	18,100	0	18,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.27E+07	2.27E+07	0	2.27E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,800	4,800	0	4,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	327,000	327,000	0	327,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	9.9	9.9	0	9.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	360	360	0	360	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,900	9,900	0	9,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	52,800	52,800	0	52,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-85_Shallow_Focused	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	46,500	46,500	0	46,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-86_Shallow_Focused	non-Rad	Aluminum	7429-90-5	5	5	0	100	ug/kg	--	--	5.58E+06	9.78E+06	0.23	9.78E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	5	1	4	20	ug/kg	370	410	470	470	0	470	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	5	5	0	100	ug/kg	--	--	1,800	2,800	0.21	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Barium	7440-39-3	5	5	0	100	ug/kg	--	--	50,900	76,100	0.18	76,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	5	1	4	20	ug/kg	3.3	3.5	4.5	4.5	0	4.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	5	2	3	40	ug/kg	6.6	7.0	8.5	10	0.11	10	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	5	2	3	40	ug/kg	4.4	4.6	11	12	0.061	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Beryllium	7440-41-7	5	5	0	100	ug/kg	--	--	320	430	0.12	430	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Boron	7440-42-8	5	3	2	60	ug/kg	980	990	950	1,900	0.35	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Cadmium	7440-43-9	5	3	2	60	ug/kg	41	44	55	58	0.030	58	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	5,600	10,900	0.29	10,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	5	2	3	40	ug/kg	5.0	5.3	5.0	17	0.77	17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Cobalt	7440-48-4	5	5	0	100	ug/kg	--	--	8,300	9,900	0.066	9,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Copper	7440-50-8	5	5	0	100	ug/kg	--	--	15,200	18,500	0.076	18,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	5	2	3	40	ug/kg	14	14	14	30	0.51	30	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Iron	7439-89-6	5	5	0	100	ug/kg	--	--	2.02E+07	2.38E+07	0.067	2.38E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	4,600	6,000	0.11	6,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Manganese	7439-96-5	5	5	0	100	ug/kg	--	--	290,000	399,000	0.11	399,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	5	1	4	20	ug/kg	250	280	300	300	0	300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Nickel	7440-02-0	5	5	0	100	ug/kg	--	--	7,800	10,500	0.14	10,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	5	2	3	40	ug/kg	12	13	17	43	0.61	43	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	5	5	0	100	ug/kg	--	--	5,500	84,000	0.74	84,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	5	5	0	100	ug/kg	--	--	9,600	160,000	0.72	160,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Vanadium	7440-62-2	5	5	0	100	ug/kg	--	--	48,000	58,900	0.080	58,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-86_Shallow_Focused	non-Rad	Zinc	7440-66-6	5	5	0	100	ug/kg	--	--	40,100	48,800	0.078	48,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	2	2	0	100	ug/kg	--	--	2.19E+06	8.35E+06	0.83	8.35E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	2	1	1	50	ug/kg	370	370	890	890	0	890	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	1,000	9,100	1.1	9,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	42,700	103,000	0.59	103,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	2	2	0	100	ug/kg	--	--	37	210	0.99	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	2	2	0	100	ug/kg	--	--	1,600	9,500	1.0	9,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	2	2	0	100	ug/kg	--	--	3,600	15,400	0.88	15,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	2	2	0	100	ug/kg	--	--	1,700	4,400	0.63	4,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Copper	7440-50-8	2	2	0	100	ug/kg	--	--	7,700	19,000	0.60	19,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Iron	7439-89-6	2	2	0	100	ug/kg	--	--	1.24E+07	1.34E+07	0.055	1.34E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Lead	7439-92-1	2	2	0	100	ug/kg	--	--	8,100	11,100	0.22	11,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	2	2	0	100	ug/kg	--	--	59,400	258,000	0.88	258,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	2	1	1	50	ug/kg	5.2	5.2	7.2	7.2	0	7.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	2	2	0	100	ug/kg	--	--	460	980	0.51	980	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	2	2	0	100	ug/kg	--	--	2,500	11,100	0.89	11,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	2	1	1	50	ug/kg	910	910	1,200	1,200	0	1,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	2	2	0	100	ug/kg	--	--	24,100	33,600	0.23	33,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	2	2	0	100	ug/kg	--	--	14,800	52,100	0.79	52,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow	non-Rad	Aluminum	7429-90-5	13	13	0	100	ug/kg	--	--	5.35E+06	1.22E+07	0.17	1.04E+07	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	13	3	10	23	ug/kg	360	390	440	590	0.15	434	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	13	13	0	100	ug/kg	--	--	3,400	4,500	0.091	4,084	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Barium	7440-39-3	13	13	0	100	ug/kg	--	--	63,200	86,900	0.099	80,487	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	13	2	11	15	ug/kg	20	21	28	60	0.51	42	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	13	1	12	7.7	ug/kg	18	21	39	39	0	39	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Benzo(a)pyrene was not processed!
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	13	2	11	15	ug/kg	26	27	43	96	0.54	65	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Beryllium	7440-41-7	13	13	0	100	ug/kg	--	--	560	780	0.098	686	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Boron	7440-42-8	13	12	1	92	ug/kg	930	930	1,400	2,700	0.18	2,117	95% KM (t) UCL	--
100-K-89, 600-29_Shallow	non-Rad	Cadmium	7440-43-9	13	12	1	92	ug/kg	39	39	62	110	0.17	88	95% KM (t) UCL	--
100-K-89, 600-29_Shallow	non-Rad	Chromium	7440-47-3	13	13	0	100	ug/kg	--	--	4,400	13,900	0.21	12,216	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	13	3	10	23	ug/kg	27	28	46	90	0.35	47	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Cobalt	7440-48-4	13	13	0	100	ug/kg	--	--	6,800	13,200	0.20	8,924	95% Modified-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Copper	7440-50-8	13	13	0	100	ug/kg	--	--	13,200	19,200	0.12	15,869	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	13	2	11	15	ug/kg	35	38	59	130	0.53	88	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Iron	7439-89-6	13	13	0	100	ug/kg	--	--	1.92E+07	2.99E+07	0.12	2.39E+07	95% Adjusted Gamma UCL	--
100-K-89, 600-29_Shallow	non-Rad	Lead	7439-92-1	13	13	0	100	ug/kg	--	--	2,500	6,700	0.20	5,445	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Manganese	7439-96-5	13	13	0	100	ug/kg	--	--	335,000	438,000	0.084	406,274	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-89, 600-29_Shallow	non-Rad	Mercury	7439-97-6	13	1	12	7.7	ug/kg	5.2	7.2	5.7	5.7	0	5.7	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
100-K-89, 600-29_Shallow	non-Rad	Molybdenum	7439-98-7	13	1	12	7.7	ug/kg	250	270	270	270	0	270	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Molybdenum was not processed!
100-K-89, 600-29_Shallow	non-Rad	Nickel	7440-02-0	13	13	0	100	ug/kg	--	--	8,000	14,900	0.15	11,496	95% Student's-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	13	3	10	23	ug/kg	12	13	50	170	0.55	63	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	13	2	11	15	ug/kg	810	870	910	1,100	0.13	896	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	13	13	0	100	ug/kg	--	--	790	64,000	1.9	31,656	95% Chebyshev (Mean, Sd) UCL	--
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	13	13	0	100	ug/kg	--	--	1,300	130,000	2.1	59,899	95% Chebyshev (Mean, Sd) UCL	--
100-K-89, 600-29_Shallow	non-Rad	Vanadium	7440-62-2	13	13	0	100	ug/kg	--	--	44,500	89,200	0.21	60,142	95% Modified-t UCL	--
100-K-89, 600-29_Shallow	non-Rad	Zinc	7440-66-6	13	13	0	100	ug/kg	--	--	40,600	53,800	0.076	47,545	95% Student's-t UCL	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	6	6	0	100	ug/kg	--	--	8.06E+06	1.09E+07	0.10	1.09E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	6	1	5	17	ug/kg	17	18	26	26	0	26	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	6	2	4	33	ug/kg	320	370	500	4,100	1.1	4,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	6	6	0	100	ug/kg	--	--	3,400	15,400	0.79	15,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	6	6	0	100	ug/kg	--	--	60,100	84,500	0.12	84,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	6	3	3	50	ug/kg	20	21	25	190	0.94	190	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	6	3	3	50	ug/kg	20	21	20	100	0.83	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	6	3	3	50	ug/kg	26	27	48	260	0.87	260	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	6	6	0	100	ug/kg	--	--	630	710	0.046	710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	6	6	0	100	ug/kg	--	--	1,200	2,500	0.23	2,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	6	6	0	100	ug/kg	--	--	47	130	0.49	130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	6	6	0	100	ug/kg	--	--	8,300	12,200	0.15	12,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	6	3	3	50	ug/kg	26	28	34	250	0.95	250	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	6	6	0	100	ug/kg	--	--	7,600	9,600	0.095	9,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	6	6	0	100	ug/kg	--	--	14,300	29,500	0.27	29,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	6	2	4	33	ug/kg	35	37	88	530	1.0	530	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	6	1	5	17	ug/kg	21	23	42	42	0	42	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	6	6	0	100	ug/kg	--	--	2.14E+07	2.46E+07	0.050	2.46E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	6	6	0	100	ug/kg	--	--	4,500	22,900	0.82	22,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	6	6	0	100	ug/kg	--	--	343,000	410,000	0.061	410,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	6	2	4	33	ug/kg	5.1	6.4	9.8	16	0.34	16	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	6	2	4	33	ug/kg	220	250	250	440	0.39	440	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	6	6	0	100	ug/kg	--	--	9,800	12,800	0.10	12,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	6	3	3	50	ug/kg	12	13	36	440	1.2	440	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	6	3	3	50	ug/kg	760	840	840	890	0.029	890	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	6	6	0	100	ug/kg	--	--	2,500	90,000	1.2	90,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	6	6	0	100	ug/kg	--	--	6,400	140,000	1.0	140,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	6	6	0	100	ug/kg	--	--	44,700	57,600	0.093	57,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	6	6	0	100	ug/kg	--	--	42,700	124,000	0.52	124,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	1.65E+06	1.65E+06	0	1.65E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	17,000	17,000	0	17,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	58	58	0	58	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	1,400	1,400	0	1,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	1,600	1,600	0	1,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	3,600	3,600	0	3,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	4.25E+06	4.25E+06	0	4.25E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,700	2,700	0	2,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	61,700	61,700	0	61,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	17	17	0	17	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	350	350	0	350	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	1,900	1,900	0	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	11,000	11,000	0	11,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-90_Shallow_Focused	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	14,100	14,100	0	14,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	8.11E+06	8.11E+06	0	8.11E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,300	2,300	0	2,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	62,100	62,100	0	62,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	320	320	0	320	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
100-K-91_Shallow_Focused	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	2,000	2,000	0	2,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	9,800	9,800	0	9,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	6,800	6,800	0	6,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	13,500	13,500	0	13,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	1.74E+07	1.74E+07	0	1.74E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,300	4,300	0	4,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	291,000	291,000	0	291,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	2,700	2,700	0	2,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	9,600	9,600	0	9,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	36,800	36,800	0	36,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	113,000	113,000	0	113,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Aluminum	7429-90-5	2	2	0	100	ug/kg	--	--	8.42E+06	8.86E+06	0.036	8.86E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	2,400	2,900	0.13	2,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	70,900	70,900	0	70,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Beryllium	7440-41-7	2	2	0	100	ug/kg	--	--	380	390	0.018	390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	2	2	0	100	ug/kg	--	--	72	76	0.038	76	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Boron	7440-42-8	2	2	0	100	ug/kg	--	--	2,100	2,300	0.064	2,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Cadmium	7440-43-9	2	1	1	50	ug/kg	39	39	140	140	0	140	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Chromium	7440-47-3	2	2	0	100	ug/kg	--	--	9,600	9,600	0	9,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Cobalt	7440-48-4	2	2	0	100	ug/kg	--	--	8,300	8,800	0.041	8,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Copper	7440-50-8	2	2	0	100	ug/kg	--	--	14,800	19,500	0.19	19,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	2	1	1	50	ug/kg	155	155	216	216	0	216	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Iron	7439-89-6	2	2	0	100	ug/kg	--	--	1.98E+07	2.09E+07	0.038	2.09E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Lead	7439-92-1	2	2	0	100	ug/kg	--	--	5,300	8,300	0.31	8,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Manganese	7439-96-5	2	2	0	100	ug/kg	--	--	344,000	362,000	0.036	362,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	2	1	1	50	ug/kg	250	250	1,700	1,700	0	1,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Nickel	7440-02-0	2	2	0	100	ug/kg	--	--	9,300	11,200	0.13	11,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	2	2	0	100	ug/kg	--	--	7,200	14,000	0.45	14,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	2	2	0	100	ug/kg	--	--	11,000	29,000	0.64	29,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Vanadium	7440-62-2	2	2	0	100	ug/kg	--	--	44,900	46,400	0.023	46,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-92_Shallow_Focused	non-Rad	Zinc	7440-66-6	2	2	0	100	ug/kg	--	--	43,800	47,100	0.051	47,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	12	2	10	17	ug/kg	9.8	12	26	35	0.21	19	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	12	5	7	42	ug/kg	3.1	3.5	8.2	140	0.95	54	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	12	4	8	33	ug/kg	6.3	7.0	20	60	0.50	27	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	12	5	7	42	ug/kg	4.1	4.6	5.6	100	0.78	45	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	12	3	9	25	ug/kg	3.9	4.4	11	37	0.53	18	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	12	5	7	42	ug/kg	4.7	5.3	8.6	140	0.83	59	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	12	5	7	42	ug/kg	13	14	15	320	0.96	119	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	12	2	10	17	ug/kg	5.2	6.1	12	15	0.16	8.9	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	12	3	9	25	ug/kg	12	13	17	34	0.33	20	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	12	1	11	8.3	ug/kg	12	14	16	16	0	16	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Naphthalene was not processed!
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	12	5	7	42	ug/kg	12	13	16	270	0.93	104	95% KM (t) UCL	--
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	12	12	0	100	ug/kg	--	--	1,800	70,000	1.1	38,541	95% Adjusted Gamma UCL	--
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	12	12	0	100	ug/kg	--	--	2,700	96,000	1.1	39,020	95% Student's-t UCL	--
116-K-1_Deep	non-Rad	Chromium	7440-47-3	9	9	0	100	ug/kg	--	--	9,600	18,000	0.22	14,607	95% Student's-t UCL	--
116-K-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	9	1	8	11	ug/kg	200	210	560	560	0	560	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
116-K-1_Deep	Rad	Cesium-137	10045-97-3	9	8	1	89	pCi/g	0.026	0.026	0.21	15	1.1	15	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
116-K-1_Deep	Rad	Cobalt-60	10198-40-0	9	7	2	78	pCi/g	0.028	0.039	0.051	4.0	1.9	2.5	95% KM (Chebyshev) UCL	--
116-K-1_Deep	Rad	Europium-152	14683-23-9	9	8	1	89	pCi/g	0.061	0.061	0.13	13	1.3	5.5	95% KM (t) UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
116-K-1_Deep	Rad	Europium-154	15585-10-1	9	3	6	33	pCi/g	0.092	0.20	0.50	2.5	0.92	1.0	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
116-K-1_Deep	Rad	Strontium-90	10098-97-2	9	9	0	100	pCi/g	--	--	3.6	12	0.42	8.6	95% Student's-t UCL	--
116-K-1_Overburden	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	9,500	14,000	0.099	12,619	95% Student's-t UCL	--
116-K-1_Overburden	Rad	Cesium-137	10045-97-3	12	11	1	92	pCi/g	0.025	0.025	0.045	0.59	0.80	0.28	95% KM (t) UCL	--
116-K-1_Overburden	Rad	Europium-152	14683-23-9	12	8	4	67	pCi/g	0.060	0.078	0.083	0.48	0.59	0.26	95% KM (t) UCL	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	12	7	5	58	pCi/g	-4.60E-02	0.29	0.29	1.8	0.56	0.79	95% KM (t) UCL	--
116-K-1_Shallow	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	8,500	15,600	0.19	13,705	95% Student's-t UCL	--
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	8	1	7	13	ug/kg	200	210	260	260	0	260	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Hexavalent Chromium was not processed!
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	8	6	2	75	pCi/g	0.025	0.035	0.051	1.2	1.2	1.2	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	8	1	7	13	pCi/g	0.026	0.039	0.038	0.038	0	0.038	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
116-K-1_Shallow	Rad	Europium-152	14683-23-9	8	7	1	88	pCi/g	0.062	0.062	0.062	0.41	0.72	0.23	95% KM (t) UCL	--
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	8	5	3	63	pCi/g	0.19	0.28	0.90	2.7	0.43	1.7	95% KM (t) UCL	--
116-K-2_Deep_1	non-Rad	Hexavalent Chromium	18540-29-9	6	6	0	100	ug/kg	--	--	2,460	8,660	0.58	6,056	95% Modified-t UCL	--
116-K-2_Deep_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	6	6	0	100	ug/kg	--	--	1,602	2,378	0.16	2,181	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Americium-241	14596-10-2	6	6	0	100	pCi/g	--	--	0.97	7.2	0.80	4.9	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Carbon-14	14762-75-5	6	1	5	17	pCi/g	0.17	1.3	2.0	2.0	0	2.0	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
116-K-2_Deep_1	Rad	Cesium-137	10045-97-3	6	6	0	100	pCi/g	--	--	61	183	0.43	140	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Cobalt-60	10198-40-0	6	6	0	100	pCi/g	--	--	0.74	4.1	0.69	2.8	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Europium-152	14683-23-9	6	6	0	100	pCi/g	--	--	11	89	0.69	69	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Europium-154	15585-10-1	6	6	0	100	pCi/g	--	--	0.77	8.1	0.67	6.2	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Nickel-63	13981-37-8	6	6	0	100	pCi/g	--	--	227	1,450	0.77	995	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Plutonium-238	13981-16-3	6	2	4	33	pCi/g	0.17	0.30	0.44	0.82	0.43	0.72	95% KM H-UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
116-K-2_Deep_1	Rad	Plutonium-239/240	PU-239/240	6	6	0	100	pCi/g	--	--	1.6	10	0.68	7.9	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Strontium-90	10098-97-2	6	6	0	100	pCi/g	--	--	2.6	9.8	0.49	7.7	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Uranium-233/234	U-233/234	6	6	0	100	pCi/g	--	--	0.49	1.0	0.31	0.86	95% Student's-t UCL	--
116-K-2_Deep_1	Rad	Uranium-235	15117-96-1	6	3	3	50	pCi/g	0.027	0.089	0.038	0.045	0.086	0.044	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
116-K-2_Deep_1	Rad	Uranium-238	U-238	6	6	0	100	pCi/g	--	--	0.54	0.79	0.16	0.73	95% Student's-t UCL	--
116-K-2_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	18	17	1	94	ug/kg	204	204	930	4,600	0.52	2,688	95% GROS Adjusted Gamma UCL	--
116-K-2_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	18	18	0	100	ug/kg	--	--	652	2,977	0.30	2,180	95% Student's-t UCL	--
116-K-2_Deep_2	Rad	Americium-241	14596-10-2	18	14	4	78	pCi/g	-5.70E-02	0.73	0.39	7.7	0.98	3.9	95% KM Adjusted Gamma UCL	--
116-K-2_Deep_2	Rad	Carbon-14	14762-75-5	18	1	17	5.6	pCi/g	-2.19E+00	3.7	4.6	4.6	0	4.6	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
116-K-2_Deep_2	Rad	Cesium-137	10045-97-3	18	17	1	94	pCi/g	0.022	0.022	0.95	261	0.94	144	95% Gamma Adjusted KM-UCL	--
116-K-2_Deep_2	Rad	Cobalt-60	10198-40-0	18	15	3	83	pCi/g	0.036	0.077	0.044	9.6	0.80	4.4	95% KM (t) UCL	--
116-K-2_Deep_2	Rad	Europium-152	14683-23-9	18	17	1	94	pCi/g	0.060	0.060	0.92	194	1.0	82	95% KM (t) UCL	--
116-K-2_Deep_2	Rad	Europium-154	15585-10-1	18	14	4	78	pCi/g	0.073	0.14	1.3	18	0.84	12	95% GROS Adjusted Gamma UCL	--
116-K-2_Deep_2	Rad	Nickel-63	13981-37-8	18	18	0	100	pCi/g	--	--	6.9	1,570	0.93	659	95% Student's-t UCL	--
116-K-2_Deep_2	Rad	Plutonium-238	13981-16-3	18	4	14	22	pCi/g	0.048	0.23	0.28	0.81	0.41	0.24	95% KM (t) UCL	--
116-K-2_Deep_2	Rad	Plutonium-239/240	PU-239/240	18	15	3	83	pCi/g	0.088	0.17	0.46	13	0.98	6.0	95% KM Adjusted Gamma UCL	--
116-K-2_Deep_2	Rad	Strontium-90	10098-97-2	18	18	0	100	pCi/g	--	--	0.82	20	0.94	6.7	95% Adjusted Gamma UCL	--
116-K-2_Deep_2	Rad	Uranium-233/234	U-233/234	18	18	0	100	pCi/g	--	--	0.30	1.1	0.32	0.75	95% Student's-t UCL	--
116-K-2_Deep_2	Rad	Uranium-238	U-238	18	18	0	100	pCi/g	--	--	0.22	1.0	0.30	0.73	95% Student's-t UCL	--
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	8	5	3	63	ug/kg	210	220	260	340	0.11	292	95% KM (t) UCL	--
116-K-2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	8	8	0	100	ug/kg	--	--	1,152	2,283	0.23	2,027	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
116-K-2_Overburden	Rad	Cesium-137	10045-97-3	8	3	5	38	pCi/g	0.026	0.044	0.10	0.13	0.13	0.094	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
116-K-2_Overburden	Rad	Europium-152	14683-23-9	8	3	5	38	pCi/g	0.081	0.13	0.16	0.26	0.22	0.19	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
116-K-2_Overburden	Rad	Uranium-233/234	U-233/234	8	8	0	100	pCi/g	--	--	0.41	0.78	0.23	0.66	95% Student's-t UCL	--
116-K-2_Overburden	Rad	Uranium-238	U-238	8	8	0	100	pCi/g	--	--	0.39	0.77	0.23	0.68	95% Student's-t UCL	--
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	8	4	4	50	ug/kg	201	203	216	852	0.81	670	95% KM (Chebyshev) UCL	--
116-K-2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	8	8	0	100	ug/kg	--	--	1,143	2,310	0.25	1,823	95% Student's-t UCL	--
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	8	1	7	13	pCi/g	-2.87E+00	0.51	3.0	3.0	0	3.0	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
116-K-2_Shallow_1	Rad	Cesium-137	10045-97-3	8	4	4	50	pCi/g	0.032	0.051	0.15	1.5	1.2	0.63	95% KM (t) UCL	--
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	8	1	7	13	pCi/g	0.075	0.17	0.35	0.35	0	0.35	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	8	1	7	13	pCi/g	-1.25E+01	2.2	7.8	7.8	0	7.8	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nickel-63 was not processed!
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	8	2	6	25	pCi/g	-6.30E-02	0.21	0.18	0.19	0.053	0.19	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
116-K-2_Shallow_1	Rad	Uranium-233/234	U-233/234	8	8	0	100	pCi/g	--	--	0.36	0.78	0.23	0.67	95% Student's-t UCL	--
116-K-2_Shallow_1	Rad	Uranium-238	U-238	8	8	0	100	pCi/g	--	--	0.38	0.78	0.25	0.61	95% Student's-t UCL	--
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	16	9	7	56	ug/kg	204	214	216	309	0.13	250	95% KM (t) UCL	--
116-K-2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	16	16	0	100	ug/kg	--	--	985	2,843	0.26	1,988	95% Student's-t UCL	--
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	16	9	7	56	pCi/g	0.032	0.044	0.044	4.7	1.5	2.0	95% Gamma Adjusted KM-UCL	--
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	16	5	11	31	pCi/g	0.089	0.15	0.24	2.6	0.96	0.68	95% KM (t) UCL	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	16	2	14	13	pCi/g	0.11	0.17	0.30	0.30	0.0095	0.17	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	16	2	14	13	pCi/g	-1.83E+00	2.1	4.2	5.0	0.12	5.0	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since the Frequency of Detects < 21% and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
116-K-2_Shallow_2	Rad	Strontium-90	10098-97-2	16	5	11	31	pCi/g	-3.50E-02	0.16	0.24	0.37	0.17	0.15	95% KM (t) UCL	--
116-K-2_Shallow_2	Rad	Uranium-233/234	U-233/234	16	16	0	100	pCi/g	--	--	0.49	0.97	0.21	0.73	95% Student's-t UCL	--
116-K-2_Shallow_2	Rad	Uranium-238	U-238	16	16	0	100	pCi/g	--	--	0.33	0.96	0.26	0.67	95% Student's-t UCL	--
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	16	11	5	69	ug/kg	210	220	260	1,300	0.61	1,211	95% GROS Adjusted Gamma UCL	--
116-KE-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	16	16	0	100	ug/kg	--	--	947	2,048	0.20	1,660	95% Student's-t UCL	--
116-KE-4_Shallow	Rad	Cesium-137	10045-97-3	16	14	2	88	pCi/g	0.032	0.056	0.042	0.87	1.3	0.22	95% KM H-UCL	--
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	16	1	15	6.3	pCi/g	0.030	0.11	0.086	0.086	0	0.086	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	16	12	4	75	pCi/g	0.080	0.16	0.10	2.1	0.93	0.69	95% KM (t) UCL	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	16	2	14	13	pCi/g	0.096	0.33	0.14	0.28	0.50	0.19	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	16	7	9	44	pCi/g	-8.71E-01	2.5	4.9	12	0.32	5.0	95% KM (t) UCL	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	16	5	11	31	pCi/g	0.022	0.33	0.26	0.55	0.35	0.21	95% KM (t) UCL	--
116-KE-4_Shallow	Rad	Uranium-233/234	U-233/234	16	16	0	100	pCi/g	--	--	0.39	0.84	0.22	0.61	95% Student's-t UCL	--
116-KE-4_Shallow	Rad	Uranium-235	15117-96-1	16	3	13	19	pCi/g	0.017	0.072	0.032	0.041	0.15	0.020	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
116-KE-4_Shallow	Rad	Uranium-238	U-238	16	16	0	100	pCi/g	--	--	0.32	0.69	0.20	0.56	95% Student's-t UCL	--
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	3,700	3,700	0	3,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	100,000	100,000	0	100,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	195	195	0	195	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	30,000	30,000	0	30,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	1	1	0	100	ug/kg	--	--	59,038	59,038	0	59,038	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	330	330	0	330	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	11,300	11,300	0	11,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	102	102	0	102	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	20	5	15	25	ug/kg	400	416	549	850	0.18	543	95% KM (t) UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
116-KW-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	20	20	0	100	ug/kg	--	--	1,000	4,257	0.46	1,924	95% Modified-t UCL	--
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	20	1	19	5.0	pCi/g	-6.00E-02	0.086	0.53	0.53	0	0.53	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
116-KW-3_Shallow	Rad	Cesium-137	10045-97-3	20	18	2	90	pCi/g	0.031	0.038	0.022	0.45	0.89	0.18	95% KM Adjusted Gamma UCL	--
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	20	11	9	55	pCi/g	0.026	0.092	0.038	0.25	0.68	0.10	95% KM (t) UCL	--
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	20	20	0	100	pCi/g	--	--	0.11	3.8	0.90	1.5	95% Adjusted Gamma UCL	--
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	20	8	12	40	pCi/g	0.089	0.24	0.11	0.79	0.69	0.26	95% KM (t) UCL	--
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	20	1	19	5.0	pCi/g	-5.30E-02	0.14	0.92	0.92	0	0.92	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
116-KW-3_Shallow	Rad	Uranium-233/234	U-233/234	20	20	0	100	pCi/g	--	--	0.26	1.6	0.55	0.66	95% Modified-t UCL	--
116-KW-3_Shallow	Rad	Uranium-235	15117-96-1	20	2	18	10	pCi/g	0.0090	0.076	0.037	0.039	0.037	0.039	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since the Frequency of Detects < 21% and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
116-KW-3_Shallow	Rad	Uranium-238	U-238	20	20	0	100	pCi/g	--	--	0.34	1.4	0.46	0.65	95% Modified-t UCL	--
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,600	2,600	0	2,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	59,300	59,300	0	59,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	12,100	12,100	0	12,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	1	1	0	100	ug/kg	--	--	240	240	0	240	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
116-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,500	4,500	0	4,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_Overburden_12	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	7.29E+06	9.09E+06	0.11	9.09E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,110	3,100	0.16	3,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	65,000	72,500	0.050	71,962	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	303	353	0.066	353	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,120	1,740	0.22	1,688	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	92	114	0.11	112	95% Modified-t UCL	--
118-K-1_Overburden_12	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	7,080	10,600	0.17	10,588	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,730	8,820	0.057	8,715	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,600	17,900	0.061	17,707	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.57E+07	2.78E+07	0.035	2.78E+07	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,730	4,500	0.078	4,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	345,000	392,000	0.054	392,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	411	474	0.066	466	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,040	9,880	0.091	9,880	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	67,100	75,000	0.052	74,257	95% Student's-t UCL	--
118-K-1_Overburden_12	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	48,000	51,000	0.026	51,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_Overburden_12	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.035	0.12	0.63	0.11	95% Student's-t UCL	--
118-K-1_Overburden_13	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	9.44E+06	9.44E+06	0	9.44E+06	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aluminum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,760	2,760	0	2,760	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	70,500	70,500	0	70,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	343	343	0	343	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_Overburden_13	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,680	1,680	0	1,680	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	112	112	0	112	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	10,600	10,600	0	10,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,380	7,380	0	7,380	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	15,100	15,100	0	15,100	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.48E+07	2.48E+07	0	2.48E+07	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Iron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	4,980	4,980	0	4,980	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	373,000	373,000	0	373,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	424	424	0	424	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	10,500	10,500	0	10,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	64,600	64,600	0	64,600	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	49,500	49,500	0	49,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_Overburden_13	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.084	0.084	0	0.084	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
118-K-1_P1_Shallow_1	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.88E+06	8.11E+06	0.071	8.11E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,500	2,800	0.052	2,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	52,300	61,500	0.074	61,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	600	600	0	600	Maximum Detect	Warning: There is only one distinct observation value in this data set - resulting in '0' variance! ProUCL (or any other software) should not be used on such a data set! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations using these statistical methods!
118-K-1_P1_Shallow_1	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	800	1,300	0.21	1,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Warning: There is only one distinct observation value in this data set - resulting in '0' variance! ProUCL (or any other software) should not be used on such a data set! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P1_Shallow_1	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	9,000	11,000	0.095	11,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,900	8,300	0.021	8,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,200	18,000	0.069	17,875	95% Student's-t UCL	--
118-K-1_P1_Shallow_1	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.66E+07	2.87E+07	0.032	2.86E+07	95% Student's-t UCL	--
118-K-1_P1_Shallow_1	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,700	4,700	0.097	4,680	95% Student's-t UCL	--
118-K-1_P1_Shallow_1	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	347,000	366,000	0.023	366,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	500	600	0.095	588	95% Modified-t UCL	--
118-K-1_P1_Shallow_1	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	9,500	11,600	0.093	11,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_1	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	68,600	73,700	0.030	73,527	95% Student's-t UCL	--
118-K-1_P1_Shallow_1	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	50,700	56,000	0.045	56,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_2	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.79E+06	8.79E+06	0.13	8.68E+06	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,600	4,300	0.25	4,288	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	55,800	74,500	0.13	74,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_2	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	300	400	0.15	388	95% Modified-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,200	2,600	0.30	2,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_2	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	200	300	0.22	288	95% Modified-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	8,700	12,800	0.17	12,792	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	8,100	10,100	0.11	9,972	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	19,200	22,400	0.075	22,271	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.39E+07	2.86E+07	0.091	2.81E+07	95% Modified-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,200	7,000	0.23	6,680	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	339,000	389,000	0.069	389,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	600	800	0.15	776	95% Modified-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	10,500	13,200	0.094	13,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_2	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	62,900	72,000	0.056	71,916	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	51,600	79,000	0.20	75,395	95% Student's-t UCL	--
118-K-1_P1_Shallow_2	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.024	0.089	0.18	0.18	0	0.18	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	4	2	2	50	pCi/g	0.19	0.30	0.096	0.33	0.77	0.33	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P1_Shallow_3	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.16E+06	8.43E+06	0.14	8.17E+06	95% Student's-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,100	2,900	0.15	2,819	95% Student's-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	54,700	67,500	0.094	66,135	95% Student's-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	600	700	0.089	700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	700	1,500	0.33	1,425	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P1_Shallow_3	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Warning: There is only one distinct observation value in this data set - resulting in '0' variance! ProUCL (or any other software) should not be used on such a data set! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations using these statistical methods!
118-K-1_P1_Shallow_3	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,200	11,700	0.34	11,165	95% Student's-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,900	9,800	0.097	9,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,200	16,900	0.050	16,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.57E+07	3.36E+07	0.13	3.36E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,000	4,300	0.16	4,143	95% Student's-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	334,000	391,000	0.072	391,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	500	600	0.095	588	95% Modified-t UCL	--
118-K-1_P1_Shallow_3	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,600	11,000	0.15	11,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	60,600	90,500	0.18	90,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_3	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	47,300	60,700	0.12	60,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_4	non-Rad	Aluminum	7429-90-5	16	16	0	100	ug/kg	--	--	6.75E+06	1.12E+07	0.12	1.03E+07	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	16	2	14	13	ug/kg	700	1,500	400	400	0	400	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	16	16	0	100	ug/kg	--	--	2,500	15,200	0.79	5,303	95% Modified-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Barium	7440-39-3	16	16	0	100	ug/kg	--	--	69,800	105,000	0.096	88,103	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Beryllium	7440-41-7	16	16	0	100	ug/kg	--	--	300	900	0.31	725	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Boron	7440-42-8	16	16	0	100	ug/kg	--	--	1,100	2,700	0.21	2,411	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Cadmium	7440-43-9	16	16	0	100	ug/kg	--	--	200	600	0.32	337	95% Modified-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Chromium	7440-47-3	16	16	0	100	ug/kg	--	--	8,500	16,000	0.15	14,500	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Cobalt	7440-48-4	16	16	0	100	ug/kg	--	--	6,300	9,200	0.099	7,924	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Copper	7440-50-8	16	16	0	100	ug/kg	--	--	14,700	31,400	0.27	19,645	95% Modified-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Iron	7439-89-6	16	16	0	100	ug/kg	--	--	2.18E+07	2.80E+07	0.074	2.57E+07	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Lead	7439-92-1	16	16	0	100	ug/kg	--	--	3,700	8,100	0.19	6,506	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Manganese	7439-96-5	16	16	0	100	ug/kg	--	--	341,000	440,000	0.058	400,414	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Mercury	7439-97-6	16	6	10	38	ug/kg	30	30	10	10	0	10	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	16	16	0	100	ug/kg	--	--	400	1,100	0.21	746	95% Modified-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Nickel	7440-02-0	16	16	0	100	ug/kg	--	--	9,600	15,500	0.14	13,367	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Vanadium	7440-62-2	16	16	0	100	ug/kg	--	--	52,900	78,700	0.12	65,733	95% Modified-t UCL	--
118-K-1_P1_Shallow_4	non-Rad	Zinc	7440-66-6	16	16	0	100	ug/kg	--	--	50,100	64,800	0.068	56,062	95% Student's-t UCL	--
118-K-1_P1_Shallow_4	Rad	Cesium-137	10045-97-3	16	14	2	88	pCi/g	0.040	0.091	0.069	0.91	0.85	0.32	95% KM H-UCL	--
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	16	3	13	19	pCi/g	0.087	0.28	0.071	0.34	0.72	0.13	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	16	2	14	13	pCi/g	-5.50E-02	0.17	0.39	6.1	1.2	5.6	99% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
118-K-1_P1_Shallow_5	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	7.90E+06	9.57E+06	0.090	9.57E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	3,000	3,800	0.10	3,708	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	60,400	72,800	0.080	72,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	600	700	0.074	700	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,500	1,900	0.099	1,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Warning: There is only one distinct observation value in this data set - resulting in '0' variance! ProUCL (or any other software) should not be used on such a data set! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations using these statistical methods!
118-K-1_P1_Shallow_5	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	9,700	12,800	0.12	12,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	8,200	10,500	0.12	10,275	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	17,600	19,400	0.044	19,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.60E+07	2.87E+07	0.046	2.87E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,400	5,700	0.11	5,650	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	376,000	416,000	0.043	416,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	4	4	0	100	ug/kg	--	--	5.0	6.0	0.10	6.0	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	600	600	0	600	Maximum Detect	Warning: There is only one distinct observation value in this data set - resulting in '0' variance! ProUCL (or any other software) should not be used on such a data set! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations using these statistical methods!
118-K-1_P1_Shallow_5	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	11,800	13,600	0.065	13,483	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	33,800	79,800	0.35	77,441	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,596	2,456	0.21	2,355	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	61,200	74,400	0.084	74,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P1_Shallow_5	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	49,300	58,200	0.068	58,098	95% Student's-t UCL	--
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.099	2.5	0.67	2.5	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	4	2	2	50	pCi/g	0.014	0.036	0.032	0.082	0.62	0.082	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	4	1	3	25	pCi/g	0.081	0.081	0.073	0.073	0	0.073	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	4	3	1	75	pCi/g	-6.30E-02	-6.30E-02	0.59	0.86	0.19	0.86	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P1_Shallow_5	Rad	Uranium-233/234	U-233/234	4	3	1	75	pCi/g	0.26	0.26	0.43	1.1	0.48	1.0	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P1_Shallow_5	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.54	0.83	0.21	0.79	95% Student's-t UCL	--
118-K-1_P1_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	8.76E+06	8.76E+06	0	8.76E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	4,800	4,800	0	4,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	68,600	68,600	0	68,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	400	400	0	400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,300	1,300	0	1,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	200	200	0	200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	10,500	10,500	0	10,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,800	9,800	0	9,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	21,200	21,200	0	21,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.82E+07	2.82E+07	0	2.82E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	6,600	6,600	0	6,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	408,000	408,000	0	408,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	1	1	0	100	ug/kg	--	--	9.0	9.0	0	9.0	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	600	600	0	600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	11,400	11,400	0	11,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	1	1	0	100	ug/kg	--	--	18,100	18,100	0	18,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	1	1	0	100	ug/kg	--	--	1,724	1,724	0	1,724	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	69,700	69,700	0	69,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	57,500	57,500	0	57,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.093	0.093	0	0.093	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	3.7	3.7	0	3.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.087	0.087	0	0.087	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	2.0	2.0	0	2.0	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.62	0.62	0	0.62	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.046	0.046	0	0.046	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.57	0.57	0	0.57	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_2	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	3.59E+06	5.06E+06	0.15	4.93E+06	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,390	2,380	0.24	2,380	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	31,800	52,600	0.22	50,741	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	168	236	0.15	235	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	347	686	0.34	648	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	38	130	0.60	119	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	2,560	5,720	0.40	5,327	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	4,840	7,270	0.17	7,270	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	9,700	14,500	0.17	14,311	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.62E+07	1.99E+07	0.092	1.99E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	1,640	3,060	0.28	3,034	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	198,000	289,000	0.17	289,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	235	307	0.12	307	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	4,050	8,510	0.34	8,045	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,247	1,947	0.19	1,901	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	46,500	57,800	0.091	57,754	95% Student's-t UCL	--
118-K-1_P2_Deep_2	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	32,300	63,200	0.31	59,990	95% Student's-t UCL	--
118-K-1_P2_Deep_2	Rad	Americium-241	14596-10-2	4	1	3	25	pCi/g	-3.40E-02	0.14	0.30	0.30	0	0.30	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
118-K-1_P2_Deep_2	Rad	Carbon-14	14762-75-5	4	4	0	100	pCi/g	--	--	0.89	1.5	0.27	1.5	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_2	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.057	0.071	0.093	0.093	0	0.093	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Deep_2	Rad	Cobalt-60	10198-40-0	4	1	3	25	pCi/g	0.051	0.072	0.23	0.23	0	0.23	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
118-K-1_P2_Deep_2	Rad	Europium-152	14683-23-9	4	1	3	25	pCi/g	0.14	0.19	0.46	0.46	0	0.46	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_2	Rad	Nickel-63	13981-37-8	4	1	3	25	pCi/g	0.43	2.6	11	11	0	11	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nickel-63 was not processed!
118-K-1_P2_Deep_2	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.59	0.81	0.13	0.80	95% Student's-t UCL	--
118-K-1_P2_Deep_2	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.42	0.65	0.19	0.64	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	3.38E+06	4.75E+06	0.14	4.75E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	876	1,740	0.29	1,740	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	34,900	47,500	0.15	47,321	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	163	217	0.12	217	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Boron	7440-42-8	4	3	1	75	ug/kg	1,920	1,920	433	616	0.19	616	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_3	non-Rad	Cadmium	7440-43-9	4	3	1	75	ug/kg	193	193	40	62	0.23	62	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_3	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	2,770	4,160	0.18	4,002	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,110	7,280	0.15	7,197	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	10,100	13,000	0.11	13,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.75E+07	2.22E+07	0.13	2.22E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	1,550	2,370	0.18	2,370	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	192,000	276,000	0.15	276,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	24	25	9.2	9.2	0	9.2	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Deep_3	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	255	338	0.13	338	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	4,770	7,320	0.21	7,219	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,563	2,158	0.15	2,075	95% Student's-t UCL	--
118-K-1_P2_Deep_3	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	46,300	67,900	0.18	67,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_3	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	31,800	41,900	0.14	41,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_3	Rad	Americium-241	14596-10-2	4	1	3	25	pCi/g	-2.90E-02	0.058	0.24	0.24	0	0.24	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
118-K-1_P2_Deep_3	Rad	Carbon-14	14762-75-5	4	4	0	100	pCi/g	--	--	1.0	2.3	0.32	2.3	95% Student's-t UCL	--
118-K-1_P2_Deep_3	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.056	0.062	0.28	0.77	0.66	0.77	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_3	Rad	Cobalt-60	10198-40-0	4	1	3	25	pCi/g	0.054	0.099	0.69	0.69	0	0.69	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
118-K-1_P2_Deep_3	Rad	Europium-152	14683-23-9	4	1	3	25	pCi/g	0.14	0.19	1.1	1.1	0	1.1	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
118-K-1_P2_Deep_3	Rad	Europium-154	15585-10-1	4	1	3	25	pCi/g	0.18	0.22	0.43	0.43	0	0.43	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-154 was not processed!
118-K-1_P2_Deep_3	Rad	Nickel-63	13981-37-8	4	3	1	75	pCi/g	2.7	2.7	5.3	43	1.2	38	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Deep_3	Rad	Plutonium-239/240	PU-239/240	4	2	2	50	pCi/g	-8.00E-03	0.017	0.035	0.12	0.76	0.12	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_3	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.56	0.84	0.17	0.82	95% Student's-t UCL	--
118-K-1_P2_Deep_3	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.53	0.73	0.15	0.70	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	4.28E+06	6.36E+06	0.18	6.12E+06	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,180	2,110	0.24	2,110	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	43,400	50,500	0.069	49,958	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	173	247	0.17	246	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Boron	7440-42-8	4	3	1	75	ug/kg	1,860	1,860	470	1,010	0.43	1,010	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_4	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	45	58	0.11	58	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,640	6,990	0.33	6,990	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	4,860	7,410	0.17	7,410	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	11,200	13,100	0.073	13,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_4	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.58E+07	2.16E+07	0.13	2.16E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	1,990	3,410	0.24	3,380	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	221,000	285,000	0.11	285,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	222	1,100	0.92	1,100	Maximum Detect	Warning: One or more Recommended UCL(s) not available! When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
118-K-1_P2_Deep_4	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,660	8,510	0.18	8,510	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,424	2,122	0.17	2,122	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	47,500	64,400	0.15	62,899	95% Student's-t UCL	--
118-K-1_P2_Deep_4	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	34,200	40,700	0.073	40,545	95% Student's-t UCL	--
118-K-1_P2_Deep_4	Rad	Cesium-137	10045-97-3	4	3	1	75	pCi/g	0.048	0.048	0.079	0.55	0.92	0.50	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Deep_4	Rad	Cobalt-60	10198-40-0	4	1	3	25	pCi/g	0.018	0.022	0.17	0.17	0	0.17	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
118-K-1_P2_Deep_4	Rad	Europium-152	14683-23-9	4	3	1	75	pCi/g	0.049	0.049	0.15	1.4	0.80	1.3	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Deep_4	Rad	Nickel-63	13981-37-8	4	1	3	25	pCi/g	-3.14E-01	0.55	3.4	3.4	0	3.4	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nickel-63 was not processed!
118-K-1_P2_Deep_4	Rad	Plutonium-239/240	PU-239/240	4	3	1	75	pCi/g	0.010	0.010	0.067	0.21	0.55	0.21	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Deep_4	Rad	Strontium-90	10098-97-2	4	2	2	50	pCi/g	-7.00E-03	0.17	0.35	0.68	0.45	0.68	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_4	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-5.00E-02	1.7	5.2	5.2	0	5.2	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_4	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.45	0.67	0.16	0.67	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_4	Rad	Uranium-235	15117-96-1	4	2	2	50	pCi/g	0.011	0.031	0.027	0.041	0.29	0.041	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_4	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.47	0.71	0.17	0.71	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.91E+06	7.08E+06	0.076	7.08E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	726	859	237	237	0	237	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
118-K-1_P2_Deep_5	non-Rad	Aroclor-1254	11097-69-1	4	1	3	25	ug/kg	13	14	4.4	4.4	0	4.4	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aroclor-1254 was not processed!
118-K-1_P2_Deep_5	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,610	1,850	0.062	1,850	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	59,100	73,300	0.093	72,194	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	289	333	0.069	327	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	586	794	0.15	794	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	67	108	0.21	106	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,220	4,480	0.15	4,480	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,440	7,990	0.037	7,990	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,100	17,100	0.025	17,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	3.06E+07	3.42E+07	0.047	3.40E+07	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,050	2,370	0.059	2,370	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	362,000	413,000	0.056	413,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_5	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	412	565	0.13	553	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,900	7,170	0.081	7,096	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	4	2	2	50	ug/kg	3,350	3,370	1,210	2,110	0.38	2,110	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	4	1	3	25	ug/kg	10,100	10,400	53,100	53,100	0	53,100	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Total petroleum hydrocarbons - motor oil (high boiling) was not processed!
118-K-1_P2_Deep_5	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	80,500	90,100	0.051	88,842	95% Student's-t UCL	--
118-K-1_P2_Deep_5	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	47,900	55,900	0.066	55,271	95% Student's-t UCL	--
118-K-1_P2_Deep_5	Rad	Carbon-14	14762-75-5	4	4	0	100	pCi/g	--	--	0.97	2.8	0.43	2.7	95% Student's-t UCL	--
118-K-1_P2_Deep_5	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.020	0.020	0.092	0.092	0	0.092	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Deep_5	Rad	Nickel-63	13981-37-8	4	2	2	50	pCi/g	-3.24E-01	0.49	3.1	12	0.83	12	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_6	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.71E+06	6.25E+06	0.042	6.25E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,380	2,120	0.18	2,120	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	58,900	67,400	0.058	67,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	237	311	0.11	311	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Boron	7440-42-8	4	2	2	50	ug/kg	1,770	2,030	625	667	0.046	667	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_6	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	66	124	0.29	118	95% Student's-t UCL	--
118-K-1_P2_Deep_6	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	2,470	5,380	0.30	5,380	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,540	8,200	0.094	8,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,800	17,900	0.056	17,780	95% Student's-t UCL	--
118-K-1_P2_Deep_6	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.23E+07	3.04E+07	0.13	3.04E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,410	3,300	0.14	3,266	95% Student's-t UCL	--
118-K-1_P2_Deep_6	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	244,000	391,000	0.19	391,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	274	327	0.075	327	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,630	7,810	0.14	7,810	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_6	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	58,300	82,600	0.15	82,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	38,700	48,600	0.10	48,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_6	Rad	Carbon-14	14762-75-5	4	3	1	75	pCi/g	0.28	0.28	0.76	1.7	0.46	1.7	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Deep_6	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.028	0.067	0.084	0.084	0	0.084	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Deep_7	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.03E+06	6.38E+06	0.11	6.24E+06	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,230	1,820	0.18	1,820	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_7	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	48,200	54,000	0.047	53,701	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	220	251	0.063	248	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,800	8,660	0.37	8,465	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	8,210	10,600	0.11	10,401	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,800	17,600	0.075	17,328	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.53E+07	3.15E+07	0.093	3.15E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_7	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,200	3,270	0.16	3,270	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_7	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	296,000	360,000	0.087	360,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_7	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	25	30	18	18	0	18	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Deep_7	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,580	8,420	0.12	8,156	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	744	2,301	0.44	2,216	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	67,500	92,700	0.13	91,461	95% Student's-t UCL	--
118-K-1_P2_Deep_7	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	47,100	56,700	0.089	55,780	95% Student's-t UCL	--
118-K-1_P2_Deep_7	Rad	Americium-241	14596-10-2	4	1	3	25	pCi/g	-6.40E-02	0.13	1.8	1.8	0	1.8	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
118-K-1_P2_Deep_7	Rad	Carbon-14	14762-75-5	4	3	1	75	pCi/g	0.46	0.46	0.88	1.2	0.16	1.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_7	Rad	Cesium-137	10045-97-3	4	3	1	75	pCi/g	0.022	0.022	0.043	12	1.7	10	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_7	Rad	Nickel-63	13981-37-8	4	1	3	25	pCi/g	-2.49E-01	2.6	3.4	3.4	0	3.4	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nickel-63 was not processed!
118-K-1_P2_Deep_7	Rad	Plutonium-239/240	PU-239/240	4	1	3	25	pCi/g	0.031	0.068	1.6	1.6	0	1.6	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
118-K-1_P2_Deep_7	Rad	Strontium-90	10098-97-2	4	2	2	50	pCi/g	0.027	0.055	3.4	7.3	0.53	7.3	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_7	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-1.26E+00	2.7	7.5	7.5	0	7.5	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Deep_7	Rad	Uranium-233/234	U-233/234	4	3	1	75	pCi/g	0.19	0.19	0.42	0.46	0.055	0.46	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Deep_7	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.25	0.77	0.44	0.74	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	4.71E+06	6.91E+06	0.17	6.81E+06	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,790	2,110	0.073	2,093	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	43,800	67,500	0.18	67,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_8	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	198	334	0.22	334	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_8	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	459	697	0.18	693	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	64	109	0.25	103	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,510	4,880	0.15	4,802	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,390	11,800	0.34	11,230	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,200	18,500	0.081	18,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_8	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.20E+07	3.63E+07	0.20	3.60E+07	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,500	3,910	0.22	3,744	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	274,000	541,000	0.30	515,801	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	261	495	0.26	495	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_8	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,910	8,390	0.15	8,390	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Deep_8	non-Rad	Selenium	7782-49-2	4	1	3	25	ug/kg	673	765	268	268	0	268	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Selenium was not processed!
118-K-1_P2_Deep_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,116	2,384	0.38	2,244	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	70,800	83,600	0.068	83,544	95% Student's-t UCL	--
118-K-1_P2_Deep_8	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	42,200	52,500	0.098	52,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_8	Rad	Americium-241	14596-10-2	4	1	3	25	pCi/g	0.029	0.13	0.28	0.28	0	0.28	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Americium-241 was not processed!
118-K-1_P2_Deep_8	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	-1.00E-02	0.60	0.84	0.84	0	0.84	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Deep_8	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.11	0.31	0.46	0.29	95% Student's-t UCL	--
118-K-1_P2_Deep_8	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-2.00E+00	-6.40E-02	5.8	5.8	0	5.8	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Deep_8	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.31	0.77	0.41	0.73	95% Student's-t UCL	--
118-K-1_P2_Deep_8	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.38	0.80	0.38	0.75	95% Student's-t UCL	--
118-K-1_P2_Deep_Focused_1	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	4.30E+06	4.30E+06	0	4.30E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Antimony	7440-36-0	1	1	0	100	ug/kg	--	--	3,040	3,040	0	3,040	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,910	1,910	0	1,910	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	41,900	41,900	0	41,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	183	183	0	183	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	1,260	1,260	0	1,260	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	79	79	0	79	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,030	6,030	0	6,030	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	5,300	5,300	0	5,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	13,600	13,600	0	13,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	1.77E+07	1.77E+07	0	1.77E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	8,410	8,410	0	8,410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	232,000	232,000	0	232,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Mercury	7439-97-6	1	1	0	100	ug/kg	--	--	203	203	0	203	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	517	517	0	517	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	6,550	6,550	0	6,550	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	1	1	0	100	ug/kg	--	--	1,706	1,706	0	1,706	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	44,900	44,900	0	44,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	37,200	37,200	0	37,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.99	0.99	0	0.99	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	2.3	2.3	0	2.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	11	11	0	11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Europium-152	14683-23-9	1	1	0	100	pCi/g	--	--	2.3	2.3	0	2.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Nickel-63	13981-37-8	1	1	0	100	pCi/g	--	--	57	57	0	57	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	1	1	0	100	pCi/g	--	--	0.053	0.053	0	0.053	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	3.7	3.7	0	3.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Strontium-90	10098-97-2	1	1	0	100	pCi/g	--	--	29	29	0	29	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.54	0.54	0	0.54	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_1	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.57	0.57	0	0.57	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Aluminum	7429-90-5	6	6	0	100	ug/kg	--	--	3.28E+06	6.61E+06	0.27	6.61E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Arsenic	7440-38-2	6	6	0	100	ug/kg	--	--	1,000	2,130	0.33	2,130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Barium	7440-39-3	6	6	0	100	ug/kg	--	--	38,700	56,100	0.12	56,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Beryllium	7440-41-7	6	6	0	100	ug/kg	--	--	161	228	0.13	228	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Boron	7440-42-8	6	3	3	50	ug/kg	1,440	1,680	575	791	0.17	791	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Cadmium	7440-43-9	6	4	2	67	ug/kg	195	210	53	69	0.13	69	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Chromium	7440-47-3	6	6	0	100	ug/kg	--	--	2,780	13,000	0.66	13,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Cobalt	7440-48-4	6	6	0	100	ug/kg	--	--	3,850	6,420	0.20	6,420	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Copper	7440-50-8	6	6	0	100	ug/kg	--	--	10,400	13,000	0.079	13,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Iron	7439-89-6	6	6	0	100	ug/kg	--	--	1.22E+07	2.08E+07	0.22	2.08E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Lead	7439-92-1	6	6	0	100	ug/kg	--	--	1,780	2,870	0.20	2,870	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Manganese	7439-96-5	6	6	0	100	ug/kg	--	--	175,000	256,000	0.14	256,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Molybdenum	7439-98-7	6	6	0	100	ug/kg	--	--	182	258	0.11	258	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Nickel	7440-02-0	6	6	0	100	ug/kg	--	--	3,470	11,700	0.48	11,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	6	6	0	100	ug/kg	--	--	1,182	1,823	0.15	1,823	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Vanadium	7440-62-2	6	6	0	100	ug/kg	--	--	32,300	67,300	0.29	67,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	non-Rad	Zinc	7440-66-6	6	6	0	100	ug/kg	--	--	25,900	42,300	0.18	42,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Americium-241	14596-10-2	6	3	3	50	pCi/g	-2.20E-02	0.18	0.32	2.2	1.0	2.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Carbon-14	14762-75-5	6	5	1	83	pCi/g	0.41	0.41	0.78	14	1.4	14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Cesium-137	10045-97-3	6	6	0	100	pCi/g	--	--	0.20	4.4	1.3	4.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Cobalt-60	10198-40-0	6	4	2	67	pCi/g	0.026	0.043	0.014	0.40	1.6	0.40	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Europium-152	14683-23-9	6	6	0	100	pCi/g	--	--	0.58	37	1.9	37	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Europium-154	15585-10-1	6	3	3	50	pCi/g	0.071	0.096	0.059	1.9	1.3	1.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Nickel-63	13981-37-8	6	2	4	33	pCi/g	-7.59E-01	1.8	4.0	14	0.77	14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-238	13981-16-3	6	1	5	17	pCi/g	-3.90E-02	0.053	0.32	0.32	0	0.32	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-239/240	PU-239/240	6	2	4	33	pCi/g	0.022	0.27	0.32	1.6	0.95	1.6	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Strontium-90	10098-97-2	6	4	2	67	pCi/g	-1.30E-02	0.18	0.38	15	1.5	15	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Tritium	10028-17-8	6	2	4	33	pCi/g	1.7	2.5	2.7	8.1	0.71	8.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	6	6	0	100	pCi/g	--	--	0.42	0.65	0.16	0.65	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Deep_Focused_2	Rad	Uranium-235	15117-96-1	6	2	4	33	pCi/g	0.010	0.048	0.029	0.041	0.24	0.041	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_2	Rad	Uranium-238	U-238	6	6	0	100	pCi/g	--	--	0.40	0.61	0.15	0.61	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Aluminum	7429-90-5	2	2	0	100	ug/kg	--	--	6.04E+06	6.45E+06	0.046	6.45E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	1,780	2,080	0.11	2,080	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	68,200	86,500	0.17	86,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Beryllium	7440-41-7	2	2	0	100	ug/kg	--	--	281	330	0.11	330	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Boron	7440-42-8	2	2	0	100	ug/kg	--	--	475	523	0.068	523	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Cadmium	7440-43-9	2	2	0	100	ug/kg	--	--	72	78	0.051	78	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Chromium	7440-47-3	2	2	0	100	ug/kg	--	--	3,820	6,900	0.41	6,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Cobalt	7440-48-4	2	2	0	100	ug/kg	--	--	5,710	6,460	0.087	6,460	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Copper	7440-50-8	2	2	0	100	ug/kg	--	--	15,900	17,600	0.072	17,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Iron	7439-89-6	2	2	0	100	ug/kg	--	--	2.33E+07	2.98E+07	0.17	2.98E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Lead	7439-92-1	2	2	0	100	ug/kg	--	--	2,350	3,290	0.24	3,290	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Manganese	7439-96-5	2	2	0	100	ug/kg	--	--	339,000	345,000	0.012	345,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Molybdenum	7439-98-7	2	2	0	100	ug/kg	--	--	323	394	0.14	394	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Nickel	7440-02-0	2	2	0	100	ug/kg	--	--	6,080	9,130	0.28	9,130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	2	2	0	100	ug/kg	--	--	1,673	1,837	0.066	1,837	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Vanadium	7440-62-2	2	2	0	100	ug/kg	--	--	53,100	70,500	0.20	70,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	non-Rad	Zinc	7440-66-6	2	2	0	100	ug/kg	--	--	38,600	47,300	0.14	47,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Americium-241	14596-10-2	2	2	0	100	pCi/g	--	--	1.9	3.9	0.50	3.9	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Cesium-137	10045-97-3	2	2	0	100	pCi/g	--	--	6.8	36	0.97	36	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Cobalt-60	10198-40-0	2	2	0	100	pCi/g	--	--	0.026	0.20	1.1	0.20	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Nickel-63	13981-37-8	2	2	0	100	pCi/g	--	--	6.2	8.4	0.22	8.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-238	13981-16-3	2	1	1	50	pCi/g	0.050	0.050	0.38	0.38	0	0.38	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-239/240	PU-239/240	2	2	0	100	pCi/g	--	--	1.3	4.2	0.73	4.2	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Strontium-90	10098-97-2	2	2	0	100	pCi/g	--	--	2.7	12	0.89	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Tritium	10028-17-8	2	2	0	100	pCi/g	--	--	7.4	30	0.85	30	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Uranium-233/234	U-233/234	2	2	0	100	pCi/g	--	--	0.41	0.42	0.017	0.42	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Deep_Focused_7	Rad	Uranium-238	U-238	2	2	0	100	pCi/g	--	--	0.56	0.62	0.066	0.62	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_1	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.10E+06	5.76E+06	0.067	5.76E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,890	2,420	0.11	2,420	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	38,300	56,900	0.17	55,474	95% Student's-t UCL	--
118-K-1_P2_Shallow_1	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	216	253	0.072	251	95% Student's-t UCL	--
118-K-1_P2_Shallow_1	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	781	1,550	0.33	1,458	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_1	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	58	77	0.11	77	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,280	6,290	0.091	6,290	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,500	7,650	0.15	7,406	95% Student's-t UCL	--
118-K-1_P2_Shallow_1	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	11,300	13,800	0.082	13,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.63E+07	2.07E+07	0.099	2.07E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,810	3,360	0.087	3,360	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	246,000	295,000	0.081	295,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	277	427	0.19	423	95% Student's-t UCL	--
118-K-1_P2_Shallow_1	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,290	7,140	0.052	7,140	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	44,100	56,300	0.10	55,364	95% Student's-t UCL	--
118-K-1_P2_Shallow_1	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	33,200	44,300	0.13	44,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	4	4	0	100	pCi/g	--	--	1.6	4.5	0.57	4.5	Maximum Detect	Warning: One or more Recommended UCL(s) not available! When a data set follows an approximate (e.g., normal) distribution passing one of the GOF test When applicable, it is suggested to use a UCL based upon a distribution (e.g., gamma) passing both GOF tests in ProUCL Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
118-K-1_P2_Shallow_1	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.052	0.083	0.073	0.073	0	0.073	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-8.73E-01	1.5	6.5	6.5	0	6.5	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Shallow_10	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	8.44E+06	9.82E+06	0.075	9.80E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,350	3,370	0.15	3,370	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_10	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	69,500	76,900	0.042	76,559	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	325	407	0.095	401	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,070	1,670	0.18	1,659	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	94	121	0.11	121	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_10	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	7,900	11,600	0.17	11,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_10	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,270	9,880	0.14	9,600	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,100	23,400	0.17	22,649	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.53E+07	3.25E+07	0.12	3.15E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,880	4,510	0.068	4,510	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_10	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	365,000	464,000	0.11	452,510	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	451	1,590	0.72	1,590	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_10	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	9,340	10,800	0.066	10,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_10	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	7,500	46,000	0.72	44,542	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,590	2,221	0.14	2,171	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	65,000	86,100	0.14	83,071	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	48,400	57,400	0.087	56,346	95% Modified-t UCL	--
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.34	0.71	0.88	0.88	0	0.88	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed! Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_10	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.064	0.12	0.074	0.11	0.27	0.11	Maximum Detect	
118-K-1_P2_Shallow_10	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.45	0.74	0.21	0.72	95% Student's-t UCL	--
118-K-1_P2_Shallow_10	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.53	0.75	0.14	0.73	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.66E+06	7.97E+06	0.17	7.97E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,100	3,110	0.19	2,973	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	57,800	75,500	0.12	75,402	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	213	311	0.17	311	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,300	1,880	0.18	1,847	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	80	124	0.19	124	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,830	9,360	0.20	9,103	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,780	8,040	0.14	8,040	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	12,300	18,000	0.16	18,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.10E+07	2.64E+07	0.096	2.64E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,270	5,630	0.26	5,321	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	312,000	351,000	0.051	351,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	383	650	0.23	650	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,610	10,700	0.20	10,657	95% Student's-t UCL	--
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	16,000	121,000	0.69	121,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	54,200	71,900	0.12	71,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	40,300	56,000	0.14	56,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11A	Rad	Cesium-137	10045-97-3	4	3	1	75	pCi/g	0.063	0.063	0.083	0.14	0.27	0.14	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Shallow_11B	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	9.46E+06	1.06E+07	0.061	1.06E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,780	3,260	0.067	3,228	95% Student's-t UCL	--
118-K-1_P2_Shallow_11B	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	78,400	88,200	0.055	87,080	95% Student's-t UCL	--
118-K-1_P2_Shallow_11B	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	346	385	0.051	383	95% Student's-t UCL	--
118-K-1_P2_Shallow_11B	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	2,080	2,290	0.050	2,290	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	121	136	0.051	136	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	11,500	12,800	0.045	12,715	95% Student's-t UCL	--
118-K-1_P2_Shallow_11B	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,620	7,860	0.073	7,860	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,200	17,700	0.068	17,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.40E+07	2.54E+07	0.026	2.54E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,760	5,250	0.046	5,250	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	369,000	404,000	0.038	404,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	527	678	0.13	678	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	10,900	12,000	0.040	12,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	65,900	401,000	0.78	390,793	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	4	1	3	25	ug/kg	1,000	5,200	1,000	1,000	0	1,000	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nitrite was not processed!
118-K-1_P2_Shallow_11B	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	60,000	69,400	0.061	69,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11B	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	45,700	58,300	0.10	57,921	95% Student's-t UCL	--
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	4	2	2	50	pCi/g	0.55	0.77	0.84	0.88	0.035	0.88	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11B	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.074	0.079	0.076	0.10	0.19	0.099	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	8.12E+06	1.26E+07	0.19	1.26E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,610	3,770	0.17	3,653	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	68,500	96,400	0.14	96,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	286	433	0.17	433	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,630	2,440	0.17	2,414	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	98	146	0.17	146	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	8,890	14,900	0.23	14,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,170	7,710	0.091	7,710	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,600	20,200	0.18	19,453	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.11E+07	2.53E+07	0.083	2.53E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,270	5,140	0.084	5,085	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	326,000	441,000	0.12	441,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	26	30	39	39	0	39	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	438	517	0.079	517	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11C	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,650	14,400	0.21	14,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	17,300	174,000	0.81	169,367	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	56,400	67,000	0.080	65,680	95% Student's-t UCL	--
118-K-1_P2_Shallow_11C	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	41,600	49,600	0.077	49,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.52	0.77	0.87	0.87	0	0.87	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Shallow_11C	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.024	0.095	0.48	0.095	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	7.72E+06	1.17E+07	0.17	1.17E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,230	3,120	0.15	3,120	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	67,300	89,100	0.13	89,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	293	395	0.12	395	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,720	2,320	0.17	2,320	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	114	165	0.18	162	95% Student's-t UCL	--
118-K-1_P2_Shallow_11D	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	9,710	12,600	0.12	12,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,690	7,360	0.043	7,275	95% Student's-t UCL	--
118-K-1_P2_Shallow_11D	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,200	15,000	0.023	14,940	95% Student's-t UCL	--
118-K-1_P2_Shallow_11D	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.16E+07	2.39E+07	0.046	2.39E+07	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,260	5,840	0.13	5,756	95% Student's-t UCL	--
118-K-1_P2_Shallow_11D	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	298,000	409,000	0.13	409,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	450	578	0.13	563	95% Modified-t UCL	--
118-K-1_P2_Shallow_11D	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	9,590	11,600	0.083	11,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	42,700	148,000	0.59	148,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11D	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	56,300	62,900	0.047	62,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11D	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	46,500	49,800	0.033	49,719	95% Student's-t UCL	--
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	4	2	2	50	pCi/g	-2.96E-01	0.92	1.1	1.2	0.064	1.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11D	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.072	0.089	0.12	0.12	0	0.12	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Shallow_11E	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	9.22E+06	1.12E+07	0.084	1.12E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,310	3,960	0.26	3,772	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	70,700	94,900	0.13	94,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	326	383	0.068	379	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,460	2,380	0.22	2,315	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	94	146	0.23	146	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	9,040	12,700	0.16	12,619	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,040	7,830	0.12	7,830	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,100	23,600	0.26	22,325	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.38E+07	2.71E+07	0.058	2.68E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,310	6,070	0.27	6,070	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	363,000	436,000	0.081	431,889	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	27	27	9.3	9.3	0	9.3	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	455	568	0.093	563	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,720	11,100	0.11	11,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	10,700	56,000	0.51	56,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	52,800	70,600	0.14	68,495	95% Student's-t UCL	--
118-K-1_P2_Shallow_11E	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	40,300	54,300	0.13	54,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	-6.30E-02	0.24	2.1	2.1	0	2.1	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Shallow_11E	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.059	0.086	0.091	0.14	0.29	0.14	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11F	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.67E+06	9.42E+06	0.22	9.42E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,410	3,520	0.19	3,379	95% Student's-t UCL	--
118-K-1_P2_Shallow_11F	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	55,300	83,400	0.17	83,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	249	316	0.12	316	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	884	2,210	0.35	2,210	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	88	149	0.28	149	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	6,640	11,200	0.23	11,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,490	8,150	0.10	8,056	95% Student's-t UCL	--
118-K-1_P2_Shallow_11F	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	14,300	16,300	0.056	16,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.22E+07	2.64E+07	0.074	2.63E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_11F	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,700	5,510	0.20	5,510	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	322,000	378,000	0.067	374,448	95% Student's-t UCL	--
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	26	29	22	22	0	22	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	425	942	0.42	884	95% Modified-t UCL	--
118-K-1_P2_Shallow_11F	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,730	11,300	0.12	11,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	12,300	65,100	0.54	65,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	60,800	77,500	0.12	77,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11F	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	49,700	51,700	0.017	51,655	95% Student's-t UCL	--
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.095	0.76	1.3	1.3	0	1.3	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Shallow_11F	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.084	0.11	0.15	0.22	0.29	0.22	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-8.73E-01	1.0	3.7	3.7	0	3.7	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Shallow_11G	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	5.50E+06	7.26E+06	0.11	7.17E+06	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,880	2,690	0.15	2,690	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	53,200	60,300	0.069	60,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	231	290	0.10	290	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	724	1,400	0.31	1,340	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	83	109	0.12	109	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	4,970	8,150	0.21	8,117	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,910	8,360	0.081	8,360	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,100	16,900	0.047	16,781	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.39E+07	2.87E+07	0.083	2.83E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,040	4,750	0.18	4,750	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	305,000	388,000	0.11	377,844	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	417	608	0.18	582	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,790	9,760	0.16	9,760	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11G	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	10,100	47,300	0.75	42,833	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	70,400	87,400	0.100	85,361	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	45,600	56,300	0.093	55,130	95% Student's-t UCL	--
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	4	2	2	50	pCi/g	0.31	0.42	1.5	1.9	0.17	1.9	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11G	Rad	Cesium-137	10045-97-3	4	3	1	75	pCi/g	0.070	0.070	0.060	0.16	0.45	0.16	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11H	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.04E+06	6.51E+06	0.031	6.51E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,930	2,880	0.20	2,774	95% Modified-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	44,100	55,500	0.099	55,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	235	256	0.038	256	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	893	1,310	0.19	1,258	95% Student's-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	94	104	0.046	103	95% Student's-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,900	7,110	0.091	6,938	95% Student's-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,480	7,810	0.087	7,810	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,800	16,500	0.080	16,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_11H	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.18E+07	2.71E+07	0.11	2.71E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,510	7,930	0.28	7,929	95% Student's-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	296,000	344,000	0.077	344,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	402	491	0.086	488	95% Student's-t UCL	--
118-K-1_P2_Shallow_11H	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,050	9,390	0.071	9,390	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	3,200	21,000	1.0	21,000	Maximum Detect	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
118-K-1_P2_Shallow_11H	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	60,300	82,400	0.16	82,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	44,500	55,900	0.12	55,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	4	3	1	75	pCi/g	0.65	0.65	0.98	1.6	0.24	1.6	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11H	Rad	Cesium-137	10045-97-3	4	3	1	75	pCi/g	0.080	0.080	0.17	0.27	0.25	0.27	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	4	3	1	75	pCi/g	0.19	0.19	0.18	0.29	0.25	0.29	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates. Note: Sample size is small (e.g., <10), if data are collected using ISM approach, you should use guidance provided in ITRC Tech Reg Guide on ISM (ITRC, 2012) to compute statistics of interest.
118-K-1_P2_Shallow_2	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	4.71E+06	7.38E+06	0.22	7.08E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,540	2,870	0.26	2,870	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_2	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	40,000	59,000	0.20	56,878	95% Modified-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	210	292	0.14	285	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	542	1,390	0.47	1,390	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_2	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	45	90	0.34	84	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	3,840	9,040	0.40	8,523	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,760	6,400	0.044	6,386	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	12,300	13,800	0.048	13,685	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.80E+07	2.00E+07	0.048	1.99E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,480	3,390	0.15	3,338	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	250,000	314,000	0.10	309,188	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	291	385	0.13	375	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	5,500	8,890	0.20	8,841	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	896	2,000	0.32	1,957	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	51,500	54,600	0.024	54,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_2	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	36,100	40,000	0.053	40,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	4	2	2	50	pCi/g	0.39	0.52	0.72	1.0	0.23	1.0	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_2	Rad	Cesium-137	10045-97-3	4	2	2	50	pCi/g	0.056	0.085	0.069	0.097	0.24	0.097	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	4	1	3	25	pCi/g	0.14	0.24	0.23	0.23	0	0.23	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
118-K-1_P2_Shallow_2	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.45	0.91	0.28	0.89	95% Student's-t UCL	--
118-K-1_P2_Shallow_2	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.30	0.67	0.32	0.66	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.39E+06	8.08E+06	0.099	7.96E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,300	2,970	0.12	2,875	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	46,100	64,000	0.14	62,560	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	259	312	0.084	305	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	981	1,740	0.25	1,659	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	70	85	0.085	85	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,740	9,180	0.19	9,180	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,060	6,680	0.045	6,609	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,600	14,900	0.041	14,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.88E+07	2.11E+07	0.049	2.11E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,480	4,450	0.12	4,339	95% Modified-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	265,000	316,000	0.077	316,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	381	444	0.069	444	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,880	9,290	0.13	9,290	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,131	2,277	0.28	2,249	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	51,000	57,700	0.055	57,548	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	37,300	43,400	0.070	43,400	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	4	3	1	75	pCi/g	0.72	0.72	0.89	1.2	0.14	1.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_3	Rad	Plutonium-239/240	PU-239/240	4	1	3	25	pCi/g	0.0040	0.017	0.014	0.014	0	0.014	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Plutonium-239/240 was not processed!
118-K-1_P2_Shallow_3	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.39	0.69	0.25	0.66	95% Student's-t UCL	--
118-K-1_P2_Shallow_3	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.38	0.77	0.28	0.76	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	3.55E+06	6.79E+06	0.28	6.79E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,240	3,340	0.42	3,167	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	35,800	53,000	0.17	53,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	168	283	0.22	277	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Boron	7440-42-8	4	2	2	50	ug/kg	1,530	1,940	911	1,020	0.080	1,020	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_4	non-Rad	Cadmium	7440-43-9	4	2	2	50	ug/kg	191	242	52	52	0.0055	52	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_4	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	2,830	6,920	0.41	6,920	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,900	7,540	0.11	7,321	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	10,500	14,100	0.12	14,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.81E+07	2.25E+07	0.099	2.20E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	1,950	4,220	0.33	4,059	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	247,000	291,000	0.086	291,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	274	316	0.066	316	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	4,410	7,600	0.22	7,600	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,418	1,792	0.11	1,792	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	48,600	65,700	0.15	65,252	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	36,800	41,900	0.066	41,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.19	0.59	0.86	0.86	0	0.86	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	4	1	3	25	pCi/g	0.017	0.066	0.27	0.27	0	0.27	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cobalt-60 was not processed!
118-K-1_P2_Shallow_4	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.54	0.66	0.089	0.64	95% Student's-t UCL	--
118-K-1_P2_Shallow_4	Rad	Uranium-235	15117-96-1	4	2	2	50	pCi/g	0.025	0.041	0.040	0.061	0.29	0.061	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_4	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.47	0.60	0.11	0.60	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.54E+06	8.69E+06	0.13	8.45E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,020	2,930	0.17	2,930	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	53,800	75,500	0.17	73,049	95% Modified-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	287	351	0.093	346	95% Student's-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	874	1,610	0.29	1,610	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	69	93	0.15	93	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	4,240	8,010	0.33	7,592	95% Modified-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,180	8,490	0.081	8,489	95% Student's-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,100	19,300	0.093	19,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.66E+07	3.01E+07	0.060	3.01E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,420	3,670	0.20	3,670	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	350,000	398,000	0.058	395,939	95% Student's-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	24	27	58	58	0	58	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	414	550	0.12	550	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	6,340	8,640	0.15	8,469	95% Student's-t UCL	--
118-K-1_P2_Shallow_5	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	1,600	28,400	1.4	28,400	Maximum Detect	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
118-K-1_P2_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	4	2	2	50	ug/kg	3,400	3,410	1,060	2,100	0.47	2,100	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_5	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	64,400	81,200	0.11	81,200	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	44,400	51,700	0.071	51,700	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.17	0.61	0.79	0.79	0	0.79	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Shallow_5	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.063	0.094	0.23	0.23	0	0.23	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	4	1	3	25	pCi/g	0.14	0.19	0.32	0.32	0	0.32	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
118-K-1_P2_Shallow_6	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.56E+06	7.45E+06	0.054	7.45E+06	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,930	2,540	0.12	2,540	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	55,700	123,000	0.39	114,051	95% Student's-t UCL	--
118-K-1_P2_Shallow_6	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	319	345	0.036	345	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	789	967	0.090	957	95% Student's-t UCL	--
118-K-1_P2_Shallow_6	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	79	91	0.059	91	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,200	6,250	0.082	6,250	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,900	8,650	0.11	8,456	95% Modified-t UCL	--
118-K-1_P2_Shallow_6	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	15,500	18,800	0.088	18,432	95% Student's-t UCL	--
118-K-1_P2_Shallow_6	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.89E+07	2.95E+07	0.0090	2.95E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,030	4,600	0.20	4,466	95% Student's-t UCL	--
118-K-1_P2_Shallow_6	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	379,000	392,000	0.014	392,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	305	390	0.13	390	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,700	8,810	0.057	8,810	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	72,800	79,500	0.036	79,215	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_6	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	45,500	56,100	0.091	56,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	4	1	3	25	pCi/g	0.29	0.62	0.81	0.81	0	0.81	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Carbon-14 was not processed!
118-K-1_P2_Shallow_6	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.027	0.071	0.10	0.10	0	0.10	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	4	1	3	25	pCi/g	0.064	0.19	0.20	0.20	0	0.20	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Europium-152 was not processed!
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-1.74E+00	2.3	8.3	8.3	0	8.3	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Shallow_7	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.83E+06	9.47E+06	0.13	9.46E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	1,600	1,760	16,300	16,300	0	16,300	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,400	3,670	0.20	3,546	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	59,200	73,900	0.090	73,740	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	269	374	0.14	365	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Boron	7440-42-8	4	3	1	75	ug/kg	5,400	5,400	1,350	1,840	0.15	1,840	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_7	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	7,550	10,300	0.17	10,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	9,020	9,670	0.033	9,670	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,800	22,500	0.12	22,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	4	1	3	25	ug/kg	352	1,750	76	76	0	76	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Di-n-butylphthalate was not processed!
118-K-1_P2_Shallow_7	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.73E+07	2.91E+07	0.033	2.91E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,870	12,300	0.58	11,142	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	355,000	446,000	0.10	437,260	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	4	2	2	50	ug/kg	27	28	62	129	0.50	129	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	4	1	3	25	ug/kg	5,340	6,030	650	650	0	650	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Molybdenum was not processed!
118-K-1_P2_Shallow_7	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,750	11,900	0.20	11,900	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,075	2,328	0.42	2,186	95% Modified-t UCL	--
118-K-1_P2_Shallow_7	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	67,900	79,100	0.064	79,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	50,400	81,100	0.23	77,182	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	4	3	1	75	pCi/g	0.86	0.86	1.2	1.2	0.0050	1.2	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_7	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.064	0.27	0.56	0.26	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.35	0.72	0.35	0.69	95% Student's-t UCL	--
118-K-1_P2_Shallow_7	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.36	0.78	0.42	0.73	95% Modified-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.48E+06	7.82E+06	0.088	7.63E+06	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,220	3,500	0.22	3,422	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	64,100	79,000	0.10	78,248	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	320	386	0.089	377	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	577	1,020	0.26	1,020	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	77	116	0.16	116	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,030	8,650	0.29	8,115	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	8,030	13,800	0.27	13,365	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	17,600	20,000	0.062	20,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.69E+07	3.23E+07	0.088	3.15E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,350	7,080	0.38	6,672	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	335,000	453,000	0.13	453,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	250	440	0.27	435	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	7,510	11,700	0.20	11,306	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,066	1,456	0.14	1,456	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	73,700	82,400	0.047	82,026	95% Student's-t UCL	--
118-K-1_P2_Shallow_8	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	46,500	58,300	0.12	58,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	4	4	0	100	pCi/g	--	--	0.64	1.4	0.44	1.3	95% Modified-t UCL	--
118-K-1_P2_Shallow_8	Rad	Cesium-137	10045-97-3	4	1	3	25	pCi/g	0.020	0.038	0.15	0.15	0	0.15	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cesium-137 was not processed!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	4	1	3	25	pCi/g	-3.49E+00	-2.19E+00	3.4	3.4	0	3.4	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Tritium was not processed!
118-K-1_P2_Shallow_8	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.47	0.76	0.21	0.76	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_8	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.36	0.49	0.14	0.49	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	8.90E+06	1.04E+07	0.077	1.04E+07	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,370	3,100	0.11	3,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	70,300	84,500	0.082	84,500	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	315	369	0.077	369	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	1,880	2,630	0.15	2,630	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	129	157	0.089	156	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	9,590	13,000	0.15	13,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	6,640	8,600	0.11	8,484	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,900	17,100	0.089	17,100	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	2.25E+07	2.63E+07	0.070	2.63E+07	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,570	5,440	0.081	5,349	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	368,000	402,000	0.040	400,862	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	4	1	3	25	ug/kg	27	28	21	21	0	21	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	466	645	0.15	641	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	10,200	11,800	0.069	11,733	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	4	4	0	100	ug/kg	--	--	33,500	258,000	0.91	231,145	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	4	1	3	25	ug/kg	1,000	1,000	1,000	1,000	0	1,000	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Nitrite was not processed!
118-K-1_P2_Shallow_9	non-Rad	Total_U_Isotopes	Total_U_Isotopes	4	4	0	100	ug/kg	--	--	1,209	2,822	0.38	2,721	95% Student's-t UCL	--
118-K-1_P2_Shallow_9	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	56,600	69,800	0.093	69,800	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	46,200	56,200	0.084	55,577	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_9	Rad	Cesium-137	10045-97-3	4	4	0	100	pCi/g	--	--	0.048	0.12	0.44	0.12	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	4	2	2	50	pCi/g	0.032	0.058	0.047	0.053	0.085	0.053	Maximum Detect	Highest Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
118-K-1_P2_Shallow_9	Rad	Uranium-233/234	U-233/234	4	4	0	100	pCi/g	--	--	0.52	0.63	0.092	0.61	95% Modified-t UCL	--
118-K-1_P2_Shallow_9	Rad	Uranium-238	U-238	4	4	0	100	pCi/g	--	--	0.41	0.95	0.38	0.91	95% Student's-t UCL	--
118-K-1_P2_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	3	3	0	100	ug/kg	--	--	4.40E+06	7.04E+06	0.23	7.04E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	3	1	2	33	ug/kg	759	780	369	369	0	369	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	3	3	0	100	ug/kg	--	--	1,540	3,980	0.54	3,980	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Barium	7440-39-3	3	3	0	100	ug/kg	--	--	57,800	80,500	0.17	80,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	3	3	0	100	ug/kg	--	--	240	318	0.14	318	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Boron	7440-42-8	3	3	0	100	ug/kg	--	--	407	853	0.38	853	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	3	3	0	100	ug/kg	--	--	78	116	0.21	116	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	3	3	0	100	ug/kg	--	--	3,120	17,400	0.88	17,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	3	3	0	100	ug/kg	--	--	5,510	8,820	0.24	8,820	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Copper	7440-50-8	3	3	0	100	ug/kg	--	--	11,800	16,400	0.17	16,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	3	3	0	100	ug/kg	--	--	1.82E+07	3.44E+07	0.32	3.44E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Lead	7439-92-1	3	3	0	100	ug/kg	--	--	2,220	2,690	0.11	2,690	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	3	3	0	100	ug/kg	--	--	294,000	464,000	0.22	464,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	3	3	0	100	ug/kg	--	--	200	481	0.41	481	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	3	3	0	100	ug/kg	--	--	5,780	26,500	0.93	26,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	3	3	0	100	ug/kg	--	--	1,435	2,313	0.24	2,313	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	3	3	0	100	ug/kg	--	--	41,700	99,100	0.41	99,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	3	3	0	100	ug/kg	--	--	32,900	53,000	0.24	53,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	3	2	1	67	pCi/g	0.61	0.61	0.90	1.7	0.44	1.7	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	3	3	0	100	pCi/g	--	--	0.39	0.80	0.44	0.80	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-238	U-238	3	3	0	100	pCi/g	--	--	0.48	0.78	0.24	0.78	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	4.41E+06	4.41E+06	0	4.41E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,560	1,560	0	1,560	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	52,000	52,000	0	52,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	285	285	0	285	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	73	73	0	73	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	2,390	2,390	0	2,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,690	7,690	0	7,690	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,300	14,300	0	14,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_Focused_4	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.74E+07	2.74E+07	0	2.74E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	2,020	2,020	0	2,020	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	316,000	316,000	0	316,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	261	261	0	261	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,640	5,640	0	5,640	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	1	1	0	100	ug/kg	--	--	1,110	1,110	0	1,110	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	65,000	65,000	0	65,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	44,300	44,300	0	44,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	3.1	3.1	0	3.1	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.33	0.33	0	0.33	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.37	0.37	0	0.37	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	5.27E+06	5.27E+06	0	5.27E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	1,600	1,600	0	1,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	55,700	55,700	0	55,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	196	196	0	196	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	483	483	0	483	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	66	66	0	66	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	3,900	3,900	0	3,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,390	7,390	0	7,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	14,200	14,200	0	14,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.53E+07	2.53E+07	0	2.53E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	1,630	1,630	0	1,630	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	293,000	293,000	0	293,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	328	328	0	328	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	5,780	5,780	0	5,780	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	1	1	0	100	ug/kg	--	--	1,265	1,265	0	1,265	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	70,300	70,300	0	70,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	42,300	42,300	0	42,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	1.3	1.3	0	1.3	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.37	0.37	0	0.37	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.026	0.026	0	0.026	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.42	0.42	0	0.42	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Aluminum	7429-90-5	5	5	0	100	ug/kg	--	--	6.92E+06	9.10E+06	0.10	9.10E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	5	5	0	100	ug/kg	--	--	2,260	3,740	0.20	3,740	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_Focused_6	non-Rad	Barium	7440-39-3	5	5	0	100	ug/kg	--	--	55,000	86,200	0.19	86,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	5	5	0	100	ug/kg	--	--	246	302	0.084	302	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Boron	7440-42-8	5	1	4	20	ug/kg	5,130	5,310	1,390	1,390	0	1,390	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	9,900	20,300	0.29	20,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	5	5	0	100	ug/kg	--	--	5,370	6,710	0.085	6,710	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Copper	7440-50-8	5	5	0	100	ug/kg	--	--	14,900	17,200	0.058	17,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Iron	7439-89-6	5	5	0	100	ug/kg	--	--	1.64E+07	1.80E+07	0.039	1.80E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	3,340	4,810	0.14	4,810	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	5	5	0	100	ug/kg	--	--	255,000	315,000	0.099	315,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	5	5	0	100	ug/kg	--	--	12,100	20,400	0.24	20,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	5	5	0	100	ug/kg	--	--	1,462	2,435	0.20	2,435	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	5	5	0	100	ug/kg	--	--	39,700	43,900	0.042	43,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	5	5	0	100	ug/kg	--	--	34,100	40,300	0.075	40,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	Rad	Cesium-137	10045-97-3	5	4	1	80	pCi/g	0.043	0.043	0.039	0.63	1.5	0.63	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	5	1	4	20	pCi/g	-4.56E-01	0.94	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-233/234	U-233/234	5	5	0	100	pCi/g	--	--	0.31	0.55	0.21	0.55	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-238	U-238	5	5	0	100	pCi/g	--	--	0.49	0.82	0.20	0.82	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Aluminum	7429-90-5	1	1	0	100	ug/kg	--	--	6.68E+06	6.68E+06	0	6.68E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	4,160	4,160	0	4,160	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	67,700	67,700	0	67,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	280	280	0	280	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Boron	7440-42-8	1	1	0	100	ug/kg	--	--	796	796	0	796	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	102	102	0	102	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	7,040	7,040	0	7,040	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	7,220	7,220	0	7,220	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	13,400	13,400	0	13,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Iron	7439-89-6	1	1	0	100	ug/kg	--	--	2.73E+07	2.73E+07	0	2.73E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	3,480	3,480	0	3,480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	369,000	369,000	0	369,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	428	428	0	428	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,980	8,980	0	8,980	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	1	1	0	100	ug/kg	--	--	1,200	1,200	0	1,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	82,100	82,100	0	82,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	48,300	48,300	0	48,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.35	0.35	0	0.35	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.40	0.40	0	0.40	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,190	2,880	0.14	2,804	95% Modified-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	56,500	69,200	0.090	68,765	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	157	373	0.34	373	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Boron	7440-42-8	4	4	0	100	ug/kg	--	--	507	2,970	0.82	2,647	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cadmium	7440-43-9	4	1	3	25	ug/kg	92	99	107	107	0	107	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cadmium was not processed!
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,400	8,640	0.23	8,241	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	10,200	11,600	0.055	11,553	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	16,900	18,300	0.034	18,300	Maximum Detect	Recommended UCL Exceeds Maximum Concentration; EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs also exceed maximum concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	3,730	5,470	0.18	5,257	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	339,000	392,000	0.060	388,798	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	8,380	11,300	0.13	10,964	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nitrate	14797-55-8	4	2	2	50	ug/kg	4,250	4,250	4,470	5,000	0.079	5,000	Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since there are fewer than 6 samples and 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	709	1,060	0.21	1,021	95% Modified-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	28,000	31,700	0.053	31,324	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	509	559	0.039	556	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	478	517	0.033	516	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	67,700	83,700	0.093	82,072	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	48,800	51,500	0.024	51,282	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	8	1	7	13	ug/kg	280	300	611	611	0	611	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	8	8	0	100	ug/kg	--	--	3,000	4,160	0.13	4,053	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Barium	7440-39-3	8	8	0	100	ug/kg	--	--	55,500	80,300	0.10	73,879	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Beryllium	7440-41-7	8	8	0	100	ug/kg	--	--	220	479	0.28	381	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Boron	7440-42-8	8	8	0	100	ug/kg	--	--	954	2,700	0.29	2,047	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cadmium	7440-43-9	8	1	7	13	ug/kg	92	99	102	102	0	102	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Cadmium was not processed!
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Chromium	7440-47-3	8	8	0	100	ug/kg	--	--	7,160	11,500	0.14	10,267	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cobalt	7440-48-4	8	8	0	100	ug/kg	--	--	9,590	11,900	0.080	11,430	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Copper	7440-50-8	8	8	0	100	ug/kg	--	--	17,700	20,100	0.046	19,213	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Lead	7439-92-1	8	8	0	100	ug/kg	--	--	4,680	7,630	0.17	6,987	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Manganese	7439-96-5	8	8	0	100	ug/kg	--	--	341,000	519,000	0.14	452,060	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	8	2	6	25	ug/kg	46	49	102	119	0.11	89	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nickel	7440-02-0	8	8	0	100	ug/kg	--	--	9,580	13,400	0.11	12,571	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nitrate	14797-55-8	8	7	1	88	ug/kg	4,210	4,210	9,780	35,700	0.43	24,999	95% KM (t) UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Selenium	7782-49-2	8	8	0	100	ug/kg	--	--	408	774	0.20	734	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	8	8	0	100	ug/kg	--	--	29,100	39,300	0.091	37,373	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	8	8	0	100	ug/kg	--	--	460	670	0.12	587	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Uranium	7440-61-1	8	8	0	100	ug/kg	--	--	523	641	0.066	599	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Vanadium	7440-62-2	8	8	0	100	ug/kg	--	--	58,600	83,700	0.13	76,175	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Zinc	7440-66-6	8	8	0	100	ug/kg	--	--	46,800	57,100	0.067	54,577	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	11	11	0	100	ug/kg	--	--	1,390	2,920	0.22	2,570	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Barium	7440-39-3	11	11	0	100	ug/kg	--	--	50,800	88,500	0.17	70,251	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Beryllium	7440-41-7	11	11	0	100	ug/kg	--	--	170	598	0.33	449	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Boron	7440-42-8	11	10	1	91	ug/kg	500	500	521	1,750	0.48	1,273	95% GROS Adjusted Gamma UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Chromium	7440-47-3	11	11	0	100	ug/kg	--	--	2,830	11,100	0.34	7,530	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Cobalt	7440-48-4	11	11	0	100	ug/kg	--	--	9,600	13,000	0.091	12,072	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Copper	7440-50-8	11	11	0	100	ug/kg	--	--	17,000	21,500	0.069	19,296	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Fluoride	16984-48-8	11	1	10	9.1	ug/kg	1,800	1,800	1,910	1,910	0	1,910	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Fluoride was not processed!
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	11	4	7	36	ug/kg	94	100	41	335	1.2	108	95% Hall's Bootstrap	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Lead	7439-92-1	11	11	0	100	ug/kg	--	--	2,470	17,900	0.81	10,893	95% Chebyshev (Mean, Sd) UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Manganese	7439-96-5	11	11	0	100	ug/kg	--	--	289,000	488,000	0.13	402,937	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	11	11	0	100	ug/kg	--	--	435	682	0.15	559	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nickel	7440-02-0	11	11	0	100	ug/kg	--	--	6,340	10,700	0.13	10,189	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nitrate	14797-55-8	11	7	4	64	ug/kg	4,250	4,290	4,560	21,100	0.65	10,319	95% KM (t) UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	11	11	0	100	ug/kg	--	--	573	1,330	0.21	1,120	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	11	11	0	100	ug/kg	--	--	24,500	39,700	0.15	31,645	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	11	11	0	100	ug/kg	--	--	473	591	0.074	568	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Uranium	7440-61-1	11	11	0	100	ug/kg	--	--	427	614	0.099	561	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Vanadium	7440-62-2	11	11	0	100	ug/kg	--	--	61,700	101,000	0.14	82,017	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Zinc	7440-66-6	11	11	0	100	ug/kg	--	--	42,000	61,800	0.095	55,448	95% Student's-t UCL	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	4	3	1	75	ug/kg	65	65	67	130	0.35	130	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	1,700	2,800	0.22	2,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	71,200	101,000	0.16	101,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	250	420	0.24	420	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	4	2	2	50	ug/kg	3,400	3,400	3,500	5,100	0.26	5,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	61	87	0.17	87	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	5,000	6,400	0.11	6,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	7,300	10,600	0.15	10,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	19,700	34,900	0.25	34,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	2,800	3,200	0.065	3,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	233,000	316,000	0.13	316,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	4	4	0	100	ug/kg	--	--	450	610	0.15	610	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	4,900	8,700	0.26	8,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	4	4	0	100	ug/kg	--	--	1,400	2,000	0.16	2,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Silver	7440-22-4	4	4	0	100	ug/kg	--	--	50	82	0.25	82	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	4	4	0	100	ug/kg	--	--	21,000	43,900	0.29	43,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	4	4	0	100	ug/kg	--	--	470	600	0.12	600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	4	4	0	100	ug/kg	--	--	400	850	0.32	850	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	71,600	93,600	0.11	93,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	50,000	62,600	0.11	62,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	11	1	10	9.1	ug/kg	350	360	670	670	0	670	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	10	10	0	100	ug/kg	--	--	1,800	3,700	0.18	3,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Barium	7440-39-3	10	10	0	100	ug/kg	--	--	53,900	71,500	0.099	71,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	11	3	8	27	ug/kg	350	360	61	8,300	1.7	8,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	11	3	8	27	ug/kg	350	360	44	2,900	1.6	2,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	11	3	8	27	ug/kg	350	360	37	6,100	1.7	6,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	11	3	8	27	ug/kg	350	360	43	4,100	1.7	4,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	11	8	3	73	ug/kg	350	1,700	18	870	1.7	870	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	10	6	4	60	ug/kg	40	40	80	350	0.69	350	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	10	10	0	100	ug/kg	--	--	5,900	13,500	0.23	13,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	11	3	8	27	ug/kg	350	360	64	11,000	1.7	11,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	11	1	10	9.1	ug/kg	350	360	1,200	1,200	0	1,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	11	3	8	27	ug/kg	350	360	140	11,000	1.6	11,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	9	1	8	11	ug/kg	420	440	480	480	0	480	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	11	2	9	18	ug/kg	350	360	29	1,900	1.4	1,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Lead	7439-92-1	10	10	0	100	ug/kg	--	--	3,500	10,800	0.39	10,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	10	10	0	100	ug/kg	--	--	20	30	0.15	30	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	11	3	8	27	ug/kg	350	360	120	11,000	1.7	11,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	10	5	5	50	ug/kg	360	390	540	800	0.15	800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	10	7	3	70	ug/kg	3,500	3,600	3,500	14,400	0.60	14,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	12	1	11	8.3	ug/kg	9.4	10	18	18	0	18	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Acenaphthene was not processed!
128-K-2_Shallow	non-Rad	Acetone	67-64-1	12	8	4	67	ug/kg	4.5	8.9	6.6	14	0.25	10	95% KM (t) UCL	--
128-K-2_Shallow	non-Rad	Aluminum	7429-90-5	12	12	0	100	ug/kg	--	--	3.35E+06	1.04E+07	0.33	8.07E+06	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	12	2	10	17	ug/kg	2.9	3.1	5.2	16	0.72	11	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	12	1	11	8.3	ug/kg	330	390	500	500	0	500	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	12	12	0	100	ug/kg	--	--	2,000	3,800	0.23	3,263	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Barium	7440-39-3	12	12	0	100	ug/kg	--	--	39,800	85,400	0.28	68,960	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	12	2	10	17	ug/kg	3.0	3.3	17	41	0.59	27	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	12	2	10	17	ug/kg	6.0	6.6	14	43	0.72	28	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	12	2	10	17	ug/kg	3.9	4.3	18	52	0.69	33	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	12	2	10	17	ug/kg	3.7	4.1	15	18	0.13	9.4	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
128-K-2_Shallow	non-Rad	Beryllium	7440-41-7	12	12	0	100	ug/kg	--	--	360	570	0.12	519	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Boron	7440-42-8	12	6	6	50	ug/kg	890	950	890	3,400	0.43	1,928	95% KM (t) UCL	--
128-K-2_Shallow	non-Rad	Cadmium	7440-43-9	12	12	0	100	ug/kg	--	--	41	300	0.65	153	95% Adjusted Gamma UCL	--
128-K-2_Shallow	non-Rad	Chromium	7440-47-3	12	12	0	100	ug/kg	--	--	1,500	14,500	0.45	10,922	95% Student's-t UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	12	2	10	17	ug/kg	4.5	5.0	18	32	0.40	14	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
128-K-2_Shallow	non-Rad	Cobalt	7440-48-4	12	12	0	100	ug/kg	--	--	6,100	10,000	0.15	8,021	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Copper	7440-50-8	12	12	0	100	ug/kg	--	--	13,800	41,100	0.36	23,700	95% Modified-t UCL	--
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	12	1	11	8.3	ug/kg	10	11	16	16	0	16	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Dibenz(a,h)anthracene was not processed!
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	12	2	10	17	ug/kg	12	13	20	61	0.72	41	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	12	1	11	8.3	ug/kg	5.0	5.4	14	14	0	14	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Fluorene was not processed!
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	12	2	10	17	ug/kg	11	12	17	34	0.47	18	95% KM (t) UCL	Warning: One or more Recommended UCL(s) not available! Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL. Recommendations are based upon data size, data distribution, and skewness. These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
128-K-2_Shallow	non-Rad	Iron	7439-89-6	12	12	0	100	ug/kg	--	--	1.86E+07	2.38E+07	0.089	2.20E+07	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Lead	7439-92-1	12	12	0	100	ug/kg	--	--	2,000	23,300	1.0	9,642	95% H-UCL	--
128-K-2_Shallow	non-Rad	Manganese	7439-96-5	12	12	0	100	ug/kg	--	--	219,000	406,000	0.19	324,704	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	12	1	11	8.3	ug/kg	4.8	7.0	22	22	0	22	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Mercury was not processed!
128-K-2_Shallow	non-Rad	Molybdenum	7439-98-7	12	1	11	8.3	ug/kg	230	260	250	250	0	250	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Molybdenum was not processed!
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	12	1	11	8.3	ug/kg	11	12	16	16	0	16	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Naphthalene was not processed!
128-K-2_Shallow	non-Rad	Nickel	7440-02-0	12	12	0	100	ug/kg	--	--	5,300	14,800	0.29	11,030	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	12	2	10	17	ug/kg	11	12	22	63	0.68	42	95% KM (Chebyshev) UCL	Warning: Data set has only 2 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	12	5	7	42	ug/kg	780	870	830	1,300	0.19	973	95% KM (t) UCL	--
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	12	11	1	92	ug/kg	670	670	720	6,400	1.1	3,425	95% KM (Chebyshev) UCL	--
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	12	9	3	75	ug/kg	960	980	1,100	15,000	1.3	4,568	95% KM H-UCL	--
128-K-2_Shallow	non-Rad	Vanadium	7440-62-2	12	12	0	100	ug/kg	--	--	40,500	55,300	0.12	49,084	95% Student's-t UCL	--
128-K-2_Shallow	non-Rad	Zinc	7440-66-6	12	12	0	100	ug/kg	--	--	28,900	69,200	0.29	49,542	95% H-UCL	--
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	4	1	3	25	ug/kg	5.2	8.1	10	10	0	10	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	4	4	0	100	ug/kg	--	--	6.63E+06	9.26E+06	0.14	9.26E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	4	1	3	25	ug/kg	370	370	410	410	0	410	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	4	1	3	25	ug/kg	2.6	2.7	5.4	5.4	0	5.4	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	4	1	3	25	ug/kg	2.5	2.6	50	50	0	50	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	4	4	0	100	ug/kg	--	--	2,800	3,300	0.072	3,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Barium	7440-39-3	4	4	0	100	ug/kg	--	--	58,100	76,000	0.12	76,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	4	1	3	25	ug/kg	3.1	3.4	10	10	0	10	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	4	1	3	25	ug/kg	6.2	6.8	9.5	9.5	0	9.5	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	4	1	3	25	ug/kg	4.0	4.5	14	14	0	14	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	4	1	3	25	ug/kg	3.8	4.2	7.8	7.8	0	7.8	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	4	4	0	100	ug/kg	--	--	410	540	0.11	540	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Boron	7440-42-8	4	3	1	75	ug/kg	960	960	1,600	3,300	0.43	3,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	4	4	0	100	ug/kg	--	--	87	190	0.36	190	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	4	4	0	100	ug/kg	--	--	11,200	14,600	0.11	14,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	4	1	3	25	ug/kg	4.7	5.1	12	12	0	12	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	4	4	0	100	ug/kg	--	--	5,000	7,400	0.17	7,400	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	4	4	0	100	ug/kg	--	--	13,700	73,600	0.95	73,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	4	1	3	25	ug/kg	13	14	29	29	0	29	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Iron	7439-89-6	4	4	0	100	ug/kg	--	--	1.58E+07	2.11E+07	0.12	2.11E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Lead	7439-92-1	4	4	0	100	ug/kg	--	--	4,500	28,300	0.99	28,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	4	4	0	100	ug/kg	--	--	287,000	332,000	0.060	332,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	4	2	2	50	ug/kg	4.8	5.9	6.2	100	1.2	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	4	2	2	50	ug/kg	250	250	260	300	0.10	300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	4	4	0	100	ug/kg	--	--	10,700	14,300	0.12	14,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	4	1	3	25	ug/kg	12	13	18	18	0	18	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	4	1	3	25	ug/kg	840	840	1,100	1,100	0	1,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	4	4	0	100	ug/kg	--	--	1,000	560,000	2.0	560,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	4	4	0	100	ug/kg	--	--	2,500	1.20E+06	1.9	1.20E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	4	4	0	100	ug/kg	--	--	33,800	45,300	0.13	45,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	4	4	0	100	ug/kg	--	--	33,200	88,000	0.51	88,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	1	1	0	100	ug/kg	--	--	2,770	2,770	0	2,770	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
132-KE-1_Shallow	non-Rad	Barium	7440-39-3	1	1	0	100	ug/kg	--	--	60,800	60,800	0	60,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Beryllium	7440-41-7	1	1	0	100	ug/kg	--	--	301	301	0	301	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Cadmium	7440-43-9	1	1	0	100	ug/kg	--	--	77	77	0	77	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cadmium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Chromium	7440-47-3	1	1	0	100	ug/kg	--	--	6,770	6,770	0	6,770	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Cobalt	7440-48-4	1	1	0	100	ug/kg	--	--	9,270	9,270	0	9,270	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Copper	7440-50-8	1	1	0	100	ug/kg	--	--	16,500	16,500	0	16,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Lead	7439-92-1	1	1	0	100	ug/kg	--	--	5,340	5,340	0	5,340	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Lithium	7439-93-2	1	1	0	100	ug/kg	--	--	6,970	6,970	0	6,970	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lithium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Manganese	7439-96-5	1	1	0	100	ug/kg	--	--	308,000	308,000	0	308,000	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Molybdenum	7439-98-7	1	1	0	100	ug/kg	--	--	397	397	0	397	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Nickel	7440-02-0	1	1	0	100	ug/kg	--	--	8,340	8,340	0	8,340	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Selenium	7782-49-2	1	1	0	100	ug/kg	--	--	267	267	0	267	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	1	1	0	100	ug/kg	--	--	31,500	31,500	0	31,500	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	1	1	0	100	ug/kg	--	--	494	494	0	494	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Uranium	7440-61-1	1	1	0	100	ug/kg	--	--	467	467	0	467	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Vanadium	7440-62-2	1	1	0	100	ug/kg	--	--	56,900	56,900	0	56,900	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	non-Rad	Zinc	7440-66-6	1	1	0	100	ug/kg	--	--	44,800	44,800	0	44,800	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	1	1	0	100	pCi/g	--	--	0.040	0.040	0	0.040	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Americium-241 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	1	1	0	100	pCi/g	--	--	15	15	0	15	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Carbon-14 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Cesium-137	10045-97-3	1	1	0	100	pCi/g	--	--	0.42	0.42	0	0.42	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cesium-137 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	1	1	0	100	pCi/g	--	--	0.041	0.041	0	0.041	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Plutonium-239/240 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Uranium-233/234	U-233/234	1	1	0	100	pCi/g	--	--	0.15	0.15	0	0.15	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-233/234 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Uranium-235	15117-96-1	1	1	0	100	pCi/g	--	--	0.015	0.015	0	0.015	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-235 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
132-KE-1_Shallow	Rad	Uranium-238	U-238	1	1	0	100	pCi/g	--	--	0.14	0.14	0	0.14	Maximum Detect	Warning: This data set only has 1 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium-238 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	2	1	1	50	ug/kg	5.5	5.5	12	12	0	12	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Aroclor-1254 was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	2	2	0	100	ug/kg	--	--	3,190	3,490	0.064	3,490	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Arsenic was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
1607-K3_Shallow	non-Rad	Barium	7440-39-3	2	2	0	100	ug/kg	--	--	78,300	78,400	9.03E-04	78,400	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Barium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	2	2	0	100	ug/kg	--	--	202	384	0.44	384	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Beryllium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Boron	7440-42-8	2	2	0	100	ug/kg	--	--	1,220	1,630	0.20	1,630	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Boron was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	2	2	0	100	ug/kg	--	--	11,100	22,200	0.47	22,200	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Chromium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	2	2	0	100	ug/kg	--	--	11,100	12,300	0.073	12,300	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Cobalt was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Copper	7440-50-8	2	2	0	100	ug/kg	--	--	19,800	20,800	0.035	20,800	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Copper was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Lead	7439-92-1	2	2	0	100	ug/kg	--	--	5,720	23,100	0.85	23,100	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Lead was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Manganese	7439-96-5	2	2	0	100	ug/kg	--	--	389,000	440,000	0.087	440,000	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Manganese was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	2	1	1	50	ug/kg	49	49	59	59	0	59	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Mercury was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	2	2	0	100	ug/kg	--	--	475	550	0.10	550	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Molybdenum was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Nickel	7440-02-0	2	2	0	100	ug/kg	--	--	12,600	18,800	0.28	18,800	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nickel was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	2	2	0	100	ug/kg	--	--	5,440	8,590	0.32	8,590	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Nitrate was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	2	2	0	100	ug/kg	--	--	858	886	0.023	886	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Selenium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	2	2	0	100	ug/kg	--	--	34,600	35,500	0.018	35,500	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Strontium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Tin	7440-31-5	2	2	0	100	ug/kg	--	--	538	549	0.014	549	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Tin was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Uranium	7440-61-1	2	2	0	100	ug/kg	--	--	575	668	0.11	668	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Uranium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	2	2	0	100	ug/kg	--	--	73,200	74,600	0.013	74,600	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Vanadium was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	2	2	0	100	ug/kg	--	--	57,100	68,900	0.13	68,900	Maximum Detect	Warning: This data set only has 2 observations! Data set is too small to compute reliable and meaningful statistics and estimates! The data set for variable Zinc was not processed! It is suggested to collect at least 8 to 10 observations before using these statistical methods!
600-29_Shallow	non-Rad	Aluminum	7429-90-5	13	13	0	100	ug/kg	--	--	7.18E+06	1.10E+07	0.13	9.29E+06	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Antimony	7440-36-0	13	1	12	7.7	ug/kg	340	400	520	520	0	520	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Antimony was not processed!
600-29_Shallow	non-Rad	Arsenic	7440-38-2	13	13	0	100	ug/kg	--	--	3,700	20,500	0.67	10,358	95% Adjusted Gamma UCL	--
600-29_Shallow	non-Rad	Barium	7440-39-3	13	13	0	100	ug/kg	--	--	60,200	86,600	0.097	75,216	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	13	1	12	7.7	ug/kg	20	21	67	67	0	67	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Benzo(a)pyrene was not processed!
600-29_Shallow	non-Rad	Beryllium	7440-41-7	13	13	0	100	ug/kg	--	--	550	760	0.094	653	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	13	10	3	77	ug/kg	47	47	89	140	0.16	103	95% KM H-UCL	--
600-29_Shallow	non-Rad	Boron	7440-42-8	13	13	0	100	ug/kg	--	--	1,100	2,000	0.19	1,759	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Cadmium	7440-43-9	13	12	1	92	ug/kg	43	43	50	190	0.41	105	95% KM Student's t	--
600-29_Shallow	non-Rad	Chromium	7440-47-3	13	13	0	100	ug/kg	--	--	7,200	14,000	0.16	11,813	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Chrysene	218-01-9	13	1	12	7.7	ug/kg	27	28	46	46	0	46	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Chrysene was not processed!
600-29_Shallow	non-Rad	Cobalt	7440-48-4	13	13	0	100	ug/kg	--	--	6,200	10,500	0.15	8,224	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Copper	7440-50-8	13	13	0	100	ug/kg	--	--	13,400	45,200	0.44	26,238	95% Adjusted Gamma UCL	--
600-29_Shallow	non-Rad	Iron	7439-89-6	13	13	0	100	ug/kg	--	--	1.90E+07	2.57E+07	0.097	2.30E+07	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Lead	7439-92-1	13	13	0	100	ug/kg	--	--	4,300	10,700	0.29	6,752	95% Modified-t UCL	--
600-29_Shallow	non-Rad	Manganese	7439-96-5	13	13	0	100	ug/kg	--	--	280,000	365,000	0.086	348,791	95% Student's-t UCL	--
600-29_Shallow	non-Rad	Mercury	7439-97-6	13	3	10	23	ug/kg	4.8	7.3	8.0	73	1.2	22	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
600-29_Shallow	non-Rad	Molybdenum	7439-98-7	13	3	10	23	ug/kg	230	270	310	340	0.054	274	95% KM (t) UCL	Warning: Data set has only 3 Detected Values. This is not enough to compute meaningful or reliable statistics and estimates.
600-29_Shallow	non-Rad	Nickel	7440-02-0	13	13	0	100	ug/kg	--	--	9,500	75,300	1.1	37,462	95% Chebyshev (Mean, Sd) UCL	--

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
600-29_Shallow	non-Rad	Pyrene	129-00-0	13	1	12	7.7	ug/kg	12	13	87	87	0	87	Maximum Detect	Warning: Only one distinct data value was detected! ProUCL (or any other software) should not be used on such a data set! It is suggested to use alternative site specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Pyrene was not processed!
600-29_Shallow	non-Rad	Selenium	7782-49-2	13	6	7	46	ug/kg	770	870	870	1,300	0.19	985	95% KM (BCA) UCL	--
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	13	13	0	100	ug/kg	--	--	800	50,000	2.2	22,077	95% Chebyshev (Mean, Sd) UCL	--
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	13	13	0	100	ug/kg	--	--	1,100	71,000	2.2	31,433	95% Chebyshev (Mean, Sd) UCL	--
600-29_Shallow	non-Rad	Vanadium	7440-62-2	13	13	0	100	ug/kg	--	--	42,900	110,000	0.34	69,344	95% Modified-t UCL	--
600-29_Shallow	non-Rad	Zinc	7440-66-6	13	13	0	100	ug/kg	--	--	41,200	77,800	0.20	53,782	95% Modified-t UCL	--
600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	5	5	0	100	ug/kg	--	--	6.84E+06	9.83E+06	0.16	9.83E+06	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	5	1	4	20	ug/kg	360	390	450	450	0	450	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	5	5	0	100	ug/kg	--	--	3,300	6,800	0.30	6,800	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	5	5	0	100	ug/kg	--	--	60,900	68,500	0.047	68,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	5	1	4	20	ug/kg	20	20	72	72	0	72	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	5	2	3	40	ug/kg	20	20	66	120	0.41	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	5	2	3	40	ug/kg	26	27	100	210	0.50	210	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	5	5	0	100	ug/kg	--	--	510	620	0.084	620	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	5	5	0	100	ug/kg	--	--	90	120	0.11	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	5	5	0	100	ug/kg	--	--	1,200	2,000	0.20	2,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	5	5	0	100	ug/kg	--	--	57	160	0.40	160	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	5	5	0	100	ug/kg	--	--	7,600	12,600	0.20	12,600	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	5	1	4	20	ug/kg	27	27	90	90	0	90	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	5	5	0	100	ug/kg	--	--	6,500	7,900	0.079	7,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	5	5	0	100	ug/kg	--	--	13,900	28,900	0.32	28,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	5	1	4	20	ug/kg	29	29	240	240	0	240	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	5	1	4	20	ug/kg	36	37	100	100	0	100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	5	2	3	40	ug/kg	22	22	56	96	0.37	96	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	5	5	0	100	ug/kg	--	--	1.94E+07	2.43E+07	0.085	2.43E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	5	5	0	100	ug/kg	--	--	4,300	21,700	0.87	21,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	5	5	0	100	ug/kg	--	--	264,000	347,000	0.10	347,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	5	2	3	40	ug/kg	5.6	6.5	15	16	0.046	16	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	5	2	3	40	ug/kg	250	270	270	290	0.051	290	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	5	5	0	100	ug/kg	--	--	8,500	13,300	0.18	13,300	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	5	1	4	20	ug/kg	12	12	96	96	0	96	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	5	1	4	20	ug/kg	820	880	940	940	0	940	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	5	1	4	20	ug/kg	150	160	180	180	0	180	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Waste Site Decision Unit	Analyte Group	Analyte	CAS No.	Total Samples	Total Detects	Total Non-Detects	Frequency of Detection (%)	Units	Minimum Detection Limit	Maximum Detection Limit	Minimum Detected Result	Maximum Detected Result	Coefficient of Variation	Exposure Point Concentration	Exposure Point Concentration Basis	Comment
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	5	5	0	100	ug/kg	--	--	1,000	20,000	0.90	20,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	5	5	0	100	ug/kg	--	--	1,900	39,000	0.77	39,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	5	5	0	100	ug/kg	--	--	43,600	56,200	0.11	56,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	5	5	0	100	ug/kg	--	--	44,000	67,700	0.18	67,700	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.

Table A-2. Summary of Risk Based Screening Levels for the 100-K Source OU

Analyte	90th Percentile Background	Method A Soil Cleanup Level	Residential RBSL	Method B Direct Contact Soil Cleanup Level (carcinogen)	Method B Direct Contact Soil Cleanup Level (noncarcinogen)	Method B Inhalation Soil Cleanup Level (carcinogen)	Method B Inhalation Soil Cleanup Level (noncarcinogen)	Casual User RBSL (carcinogen)	Casual User RBSL (noncarcinogen)
Radionuclides (pCi/g)									
Americium-241	--	--	153	--	--	--	--	2,770	--
Carbon-14	--	--	81	--	--	--	--	330,000	--
Cesium-137	1.1	--	4.4	--	--	--	--	98	--
Cobalt-60	0.0084	--	3.1	--	--	--	--	57	--
Europium-152	--	--	3.6	--	--	--	--	64	--
Europium-154	0.033	--	4.5	--	--	--	--	80	--
Europium-155	0.054	--	335	--	--	--	--	5,870	--
Nickel-63	--	--	594	--	--	--	--	600,000	--
Plutonium-238	0.0038	--	236	--	--	--	--	4,610	--
Plutonium-239/240	0.025	--	203	--	--	--	--	4,040	--
Total beta radiostrontium	0.18	--	2.3	--	--	--	--	5,280	--
Tritium	--		624	--	--	--	--	1,020	--
Uranium-233/234	1.1	--	133	--	--	--	--	6,200	--
Uranium-235	0.11	--	15	--	--	--	--	301	--
Uranium-238	1.1	--	52	--	--	--	--	1,070	--
Nonradionuclides (µg/kg)									
Metals									
Aluminum	1.18E+07	--	--	--	8.00E+07	--	1.67E+11	--	9.12E+08
Antimony	130	--	--	--	32,000	--	--	--	365,000
Arsenic	20,000	20,000	--	667	24,000	4.24E+07	5.00E+08	4,990	256,000
Barium	132,000	--	--	--	1.60E+07	--	1.67E+10	--	1.82E+08
Beryllium	1,510	--	--	--	160,000	7.60E+07	6.67E+08	3.98E+09	1.82E+06
Boron	3,890	--	--	--	1.60E+07	--	6.67E+11	--	1.82E+08
Cadmium	563	--	--	--	80,000	6.38E+13	3.33E+08	5.31E+09	833,000
Chromium	18,500	--	--	--	1.20E+08	--	--	--	1.37E+09
Cobalt	15,700	--	--	--	24,000	2.03E+07	2.00E+08	1.06E+09	274,000
Copper	22,000	--	--	--	3.20E+06	--	--	--	3.65E+07
Hexavalent Chromium	--	--	--	--	240,000	2.17E+06	3.33E+09	4.11E+07	2.74E+06
Iron	3.26E+07	--	--	--	5.60E+07	--	--	--	6.39E+08
Lead	10,200	250,000	--	--	--	--	--	--	--
Lithium	13,300	--	--	--	160,000	--	--	--	1.83E+06
Manganese	512,000	--	--	--	1.12E+07	--	1.67E+09	--	1.28E+08
Mercury	13	--	--	--	24,000	--	1.00E+10	--	274,000
Molybdenum	470	--	--	--	400,000	--	--	--	4.56E+06
Nickel	19,100	--	--	--	1.60E+06	7.01E+08	3.00E+09	3.68E+10	1.82E+07
Selenium	780	--	--	--	400,000	--	6.67E+11	--	4.56E+06
Silver	167	--	--	--	400,000	--	--	--	4.56E+06
Strontium	--	--	--	--	4.80E+07	--	--	--	5.48E+08
Thallium	185	--	--	--	800	--	--	--	9,130
Tin	--	--	--	--	4.80E+07	--	--	--	5.48E+08
Uranium	3,200	--	--	--	240,000	--	1.33E+09	--	2.74E+06

Table A-2. Summary of Risk Based Screening Levels for the 100-K Source OU

Analyte	90th Percentile Background	Method A Soil Cleanup Level	Residential RBSL	Method B Direct Contact Soil Cleanup Level (carcinogen)	Method B Direct Contact Soil Cleanup Level (noncarcinogen)	Method B Inhalation Soil Cleanup Level (carcinogen)	Method B Inhalation Soil Cleanup Level (noncarcinogen)	Casual User RBSL (carcinogen)	Casual User RBSL (noncarcinogen)
Vanadium	85,100	--	--	--	400,000	--	3.33E+09	--	4.56E+06
Zinc	67,800	--	--	--	2.40E+07	--	--	--	2.74E+08
Anions									
Fluoride	2,810		--	--	4.80E+06	--	4.34E+11	--	5.47E+07
Nitrate	52,000		--	--	5.68E+08	--	--	--	6.48E+09
Nitrite	--		--	--	2.40E+07	--	--	--	2.74E+08
Polycyclic Aromatic Hydrocarbons									
Acenaphthene	--	--	--	--	4.80E+06	--	--	--	4.18E+07
Anthracene	--	--	--	--	2.40E+07	--	--	--	2.09E+08
Benzo(a)anthracene	--	--	--	10,000	--	3.04E+09	--	13,400	--
Benzo(a)pyrene	--	--	--	1,000	24,000	3.04E+08	6.67E+07	1,340	209,000
Benzo(b)fluoranthene	--	--	--	10,000	--	3.04E+09	--	13,400	--
Benzo(k)fluoranthene	--	--	--	100,000	--	3.04E+10	--	134,000	--
Chrysene	--	--	--	1.00E+06	--	3.04E+11	--	1.34E+06	--
Dibenz[a,h]anthracene	--	--	--	1,000	--	3.04E+08	--	1,340	--
Fluoranthene	--	--	--	--	3.20E+06	--	--	--	2.79E+07
Fluorene	--	--	--	--	3.20E+06	--	--	--	2.79E+07
Indeno(1,2,3-cd)pyrene	--	--	--	10,000	--	3.04E+09	--	13,400	--
Naphthalene	--	--	--	--	1.60E+06	1,358	25,320	71,100	2.26E+06
Pyrene	--	--	--	--	2.40E+06	--	--	--	2.09E+07
Polychlorinated Biphenyls									
Aroclor-1016	--	--	--	14,300	5,600	9.12E+09	--	83,100	47,900
Aroclor-1254	--	--	--	500	1,600	3.20E+08	--	2,910	13,700
Aroclor-1260	--	--	--	500	--	3.20E+08	--	2,910	--
Total Petroleum Hydrocarbons									
Total petroleum hydrocarbons	--	1.00E+06	--	--	--	--	--	--	--
Total petroleum hydrocarbons - diesel range	--	2.00E+06	--	--	--	--	--	--	--
Total petroleum hydrocarbons - diesel range extended to C36	--	2.00E+06	--	--	--	--	--	--	--
Total petroleum hydrocarbons - motor oil (high boiling)	--	2.00E+06	--	--	--	--	--	--	--
Volatile Organics Compounds									
Acetone	--	--	--	--	7.20E+07	--	1.94E+08	--	7.90E+08
Ethylene glycol	--	--	--	--	1.60E+08	--	2.36E+07	--	9.30E+08
Methylene chloride	--	--	--	500,000	480,000	528,314	579,636	820,000	5.03E+06
Semivolatile Organics Compounds									
Bis(2-ethylhexyl) phthalate	--	--	--	71,400	1.60E+06	7.60E+10	--	452,000	1.47E+07
Di-n-butylphthalate	--	--	--	--	8.00E+06	--	--	--	7.37E+07

Note:

-- = Not Applicable

Table A-3. Hanford Site Background Values

Analyte Name	Analyte Class	Units	Lognormal 90th Percentile Background Value	Maximum Background Value	Reference
Ammonia	ANIONS	ug/kg	9,230	26,400	DOE/RL-92-24, V.1, Rev.4
Chloride	ANIONS	ug/kg	100,000	1.48E+06	DOE/RL-92-24, V.1, Rev.4
Fluoride	ANIONS	ug/kg	2,810	73,300	DOE/RL-92-24, V.1, Rev.4
Nitrate	ANIONS	ug/kg	52,000	906,000	DOE/RL-92-24, V.1, Rev.4
Phosphate	ANIONS	ug/kg	785	225,000	DOE/RL-92-24, V.1, Rev.4
Sulfate	ANIONS	ug/kg	237,000	1.26E+07	DOE/RL-92-24, V.1, Rev.4
Aluminum	METAL	ug/kg	1.18E+07	2.88E+07	DOE/RL-92-24, V.1, Rev.4
Antimony	METAL	ug/kg	130	385	ECF-HANFORD-11-0038
Arsenic	METAL	ug/kg	20,000	27,700	Ecology letter dated 06.11.2013 (90th %-ile) DOE/RL-92-24, V.1, Rev.4 (max)
Barium	METAL	ug/kg	132,000	480,000	DOE/RL-92-24, V.1, Rev.4
Beryllium	METAL	ug/kg	1,510	10,000	DOE/RL-92-24, V.1, Rev.4
Boron	METAL	ug/kg	3,890	5,860	ECF-HANFORD-11-0038
Cadmium	METAL	ug/kg	563	2,980	ECF-HANFORD-11-0038
Calcium	METAL	ug/kg	1.72E+07	1.05E+08	DOE/RL-92-24, V.1, Rev.4
Chromium	METAL	ug/kg	18,500	320,000	DOE/RL-92-24, V.1, Rev.4
Cobalt	METAL	ug/kg	15,700	110,000	DOE/RL-92-24, V.1, Rev.4
Copper	METAL	ug/kg	22,000	61,000	DOE/RL-92-24, V.1, Rev.4
Iron	METAL	ug/kg	3.26E+07	6.81E+07	DOE/RL-92-24, V.1, Rev.4
Lead	METAL	ug/kg	10,200	74,100	DOE/RL-92-24, V.1, Rev.4
Lithium	METAL	ug/kg	13,300	19,200	ECF-HANFORD-11-0038
Magnesium	METAL	ug/kg	7.06E+06	3.23E+07	DOE/RL-92-24, V.1, Rev.4
Manganese	METAL	ug/kg	512,000	1.11E+06	DOE/RL-92-24, V.1, Rev.4
Mercury	METAL	ug/kg	13	29	ECF-HANFORD-11-0038
Molybdenum	METAL	ug/kg	470	3,170	ECF-HANFORD-11-0038
Nickel	METAL	ug/kg	19,100	200,000	DOE/RL-92-24, V.1, Rev.4
Potassium	METAL	ug/kg	2.15E+06	7.90E+06	DOE/RL-92-24, V.1, Rev.4
Selenium	METAL	ug/kg	780	840	ECF-HANFORD-11-0038
Silver	METAL	ug/kg	167	273	ECF-HANFORD-11-0038
Sodium	METAL	ug/kg	690,000	6.06E+06	DOE/RL-92-24, V.1, Rev.4
Thallium	METAL	ug/kg	185	523	ECF-HANFORD-11-0038
Uranium	METAL	ug/kg	3,210	4,042	Isotopic Activity Conversion based on DOE/RL-96-12 values
Vanadium	METAL	ug/kg	85,100	140,000	DOE/RL-92-24, V.1, Rev.4
Zinc	METAL	ug/kg	67,800	366,000	DOE/RL-92-24, V.1, Rev.4
Cesium-137	RAD	pCi/g	1.1	1.6	DOE/RL-96-12, Rev.0
Cobalt-60	RAD	pCi/g	0.0084	0.039	DOE/RL-96-12, Rev.0
Europium-154	RAD	pCi/g	0.033	0.079	DOE/RL-96-12, Rev.0
Europium-155	RAD	pCi/g	0.054	0.098	DOE/RL-96-12, Rev.0
Gross beta	RAD	pCi/g	23	25	DOE/RL-96-12, Rev.0
Plutonium-238	RAD	pCi/g	0.0038	0.019	DOE/RL-96-12, Rev.0
Plutonium-239/240	RAD	pCi/g	0.025	0.033	DOE/RL-96-12, Rev.0
Potassium-40	RAD	pCi/g	17	20	DOE/RL-96-12, Rev.0
Radium-226	RAD	pCi/g	0.82	1.2	DOE/RL-96-12, Rev.0
Radium-228	RAD	pCi/g	1.8	2.3	DOE/RL-96-12, Rev.0
Strontium-90	RAD	pCi/g	0.18	0.37	DOE/RL-96-12, Rev.0
Thorium-228	RAD	pCi/g	1.4	1.6	DOE/RL-96-12, Rev.0
Thorium-232	RAD	pCi/g	1.3	1.6	DOE/RL-96-12, Rev.0
Total beta radiostrontium	RAD	pCi/g	0.18	0.37	DOE/RL-96-12, Rev.0
Uranium-233/234	RAD	pCi/g	1.10	1.5	DOE/RL-96-12, Rev.0
Uranium-234	RAD	pCi/g	1.10	1.5	DOE/RL-96-12, Rev.0
Uranium-235	RAD	pCi/g	0.109	0.39	DOE/RL-96-12, Rev.0
Uranium-238	RAD	pCi/g	1.06	1.2	DOE/RL-96-12, Rev.0

Appendix B

Results of Human Health Evaluations for the 100-K Source Operable Units

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	595	1.30E+02	Yes	3.85E+02	Yes
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,654	2.00E+04	No	2.77E+04	No
100-K-102_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	71,680	1.32E+05	No	4.80E+05	No
100-K-102_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	346	1.51E+03	No	1.00E+04	No
100-K-102_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,027	3.89E+03	No	5.86E+03	No
100-K-102_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	123	5.63E+02	No	2.98E+03	No
100-K-102_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,143	1.85E+04	No	3.20E+05	No
100-K-102_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	11,613	1.57E+04	No	1.10E+05	No
100-K-102_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	18,990	2.20E+04	No	6.10E+04	No
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	--	--	--	--
100-K-102_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	8,047	1.02E+04	No	7.41E+04	No
100-K-102_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	396,776	5.12E+05	No	1.11E+06	No
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5,086	1.31E+01	Yes	2.92E+01	Yes
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	593	4.70E+02	Yes	3.17E+03	No
100-K-102_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,594	1.91E+04	No	2.00E+05	No
100-K-102_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	8,930	5.20E+04	No	9.06E+05	No
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,722	7.80E+02	Yes	8.40E+02	Yes
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	32,455	--	--	--	--
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	689	--	--	--	--
100-K-102_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	588	3.21E+03	No	4.04E+03	No
100-K-102_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	81,574	8.51E+04	No	1.40E+05	No
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	117,913	6.78E+04	Yes	3.66E+05	No
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	445	1.30E+02	Yes	3.85E+02	Yes
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,032	2.00E+04	No	2.77E+04	No
100-K-102_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	62,641	1.32E+05	No	4.80E+05	No
100-K-102_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	311	1.51E+03	No	1.00E+04	No
100-K-102_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,082	3.89E+03	No	5.86E+03	No
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	962	5.63E+02	Yes	2.98E+03	No
100-K-102_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6,303	1.85E+04	No	3.20E+05	No
100-K-102_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,123	1.57E+04	No	1.10E+05	No
100-K-102_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17,143	2.20E+04	No	6.10E+04	No
100-K-102_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7,073	1.02E+04	No	7.41E+04	No
100-K-102_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	324,038	5.12E+05	No	1.11E+06	No
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,211	1.31E+01	Yes	2.92E+01	Yes
100-K-102_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	446	4.70E+02	No	3.17E+03	No
100-K-102_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9,336	1.91E+04	No	2.00E+05	No
100-K-102_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	10,405	5.20E+04	No	9.06E+05	No
100-K-102_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	331	7.80E+02	No	8.40E+02	No
100-K-102_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	31	1.67E+02	No	2.73E+02	No
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	29,284	--	--	--	--
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	478	--	--	--	--
100-K-102_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	699	3.21E+03	No	4.04E+03	No
100-K-102_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	47,497	8.51E+04	No	1.40E+05	No
100-K-102_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	42,202	6.78E+04	No	3.66E+05	No
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	463	1.30E+02	Yes	3.85E+02	Yes
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,510	2.00E+04	No	2.77E+04	No
100-K-102_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,200	1.32E+05	No	4.80E+05	No
100-K-102_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	440	1.51E+03	No	1.00E+04	No
100-K-102_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3.89E+03	No	5.86E+03	No
100-K-102_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	183	5.63E+02	No	2.98E+03	No
100-K-102_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	1.85E+04	No	3.20E+05	No
100-K-102_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	13,800	1.57E+04	No	1.10E+05	No
100-K-102_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,000	2.20E+04	No	6.10E+04	No
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4,610	2.81E+03	Yes	7.33E+04	No
100-K-102_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,040	1.02E+04	No	7.41E+04	No
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	648,000	5.12E+05	Yes	1.11E+06	No
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	820	4.70E+02	Yes	3.17E+03	No
100-K-102_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,400	1.91E+04	No	2.00E+05	No
100-K-102_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	7,700	5.20E+04	No	9.06E+05	No
100-K-102_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	654	7.80E+02	No	8.40E+02	No
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	38,200	--	--	--	--
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	716	--	--	--	--
100-K-102_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	676	3.21E+03	No	4.04E+03	No
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	86,700	8.51E+04	Yes	1.40E+05	No
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,400	6.78E+04	Yes	3.66E+05	No
100-K-105_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	7.80E+06	1.18E+07	No	2.88E+07	No
100-K-105_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	130	1.30E+02	No	3.85E+02	No
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	2.00E+04	No	2.77E+04	No
100-K-105_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,000	1.32E+05	No	4.80E+05	No
100-K-105_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	340	1.51E+03	No	1.00E+04	No
100-K-105_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	87	5.63E+02	No	2.98E+03	No
100-K-105_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,900	1.85E+04	No	3.20E+05	No
100-K-105_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	1.57E+04	No	1.10E+05	No
100-K-105_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14,000	2.20E+04	No	6.10E+04	No
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	290	--	--	--	--
100-K-105_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No	6.81E+07	No
100-K-105_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,600	1.02E+04	No	7.41E+04	No
100-K-105_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	320,000	5.12E+05	No	1.11E+06	No
100-K-105_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	310	4.70E+02	No	3.17E+03	No
100-K-105_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9,500	1.91E+04	No	2.00E+05	No
100-K-105_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	5,750	5.20E+04	No	9.06E+05	No
100-K-105_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	500	7.80E+02	No	8.40E+02	No
100-K-105_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	21	1.67E+02	No	2.73E+02	No
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	26,000	--	--	--	--
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	660	--	--	--	--
100-K-105_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	360	3.21E+03	No	4.04E+03	No
100-K-105_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	46,000	8.51E+04	No	1.40E+05	No
100-K-105_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,000	6.78E+04	No	3.66E+05	No
100-K-105_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	0.17	1.78E-01	No	3.66E-01	No
100-K-105_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	1.18E+07	No	2.88E+07	No
100-K-105_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	96	1.30E+02	No	3.85E+02	No
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,200	2.00E+04	No	2.77E+04	No
100-K-105_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	52,000	1.32E+05	No	4.80E+05	No
100-K-105_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	270	1.51E+03	No	1.00E+04	No
100-K-105_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	55	5.63E+02	No	2.98E+03	No
100-K-105_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	7,300	1.85E+04	No	3.20E+05	No
100-K-105_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,200	1.57E+04	No	1.10E+05	No
100-K-105_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	12,000	2.20E+04	No	6.10E+04	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	--	--	--	--
100-K-105_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No	6.81E+07	No
100-K-105_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,700	1.02E+04	No	7.41E+04	No
100-K-105_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	270,000	5.12E+05	No	1.11E+06	No
100-K-105_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	300	4.70E+02	No	3.17E+03	No
100-K-105_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8,200	1.91E+04	No	2.00E+05	No
100-K-105_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	510	7.80E+02	No	8.40E+02	No
100-K-105_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	18	1.67E+02	No	2.73E+02	No
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	23,000	--	--	--	--
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	570	--	--	--	--
100-K-105_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	320	3.21E+03	No	4.04E+03	No
100-K-105_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	47,000	8.51E+04	No	1.40E+05	No
100-K-105_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	41,000	6.78E+04	No	3.66E+05	No
100-K-105_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	1.18E+07	No	2.88E+07	No
100-K-105_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	120	1.30E+02	No	3.85E+02	No
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	2.00E+04	No	2.77E+04	No
100-K-105_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	60,000	1.32E+05	No	4.80E+05	No
100-K-105_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	310	1.51E+03	No	1.00E+04	No
100-K-105_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	50	5.63E+02	No	2.98E+03	No
100-K-105_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,200	1.85E+04	No	3.20E+05	No
100-K-105_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	1.57E+04	No	1.10E+05	No
100-K-105_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,000	2.20E+04	No	6.10E+04	No
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	160	--	--	--	--
100-K-105_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No	6.81E+07	No
100-K-105_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,300	1.02E+04	No	7.41E+04	No
100-K-105_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	300,000	5.12E+05	No	1.11E+06	No
100-K-105_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	8.8	1.31E+01	No	2.92E+01	No
100-K-105_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	290	4.70E+02	No	3.17E+03	No
100-K-105_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10,000	1.91E+04	No	2.00E+05	No
100-K-105_Shallow_3	non-Rad	Selenium	7782-49-2	ug/kg	540	7.80E+02	No	8.40E+02	No
100-K-105_Shallow_3	non-Rad	Silver	7440-22-4	ug/kg	25	1.67E+02	No	2.73E+02	No
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	ug/kg	29,000	--	--	--	--
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	ug/kg	590	--	--	--	--
100-K-105_Shallow_3	non-Rad	Uranium	7440-61-1	ug/kg	930	3.21E+03	No	4.04E+03	No
100-K-105_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	8.51E+04	No	1.40E+05	No
100-K-105_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	54,000	6.78E+04	No	3.66E+05	No
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,570	2.00E+04	No	2.77E+04	No
100-K-106_Overburden_1	non-Rad	Barium	7440-39-3	ug/kg	61,500	1.32E+05	No	4.80E+05	No
100-K-106_Overburden_1	non-Rad	Beryllium	7440-41-7	ug/kg	159	1.51E+03	No	1.00E+04	No
100-K-106_Overburden_1	non-Rad	Cadmium	7440-43-9	ug/kg	70	5.63E+02	No	2.98E+03	No
100-K-106_Overburden_1	non-Rad	Chromium	7440-47-3	ug/kg	6,450	1.85E+04	No	3.20E+05	No
100-K-106_Overburden_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,060	1.57E+04	No	1.10E+05	No
100-K-106_Overburden_1	non-Rad	Copper	7440-50-8	ug/kg	14,800	2.20E+04	No	6.10E+04	No
100-K-106_Overburden_1	non-Rad	Lead	7439-92-1	ug/kg	5,110	1.02E+04	No	7.41E+04	No
100-K-106_Overburden_1	non-Rad	Manganese	7439-96-5	ug/kg	315,000	5.12E+05	No	1.11E+06	No
100-K-106_Overburden_1	non-Rad	Molybdenum	7439-98-7	ug/kg	431	4.70E+02	No	3.17E+03	No
100-K-106_Overburden_1	non-Rad	Nickel	7440-02-0	ug/kg	9,020	1.91E+04	No	2.00E+05	No
100-K-106_Overburden_1	non-Rad	Nitrate	14797-55-8	ug/kg	5,580	5.20E+04	No	9.06E+05	No
100-K-106_Overburden_1	non-Rad	Silver	7440-22-4	ug/kg	33	1.67E+02	No	2.73E+02	No
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	ug/kg	30,800	--	--	--	--
100-K-106_Overburden_1	non-Rad	Thallium	7440-28-0	ug/kg	115	1.85E+02	No	5.23E+02	No
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	ug/kg	410	--	--	--	--
100-K-106_Overburden_1	non-Rad	Uranium	7440-61-1	ug/kg	502	3.21E+03	No	4.04E+03	No
100-K-106_Overburden_1	non-Rad	Vanadium	7440-62-2	ug/kg	46,800	8.51E+04	No	1.40E+05	No
100-K-106_Overburden_1	non-Rad	Zinc	7440-66-6	ug/kg	41,800	6.78E+04	No	3.66E+05	No
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,220	2.00E+04	No	2.77E+04	No
100-K-106_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	59,100	1.32E+05	No	4.80E+05	No
100-K-106_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	360	1.51E+03	No	1.00E+04	No
100-K-106_Overburden_2	non-Rad	Cadmium	7440-43-9	ug/kg	71	5.63E+02	No	2.98E+03	No
100-K-106_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	17,300	1.85E+04	No	3.20E+05	No
100-K-106_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,230	1.57E+04	No	1.10E+05	No
100-K-106_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	15,800	2.20E+04	No	6.10E+04	No
100-K-106_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	6,010	1.02E+04	No	7.41E+04	No
100-K-106_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	303,000	5.12E+05	No	1.11E+06	No
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	ug/kg	497	4.70E+02	Yes	3.17E+03	No
100-K-106_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	13,200	1.91E+04	No	2.00E+05	No
100-K-106_Overburden_2	non-Rad	Nitrate	14797-55-8	ug/kg	10,000	5.20E+04	No	9.06E+05	No
100-K-106_Overburden_2	non-Rad	Selenium	7782-49-2	ug/kg	252	7.80E+02	No	8.40E+02	No
100-K-106_Overburden_2	non-Rad	Silver	7440-22-4	ug/kg	35	1.67E+02	No	2.73E+02	No
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	ug/kg	30,200	--	--	--	--
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	ug/kg	534	--	--	--	--
100-K-106_Overburden_2	non-Rad	Uranium	7440-61-1	ug/kg	460	3.21E+03	No	4.04E+03	No
100-K-106_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	52,400	8.51E+04	No	1.40E+05	No
100-K-106_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	47,900	6.78E+04	No	3.66E+05	No
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,460	2.00E+04	No	2.77E+04	No
100-K-106_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	60,400	1.32E+05	No	4.80E+05	No
100-K-106_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	257	1.51E+03	No	1.00E+04	No
100-K-106_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	74	5.63E+02	No	2.98E+03	No
100-K-106_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	5,970	1.85E+04	No	3.20E+05	No
100-K-106_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,160	1.57E+04	No	1.10E+05	No
100-K-106_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	15,400	2.20E+04	No	6.10E+04	No
100-K-106_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	5,050	1.02E+04	No	7.41E+04	No
100-K-106_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	288,000	5.12E+05	No	1.11E+06	No
100-K-106_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	334	4.70E+02	No	3.17E+03	No
100-K-106_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	7,750	1.91E+04	No	2.00E+05	No
100-K-106_Overburden_3	non-Rad	Nitrate	14797-55-8	ug/kg	10,800	5.20E+04	No	9.06E+05	No
100-K-106_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	35	1.67E+02	No	2.73E+02	No
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	ug/kg	29,600	--	--	--	--
100-K-106_Overburden_3	non-Rad	Thallium	7440-28-0	ug/kg	80	1.85E+02	No	5.23E+02	No
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	ug/kg	391	--	--	--	--
100-K-106_Overburden_3	non-Rad	Uranium	7440-61-1	ug/kg	673	3.21E+03	No	4.04E+03	No
100-K-106_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	8.51E+04	No	1.40E+05	No
100-K-106_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	41,500	6.78E+04	No	3.66E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,170	2.00E+04	No	2.77E+04	No
100-K-106_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	58,400	1.32E+05	No	4.80E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	310	1.51E+03	No	1.00E+04	No
100-K-106_Overburden_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	71	5.63E+02	No	2.98E+03	No
100-K-106_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5,990	1.85E+04	No	3.20E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-106_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,370	1.57E+04	No	1.10E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,600	2.20E+04	No	6.10E+04	No
100-K-106_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	7,020	1.02E+04	No	7.41E+04	No
100-K-106_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	312,000	5.12E+05	No	1.11E+06	No
100-K-106_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	398	4.70E+02	No	3.17E+03	No
100-K-106_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	8,290	1.91E+04	No	2.00E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6,820	5.20E+04	No	9.06E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	27	1.67E+02	No	2.73E+02	No
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	29,400	--	--	--	--
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	421	--	--	--	--
100-K-106_Overburden_Focused_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	43,000	--	--	--	--
100-K-106_Overburden_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	740	3.21E+03	No	4.04E+03	No
100-K-106_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	54,000	8.51E+04	No	1.40E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55,000	6.78E+04	No	3.66E+05	No
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	992	2.00E+04	No	2.77E+04	No
100-K-106_Shallow	non-Rad	Barium	7440-39-3	ug/kg	42,600	1.32E+05	No	4.80E+05	No
100-K-106_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	210	1.51E+03	No	1.00E+04	No
100-K-106_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	37	5.63E+02	No	2.98E+03	No
100-K-106_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2,790	1.85E+04	No	3.20E+05	No
100-K-106_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,380	1.57E+04	No	1.10E+05	No
100-K-106_Shallow	non-Rad	Copper	7440-50-8	ug/kg	11,200	2.20E+04	No	6.10E+04	No
100-K-106_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,990	1.02E+04	No	7.41E+04	No
100-K-106_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	203,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	228	4.70E+02	No	3.17E+03	No
100-K-106_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5,250	1.91E+04	No	2.00E+05	No
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	20,500	--	--	--	--
100-K-106_Shallow	non-Rad	Tin	7440-31-5	ug/kg	332	--	--	--	--
100-K-106_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	292	3.21E+03	No	4.04E+03	No
100-K-106_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	33,000	8.51E+04	No	1.40E+05	No
100-K-106_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	33,200	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,320	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	55,600	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	211	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	59	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	4,510	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,240	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,100	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,410	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	250,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	265	4.70E+02	No	3.17E+03	No
100-K-106_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6,170	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	13,100	5.20E+04	No	9.06E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	21,900	--	--	--	--
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	370	--	--	--	--
100-K-106_Shallow_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	367	3.21E+03	No	4.04E+03	No
100-K-106_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	34,600	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1,480	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	58,800	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	231	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	52	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5,370	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	10,200	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	14,000	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	2,450	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	399,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	490	4.70E+02	Yes	3.17E+03	No
100-K-106_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	7,310	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6,150	5.20E+04	No	9.06E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	20,100	--	--	--	--
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	478	--	--	--	--
100-K-106_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,500	--	--	--	--
100-K-106_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	386	3.21E+03	No	4.04E+03	No
100-K-106_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,300	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	40,500	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	1,750	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	59,800	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	341	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	70	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	5,710	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,780	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	16,900	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	3,340	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	326,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	499	4.70E+02	Yes	3.17E+03	No
100-K-106_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	7,950	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Nitrate	14797-55-8	ug/kg	20,900	5.20E+04	No	9.06E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	34	1.67E+02	No	2.73E+02	No
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	25,300	--	--	--	--
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	547	--	--	--	--
100-K-106_Shallow_Focused_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	46,000	--	--	--	--
100-K-106_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	470	3.21E+03	No	4.04E+03	No
100-K-106_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	54,800	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	43,800	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1,010	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	49,000	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	187	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	52	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2,280	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,950	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	14,300	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	1,830	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	262,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	303	4.70E+02	No	3.17E+03	No
100-K-106_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5,250	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	18,900	--	--	--	--
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	402	--	--	--	--
100-K-106_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	356	3.21E+03	No	4.04E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-106_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	40,700	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	35,000	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,730	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	53,300	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	319	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	52	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3,680	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	8,960	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	15,000	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_5	non-Rad	Lead	7439-92-1	ug/kg	2,760	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	261,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	372	4.70E+02	No	3.17E+03	No
100-K-106_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	7,110	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Selenium	7782-49-2	ug/kg	275	7.80E+02	No	8.40E+02	No
100-K-106_Shallow_Focused_5	non-Rad	Silver	7440-22-4	ug/kg	33	1.67E+02	No	2.73E+02	No
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	ug/kg	29,800	--	--	--	--
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	ug/kg	481	--	--	--	--
100-K-106_Shallow_Focused_5	non-Rad	Uranium	7440-61-1	ug/kg	488	3.21E+03	No	4.04E+03	No
100-K-106_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	58,000	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	39,800	6.78E+04	No	3.66E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No	2.77E+04	No
100-K-106_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	57,200	1.32E+05	No	4.80E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	329	1.51E+03	No	1.00E+04	No
100-K-106_Shallow_Focused_6	non-Rad	Cadmium	7440-43-9	ug/kg	41	5.63E+02	No	2.98E+03	No
100-K-106_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	6,070	1.85E+04	No	3.20E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	9,640	1.57E+04	No	1.10E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	16,200	2.20E+04	No	6.10E+04	No
100-K-106_Shallow_Focused_6	non-Rad	Lead	7439-92-1	ug/kg	3,380	1.02E+04	No	7.41E+04	No
100-K-106_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	330,000	5.12E+05	No	1.11E+06	No
100-K-106_Shallow_Focused_6	non-Rad	Molybdenum	7439-98-7	ug/kg	298	4.70E+02	No	3.17E+03	No
100-K-106_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	9,740	1.91E+04	No	2.00E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Nitrate	14797-55-8	ug/kg	10,400	5.20E+04	No	9.06E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Selenium	7782-49-2	ug/kg	253	7.80E+02	No	8.40E+02	No
100-K-106_Shallow_Focused_6	non-Rad	Silver	7440-22-4	ug/kg	25	1.67E+02	No	2.73E+02	No
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	ug/kg	24,800	--	--	--	--
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	ug/kg	465	--	--	--	--
100-K-106_Shallow_Focused_6	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	50,000	--	--	--	--
100-K-106_Shallow_Focused_6	non-Rad	Uranium	7440-61-1	ug/kg	478	3.21E+03	No	4.04E+03	No
100-K-106_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	44,300	8.51E+04	No	1.40E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	38,600	6.78E+04	No	3.66E+05	No
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,190	2.00E+04	No	2.77E+04	No
100-K-109_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,735	1.32E+05	No	4.80E+05	No
100-K-109_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	296	1.51E+03	No	1.00E+04	No
100-K-109_Shallow	non-Rad	Boron	7440-42-8	ug/kg	898	3.89E+03	No	5.86E+03	No
100-K-109_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,903	1.85E+04	No	3.20E+05	No
100-K-109_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,090	1.57E+04	No	1.10E+05	No
100-K-109_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,732	2.20E+04	No	6.10E+04	No
100-K-109_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,032	1.02E+04	No	7.41E+04	No
100-K-109_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331,189	5.12E+05	No	1.11E+06	No
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	76	1.31E+01	Yes	2.92E+01	Yes
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	480	4.70E+02	Yes	3.17E+03	No
100-K-109_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,689	1.91E+04	No	2.00E+05	No
100-K-109_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	7,823	5.20E+04	No	9.06E+05	No
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,027	7.80E+02	Yes	8.40E+02	Yes
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	25,362	--	--	--	--
100-K-109_Shallow	non-Rad	Tin	7440-31-5	ug/kg	446	--	--	--	--
100-K-109_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	456	3.21E+03	No	4.04E+03	No
100-K-109_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57,582	8.51E+04	No	1.40E+05	No
100-K-109_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,302	6.78E+04	No	3.66E+05	No
100-K-109_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.022	1.05E+00	No	1.64E+00	No
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	2.00E+04	No	2.77E+04	No
100-K-109_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,200	1.32E+05	No	4.80E+05	No
100-K-109_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	1.51E+03	No	1.00E+04	No
100-K-109_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	81	5.63E+02	No	2.98E+03	No
100-K-109_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	1.85E+04	No	3.20E+05	No
100-K-109_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,100	1.57E+04	No	1.10E+05	No
100-K-109_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,500	2.20E+04	No	6.10E+04	No
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	167	--	--	--	--
100-K-109_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,200	1.02E+04	No	7.41E+04	No
100-K-109_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	359,000	5.12E+05	No	1.11E+06	No
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	1.31E+01	Yes	2.92E+01	No
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	480	4.70E+02	Yes	3.17E+03	No
100-K-109_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,500	1.91E+04	No	2.00E+05	No
100-K-109_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5,050	5.20E+04	No	9.06E+05	No
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,900	7.80E+02	Yes	8.40E+02	Yes
100-K-109_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	47	1.67E+02	No	2.73E+02	No
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	21,700	--	--	--	--
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	970	--	--	--	--
100-K-109_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	460	3.21E+03	No	4.04E+03	No
100-K-109_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75,500	8.51E+04	No	1.40E+05	No
100-K-109_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	56,100	6.78E+04	No	3.66E+05	No
100-K-110_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.00E+06	1.18E+07	No	2.88E+07	No
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4,417	1.30E+02	Yes	3.85E+02	Yes
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,694	2.00E+04	No	2.77E+04	No
100-K-110_Shallow	non-Rad	Barium	7440-39-3	ug/kg	73,627	1.32E+05	No	4.80E+05	No
100-K-110_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	326	1.51E+03	No	1.00E+04	No
100-K-110_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	118	5.63E+02	No	2.98E+03	No
100-K-110_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,294	1.85E+04	No	3.20E+05	No
100-K-110_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,749	1.57E+04	No	1.10E+05	No
100-K-110_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,605	2.20E+04	No	6.10E+04	No
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	--	--	--	--
100-K-110_Shallow	non-Rad	Iron	7439-89-6	ug/kg	3.35E+07	3.26E+07	Yes	6.81E+07	No
100-K-110_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,648	1.02E+04	No	7.41E+04	No
100-K-110_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	412,928	5.12E+05	No	1.11E+06	No
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	431	1.31E+01	Yes	2.92E+01	Yes
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	587	4.70E+02	Yes	3.17E+03	No
100-K-110_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,586	1.91E+04	No	2.00E+05	No
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,813	7.80E+02	Yes	8.40E+02	Yes

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-110_Shallow	non-Rad	Silver	7440-22-4	ug/kg	38	1.67E+02	No	2.73E+02	No
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	40,258	--	--	--	--
100-K-110_Shallow	non-Rad	Thallium	7440-28-0	ug/kg	142	1.85E+02	No	5.23E+02	No
100-K-110_Shallow	non-Rad	Tin	7440-31-5	ug/kg	994	--	--	--	--
100-K-110_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	82,610	8.51E+04	No	1.40E+05	No
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	76,549	6.78E+04	Yes	3.66E+05	No
100-K-110_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.094	1.05E+00	No	1.64E+00	No
100-K-110_Shallow	Rad	Europium-155	14391-16-3	pCi/g	0.034	5.39E-02	No	9.84E-02	No
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,870	5.63E+02	Yes	2.98E+03	No
100-K-110_Shallow_focused	non-Rad	Chromium	7440-47-3	ug/kg	8,640	1.85E+04	No	3.20E+05	No
100-K-110_Shallow_focused	non-Rad	Lead	7439-92-1	ug/kg	5,630	1.02E+04	No	7.41E+04	No
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	110	1.31E+01	Yes	2.92E+01	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4,152	1.30E+02	Yes	3.85E+02	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,120	2.00E+04	No	2.77E+04	No
100-K-14, 126-KE-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,924	1.32E+05	No	4.80E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,633	1.51E+03	Yes	1.00E+04	No
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,604	3.89E+03	Yes	5.86E+03	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,578	1.85E+04	No	3.20E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,836	1.57E+04	No	1.10E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,884	2.20E+04	No	6.10E+04	No
100-K-14, 126-KE-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,373	1.02E+04	No	7.41E+04	No
100-K-14, 126-KE-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	398,037	5.12E+05	No	1.11E+06	No
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	492	1.31E+01	Yes	2.92E+01	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,222	4.70E+02	Yes	3.17E+03	No
100-K-14, 126-KE-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7,912	1.91E+04	No	2.00E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2,636	5.20E+04	No	9.06E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,141	7.80E+02	Yes	8.40E+02	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	958	1.67E+02	Yes	2.73E+02	Yes
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	99,067	8.51E+04	Yes	1.40E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	56,730	6.78E+04	No	3.66E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Arsenic	7440-38-2	ug/kg	2,390	2.00E+04	No	2.77E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Barium	7440-39-3	ug/kg	60,009	1.32E+05	No	4.80E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Beryllium	7440-41-7	ug/kg	502	1.51E+03	No	1.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Boron	7440-42-8	ug/kg	1,046	3.89E+03	No	5.86E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Chromium	7440-47-3	ug/kg	6,226	1.85E+04	No	3.20E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Cobalt	7440-48-4	ug/kg	11,920	1.57E+04	No	1.10E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Copper	7440-50-8	ug/kg	18,341	2.20E+04	No	6.10E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Lead	7439-92-1	ug/kg	4,184	1.02E+04	No	7.41E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Manganese	7439-96-5	ug/kg	392,477	5.12E+05	No	1.11E+06	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Molybdenum	7439-98-7	ug/kg	574	4.70E+02	Yes	3.17E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nickel	7440-02-0	ug/kg	10,109	1.91E+04	No	2.00E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nitrate	14797-55-8	ug/kg	15,456	5.20E+04	No	9.06E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	ug/kg	2,351	7.80E+02	Yes	8.40E+02	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Strontium	7440-24-6	ug/kg	27,842	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Tin	7440-31-5	ug/kg	583	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Uranium	7440-61-1	ug/kg	490	3.21E+03	No	4.04E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Vanadium	7440-62-2	ug/kg	84,281	8.51E+04	No	1.40E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Zinc	7440-66-6	ug/kg	53,650	6.78E+04	No	3.66E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Arsenic	7440-38-2	ug/kg	1,750	2.00E+04	No	2.77E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Barium	7440-39-3	ug/kg	70,219	1.32E+05	No	4.80E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Boron	7440-42-8	ug/kg	1,930	3.89E+03	No	5.86E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Chromium	7440-47-3	ug/kg	6,300	1.85E+04	No	3.20E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Cobalt	7440-48-4	ug/kg	12,300	1.57E+04	No	1.10E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Copper	7440-50-8	ug/kg	18,831	2.20E+04	No	6.10E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	174	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Lead	7439-92-1	ug/kg	3,900	1.02E+04	No	7.41E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Manganese	7439-96-5	ug/kg	453,916	5.12E+05	No	1.11E+06	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	ug/kg	241	1.31E+01	Yes	2.92E+01	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Molybdenum	7439-98-7	ug/kg	733	4.70E+02	Yes	3.17E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nickel	7440-02-0	ug/kg	8,930	1.91E+04	No	2.00E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nitrate	14797-55-8	ug/kg	12,309	5.20E+04	No	9.06E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	ug/kg	2,400	7.80E+02	Yes	8.40E+02	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Strontium	7440-24-6	ug/kg	27,929	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Tin	7440-31-5	ug/kg	672	--	--	--	--

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Uranium	7440-61-1	ug/kg	498	3.21E+03	No	4.04E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	8.51E+04	Yes	1.40E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Zinc	7440-66-6	ug/kg	56,500	6.78E+04	No	3.66E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,335	2.00E+04	No	2.77E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	75,392	1.32E+05	No	4.80E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	414	1.51E+03	No	1.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,701	3.89E+03	No	5.86E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	93	5.63E+02	No	2.98E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,100	1.85E+04	No	3.20E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	12,643	1.57E+04	No	1.10E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,484	2.20E+04	No	6.10E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,780	1.02E+04	No	7.41E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	421,132	5.12E+05	No	1.11E+06	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	68	1.31E+01	Yes	2.92E+01	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	622	4.70E+02	Yes	3.17E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,208	1.91E+04	No	2.00E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	24,794	5.20E+04	No	9.06E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,057	7.80E+02	Yes	8.40E+02	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	34,319	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	626	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	639	3.21E+03	No	4.04E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	87,520	8.51E+04	Yes	1.40E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	60,142	6.78E+04	No	3.66E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	2.00E+04	No	2.77E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	54,400	1.32E+05	No	4.80E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	210	1.51E+03	No	1.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	61	5.63E+02	No	2.98E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,600	1.85E+04	No	3.20E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,400	1.57E+04	No	1.10E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,400	2.20E+04	No	6.10E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	764	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,100	1.02E+04	No	7.41E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294,000	5.12E+05	No	1.11E+06	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	290	1.31E+01	Yes	2.92E+01	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	510	4.70E+02	Yes	3.17E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,100	1.91E+04	No	2.00E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,700	7.80E+02	Yes	8.40E+02	Yes
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	53	1.67E+02	No	2.73E+02	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	20,500	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	480	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	380	3.21E+03	No	4.04E+03	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82,400	8.51E+04	No	1.40E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,700	6.78E+04	No	3.66E+05	No
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	98	--	--	--	--
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	2.00E+04	No	2.77E+04	No
100-K-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	66,400	1.32E+05	No	4.80E+05	No
100-K-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	5.63E+02	No	2.98E+03	No
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	24,700	1.85E+04	Yes	3.20E+05	No
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,200	--	--	--	--
100-K-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	63,200	1.02E+04	Yes	7.41E+04	No
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	50	1.31E+01	Yes	2.92E+01	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Acenaphthene	83-32-9	ug/kg	41	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Anthracene	120-12-7	ug/kg	1.4	--	--	--	--

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Antimony	7440-36-0	ug/kg	1,520	1.30E+02	Yes	3.85E+02	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1016	12674-11-2	ug/kg	5.7	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	17	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	4,321	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Barium	7440-39-3	ug/kg	72,619	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	57	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	50	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	67	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	307	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,129	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	87	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	6,988	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Chrysene	218-01-9	ug/kg	94	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,620	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Copper	7440-50-8	ug/kg	18,087	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	95	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Fluorene	86-73-7	ug/kg	3.0	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,538	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Manganese	7439-96-5	ug/kg	315,657	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	28	1.31E+01	Yes	2.92E+01	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	374	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Naphthalene	91-20-3	ug/kg	25	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Nickel	7440-02-0	ug/kg	9,603	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	6,970	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Pyrene	129-00-0	ug/kg	109	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Selenium	7782-49-2	ug/kg	285	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Silver	7440-22-4	ug/kg	63	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Strontium	7440-24-6	ug/kg	34,076	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Tin	7440-31-5	ug/kg	664	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Uranium	7440-61-1	ug/kg	557	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	47,848	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Zinc	7440-66-6	ug/kg	44,799	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.025	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.062	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.027	2.48E-02	Yes	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Strontium-90	10098-97-2	pCi/g	0.72	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.012	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Acenaphthene	83-32-9	ug/kg	880	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Anthracene	120-12-7	ug/kg	71	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	597	1.30E+02	Yes	3.85E+02	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	200	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	42,600	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	230	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	160	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	220	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	93	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	133	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	707	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	80	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	4,120	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Chrysene	218-01-9	ug/kg	280	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,600	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,800	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	130	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Fluoranthene	206-44-0	ug/kg	480	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Fluorene	86-73-7	ug/kg	59	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	120	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	4,430	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	217,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	331	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Naphthalene	91-20-3	ug/kg	480	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	7,010	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	12,100	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Pyrene	129-00-0	ug/kg	390	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	23,300	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	808	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	308	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	28,700	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	31,500	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.037	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	6.2	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.11	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.11	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Aroclor-1260	11096-82-5	ug/kg	53	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Barium	7440-39-3	ug/kg	48,000	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	22	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	18	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Beryllium	7440-41-7	ug/kg	214	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Boron	7440-42-8	ug/kg	664	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Cadmium	7440-43-9	ug/kg	56	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Chromium	7440-47-3	ug/kg	4,160	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Chrysene	218-01-9	ug/kg	29	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Cobalt	7440-48-4	ug/kg	8,180	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Copper	7440-50-8	ug/kg	16,000	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Fluoranthene	206-44-0	ug/kg	48	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	14	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Lead	7439-92-1	ug/kg	2,860	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Manganese	7439-96-5	ug/kg	265,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Molybdenum	7439-98-7	ug/kg	195	4.70E+02	No	3.17E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Nickel	7440-02-0	ug/kg	7,500	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Nitrate	14797-55-8	ug/kg	8,010	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Pyrene	129-00-0	ug/kg	46	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Strontium	7440-24-6	ug/kg	24,500	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Tin	7440-31-5	ug/kg	372	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Uranium	7440-61-1	ug/kg	344	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Vanadium	7440-62-2	ug/kg	30,500	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Zinc	7440-66-6	ug/kg	34,100	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Americium-241	14596-10-2	pCi/g	0.18	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-238	13981-16-3	pCi/g	0.036	3.78E-03	Yes	1.93E-02	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.14	2.48E-02	Yes	3.31E-02	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Strontium-90	10098-97-2	pCi/g	5.4	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-233/234	U-233/234	pCi/g	0.13	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-235	15117-96-1	pCi/g	0.017	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-238	U-238	pCi/g	0.14	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	160	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	2.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	374	1.30E+02	Yes	3.85E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,376	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,180	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	49	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	49	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	73	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	32	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	312	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,900	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	97	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,672	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	75	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,148	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,544	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	42	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	88	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.3	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	102	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	27	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,602	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344,962	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	50	1.31E+01	Yes	2.92E+01	Yes
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	733	4.70E+02	Yes	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	39	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,440	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	12,632	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	66	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	258	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Silver	7440-22-4	ug/kg	36	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	31,056	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	503	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	464	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,526	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49,004	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.031	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.29	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.15	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.027	2.48E-02	Yes	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.018	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.19	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	ug/kg	49	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1,640	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	48,800	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	15	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	197	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	2,900	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	18	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,120	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	14,700	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	3,190	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	258,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	224	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	23	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	6,370	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	8,680	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	19	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	24,000	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	345	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	369	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	30,700	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	33,600	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	0.057	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.13	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.017	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.14	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	68,900	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.0	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	303	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6,920	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,860	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	18,900	2.20E+04	No	6.10E+04	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	4.5	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	3,520	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	335,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	242	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	11,100	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	300	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	31,600	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	446	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	485	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	42,400	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	42,500	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	0.021	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.016	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.17	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-235	15117-96-1	pCi/g	0.0097	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	56,800	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	283	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	56	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	4,960	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	8,130	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	15,700	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	2,940	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	266,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	222	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	7,710	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	25,500	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	404	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	408	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	35,600	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	33,800	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-235	15117-96-1	pCi/g	0.020	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	ug/kg	64	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	ug/kg	2,830	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Barium	7440-39-3	ug/kg	62,500	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	19	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Beryllium	7440-41-7	ug/kg	267	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Boron	7440-42-8	ug/kg	958	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cadmium	7440-43-9	ug/kg	70	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chromium	7440-47-3	ug/kg	5,900	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	21	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cobalt	7440-48-4	ug/kg	8,030	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Copper	7440-50-8	ug/kg	14,800	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	ug/kg	33	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	ug/kg	4.4	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.7	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Lead	7439-92-1	ug/kg	5,150	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Manganese	7439-96-5	ug/kg	303,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Molybdenum	7439-98-7	ug/kg	223	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	43	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Nickel	7440-02-0	ug/kg	9,520	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	ug/kg	23	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	ug/kg	30,700	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	ug/kg	341	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Uranium	7440-61-1	ug/kg	506	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Vanadium	7440-62-2	ug/kg	28,800	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Zinc	7440-66-6	ug/kg	36,700	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.020	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-235	15117-96-1	pCi/g	0.0063	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	ug/kg	210	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	ug/kg	2,990	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Barium	7440-39-3	ug/kg	69,700	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	67	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	62	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	38	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Beryllium	7440-41-7	ug/kg	277	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Boron	7440-42-8	ug/kg	1,700	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cadmium	7440-43-9	ug/kg	75	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chromium	7440-47-3	ug/kg	8,670	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	81	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cobalt	7440-48-4	ug/kg	8,980	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Copper	7440-50-8	ug/kg	16,900	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	51	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	ug/kg	81	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	40	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Lead	7439-92-1	ug/kg	6,080	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Manganese	7439-96-5	ug/kg	318,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Molybdenum	7439-98-7	ug/kg	273	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nickel	7440-02-0	ug/kg	10,300	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nitrate	14797-55-8	ug/kg	5,000	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	ug/kg	77	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	ug/kg	34,100	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	ug/kg	398	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Uranium	7440-61-1	ug/kg	506	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Vanadium	7440-62-2	ug/kg	36,000	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Zinc	7440-66-6	ug/kg	38,800	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-233/234	U-233/234	pCi/g	0.20	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-235	15117-96-1	pCi/g	0.0070	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-238	U-238	pCi/g	0.23	1.06E+00	No	1.21E+00	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	ug/kg	550	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	ug/kg	12	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	ug/kg	319	1.30E+02	Yes	3.85E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Barium	7440-39-3	ug/kg	55,200	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	99	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	110	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	150	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Beryllium	7440-41-7	ug/kg	291	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Boron	7440-42-8	ug/kg	2,970	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cadmium	7440-43-9	ug/kg	63	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chromium	7440-47-3	ug/kg	8,390	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	170	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cobalt	7440-48-4	ug/kg	8,390	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Copper	7440-50-8	ug/kg	16,500	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	35	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	ug/kg	210	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	73	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Lead	7439-92-1	ug/kg	42,200	1.02E+04	Yes	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Manganese	7439-96-5	ug/kg	275,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	ug/kg	483	4.70E+02	Yes	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Nickel	7440-02-0	ug/kg	19,100	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	ug/kg	130	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	ug/kg	30,500	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	ug/kg	983	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Uranium	7440-61-1	ug/kg	437	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Vanadium	7440-62-2	ug/kg	23,900	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Zinc	7440-66-6	ug/kg	32,700	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	pCi/g	0.022	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-233/234	U-233/234	pCi/g	0.11	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-235	15117-96-1	pCi/g	0.0099	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	ug/kg	310	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	ug/kg	2,680	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Barium	7440-39-3	ug/kg	61,600	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	65	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	31	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	57	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Beryllium	7440-41-7	ug/kg	342	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Boron	7440-42-8	ug/kg	1,600	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cadmium	7440-43-9	ug/kg	72	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chromium	7440-47-3	ug/kg	7,710	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	87	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cobalt	7440-48-4	ug/kg	8,670	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Copper	7440-50-8	ug/kg	15,600	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	ug/kg	150	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Lead	7439-92-1	ug/kg	5,710	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Manganese	7439-96-5	ug/kg	308,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Molybdenum	7439-98-7	ug/kg	282	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Nickel	7440-02-0	ug/kg	10,200	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	ug/kg	100	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	ug/kg	31,200	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	ug/kg	412	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Uranium	7440-61-1	ug/kg	484	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Vanadium	7440-62-2	ug/kg	35,200	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Zinc	7440-66-6	ug/kg	38,600	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-233/234	U-233/234	pCi/g	0.16	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-235	15117-96-1	pCi/g	0.0077	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	ug/kg	27	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	ug/kg	2,830	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Barium	7440-39-3	ug/kg	62,200	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.3	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.4	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.9	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Beryllium	7440-41-7	ug/kg	311	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chromium	7440-47-3	ug/kg	4,710	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Cobalt	7440-48-4	ug/kg	8,770	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Copper	7440-50-8	ug/kg	18,400	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	ug/kg	16	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.4	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Lead	7439-92-1	ug/kg	4,020	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Manganese	7439-96-5	ug/kg	290,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Molybdenum	7439-98-7	ug/kg	215	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Nickel	7440-02-0	ug/kg	8,650	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	ug/kg	9.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Selenium	7782-49-2	ug/kg	301	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	ug/kg	30,000	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	ug/kg	376	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Uranium	7440-61-1	ug/kg	436	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Vanadium	7440-62-2	ug/kg	30,600	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Zinc	7440-66-6	ug/kg	38,000	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	pCi/g	0.022	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-235	15117-96-1	pCi/g	0.0079	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-238	U-238	pCi/g	0.19	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	ug/kg	3,090	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Barium	7440-39-3	ug/kg	64,200	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Beryllium	7440-41-7	ug/kg	272	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Boron	7440-42-8	ug/kg	806	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cadmium	7440-43-9	ug/kg	87	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Chromium	7440-47-3	ug/kg	8,670	1.85E+04	No	3.20E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cobalt	7440-48-4	ug/kg	8,260	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Copper	7440-50-8	ug/kg	16,800	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	ug/kg	5.2	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Lead	7439-92-1	ug/kg	24,100	1.02E+04	Yes	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Manganese	7439-96-5	ug/kg	324,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Molybdenum	7439-98-7	ug/kg	272	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nickel	7440-02-0	ug/kg	11,100	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nitrate	14797-55-8	ug/kg	17,400	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	ug/kg	2.8	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	ug/kg	29,900	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	ug/kg	399	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Uranium	7440-61-1	ug/kg	529	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Vanadium	7440-62-2	ug/kg	35,800	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Zinc	7440-66-6	ug/kg	40,200	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-235	15117-96-1	pCi/g	0.028	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	ug/kg	1,400	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	ug/kg	2,610	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Barium	7440-39-3	ug/kg	58,000	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	280	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	120	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	210	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	96	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Beryllium	7440-41-7	ug/kg	296	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4,990	3.89E+03	Yes	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chromium	7440-47-3	ug/kg	6,700	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	350	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Cobalt	7440-48-4	ug/kg	8,150	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Copper	7440-50-8	ug/kg	16,500	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	68	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	ug/kg	880	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	ug/kg	100	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Lead	7439-92-1	ug/kg	4,780	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Manganese	7439-96-5	ug/kg	306,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Molybdenum	7439-98-7	ug/kg	250	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nickel	7440-02-0	ug/kg	9,500	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nitrate	14797-55-8	ug/kg	4,560	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	ug/kg	590	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	ug/kg	26,500	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	ug/kg	403	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Uranium	7440-61-1	ug/kg	370	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Vanadium	7440-62-2	ug/kg	38,200	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Zinc	7440-66-6	ug/kg	38,200	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-233/234	U-233/234	pCi/g	0.17	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-235	15117-96-1	pCi/g	0.0078	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-238	U-238	pCi/g	0.19	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	ug/kg	31	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	ug/kg	4.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Barium	7440-39-3	ug/kg	66,000	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.9	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.5	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.5	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Beryllium	7440-41-7	ug/kg	229	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cadmium	7440-43-9	ug/kg	64	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chromium	7440-47-3	ug/kg	6,520	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cobalt	7440-48-4	ug/kg	9,360	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Copper	7440-50-8	ug/kg	18,800	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	ug/kg	4.1	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Lead	7439-92-1	ug/kg	3,690	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Manganese	7439-96-5	ug/kg	331,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Molybdenum	7439-98-7	ug/kg	244	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Nickel	7440-02-0	ug/kg	10,500	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	ug/kg	59	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	ug/kg	32,000	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	ug/kg	431	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Uranium	7440-61-1	ug/kg	528	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Zinc	7440-66-6	ug/kg	39,200	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	pCi/g	0.070	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Cesium-137	10045-97-3	pCi/g	0.50	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	2.48E-02	Yes	3.31E-02	Yes
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	pCi/g	1.5	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-233/234	U-233/234	pCi/g	0.23	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-235	15117-96-1	pCi/g	0.022	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-238	U-238	pCi/g	0.21	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	ug/kg	1,290	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Barium	7440-39-3	ug/kg	40,000	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Beryllium	7440-41-7	ug/kg	175	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Boron	7440-42-8	ug/kg	549	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Chromium	7440-47-3	ug/kg	1,450	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Cobalt	7440-48-4	ug/kg	7,830	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Copper	7440-50-8	ug/kg	14,400	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Lead	7439-92-1	ug/kg	2,070	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Manganese	7439-96-5	ug/kg	205,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Molybdenum	7439-98-7	ug/kg	175	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Nickel	7440-02-0	ug/kg	5,200	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Selenium	7782-49-2	ug/kg	282	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	ug/kg	21,600	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	ug/kg	283	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Uranium	7440-61-1	ug/kg	373	3.21E+03	No	4.04E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Vanadium	7440-62-2	ug/kg	24,700	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Zinc	7440-66-6	ug/kg	27,300	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-235	15117-96-1	pCi/g	0.030	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-238	U-238	pCi/g	0.18	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	ug/kg	410	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	ug/kg	29	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	ug/kg	2,390	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Barium	7440-39-3	ug/kg	51,800	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	150	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	56	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Beryllium	7440-41-7	ug/kg	247	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Boron	7440-42-8	ug/kg	2,010	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cadmium	7440-43-9	ug/kg	62	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chromium	7440-47-3	ug/kg	7,090	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	200	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cobalt	7440-48-4	ug/kg	6,860	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Copper	7440-50-8	ug/kg	13,800	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	ug/kg	330	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	ug/kg	4.4	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	32	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Lead	7439-92-1	ug/kg	5,070	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Manganese	7439-96-5	ug/kg	247,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Molybdenum	7439-98-7	ug/kg	211	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	280	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nickel	7440-02-0	ug/kg	8,640	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nitrate	14797-55-8	ug/kg	4,390	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	ug/kg	220	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	ug/kg	29,800	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	ug/kg	284	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Uranium	7440-61-1	ug/kg	371	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Vanadium	7440-62-2	ug/kg	23,700	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Zinc	7440-66-6	ug/kg	31,100	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	pCi/g	0.030	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.018	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-235	15117-96-1	pCi/g	0.018	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	ug/kg	58	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	ug/kg	1,710	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Barium	7440-39-3	ug/kg	45,400	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Beryllium	7440-41-7	ug/kg	189	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cadmium	7440-43-9	ug/kg	83	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chromium	7440-47-3	ug/kg	2,370	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	18	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cobalt	7440-48-4	ug/kg	7,920	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Copper	7440-50-8	ug/kg	15,600	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	ug/kg	29	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	ug/kg	4.5	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.4	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Lead	7439-92-1	ug/kg	3,330	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Manganese	7439-96-5	ug/kg	218,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Molybdenum	7439-98-7	ug/kg	234	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	29	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Nickel	7440-02-0	ug/kg	5,650	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	ug/kg	23	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	ug/kg	23,200	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	ug/kg	318	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Uranium	7440-61-1	ug/kg	408	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Vanadium	7440-62-2	ug/kg	28,100	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Zinc	7440-66-6	ug/kg	30,900	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.011	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-233/234	U-233/234	pCi/g	0.12	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-235	15117-96-1	pCi/g	0.014	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	ug/kg	392	1.30E+02	Yes	3.85E+02	Yes
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	250	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	ug/kg	3,830	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Barium	7440-39-3	ug/kg	72,600	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	36	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	23	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	15	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Beryllium	7440-41-7	ug/kg	357	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Boron	7440-42-8	ug/kg	1,450	3.89E+03	No	5.86E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cadmium	7440-43-9	ug/kg	104	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chromium	7440-47-3	ug/kg	6,600	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	41	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cobalt	7440-48-4	ug/kg	9,670	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Copper	7440-50-8	ug/kg	18,400	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	ug/kg	89	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Lead	7439-92-1	ug/kg	6,840	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Manganese	7439-96-5	ug/kg	321,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	ug/kg	625	4.70E+02	Yes	3.17E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nickel	7440-02-0	ug/kg	9,750	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nitrate	14797-55-8	ug/kg	4,650	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	ug/kg	66	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Selenium	7782-49-2	ug/kg	273	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Silver	7440-22-4	ug/kg	59	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	ug/kg	34,900	--	--	--	--

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	ug/kg	572	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Uranium	7440-61-1	ug/kg	548	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Vanadium	7440-62-2	ug/kg	44,400	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Zinc	7440-66-6	ug/kg	45,600	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Cesium-137	10045-97-3	pCi/g	0.059	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.011	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-233/234	U-233/234	pCi/g	0.14	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-235	15117-96-1	pCi/g	0.0061	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,560	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	60,100	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	269	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	71	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	3,330	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,100	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,900	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,540	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	267,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	315	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6,820	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Selenium	7782-49-2	ug/kg	313	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Silver	7440-22-4	ug/kg	29	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	26,400	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	410	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	437	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	49,200	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	38,500	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.36	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	48	1.05E+00	Yes	1.64E+00	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	0.061	3.78E-03	Yes	1.93E-02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.58	2.48E-02	Yes	3.31E-02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	16	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.11	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.026	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,741	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Barium	7440-39-3	ug/kg	80,180	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	352	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	78	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,442	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,993	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,132	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5,472	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	314,579	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	30	1.31E+01	Yes	2.92E+01	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	376	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,136	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	256	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Silver	7440-22-4	ug/kg	38	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	32,033	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	ug/kg	442	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	601	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52,793	8.51E+04	No	1.40E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,573	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.038	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.05E+00	No	1.64E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.042	8.42E-03	Yes	3.87E-02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	pCi/g	0.092	5.39E-02	Yes	9.84E-02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.014	2.48E-02	No	3.31E-02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.012	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-238	U-238	pCi/g	0.18	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	193	1.30E+02	Yes	3.85E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,726	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,394	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	406	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	83	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,069	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,796	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,640	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,721	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	325,964	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	382	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,444	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	281	7.80E+02	No	8.40E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Silver	7440-22-4	ug/kg	41	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	32,952	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	ug/kg	456	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	530	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,139	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,856	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.092	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.6	1.05E+00	Yes	1.64E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.038	8.42E-03	Yes	3.87E-02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.026	3.78E-03	Yes	1.93E-02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.16	2.48E-02	Yes	3.31E-02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	0.89	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.16	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.015	1.09E-01	No	3.86E-01	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Anthracene	120-12-7	ug/kg	2.2	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	120	1.30E+02	No	3.85E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	22	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	63,000	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.3	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.4	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.6	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.9	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	280	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	87	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	4,700	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	12	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	12,200	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	17,100	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	18	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.0	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	3,800	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lithium	7439-93-2	ug/kg	4,600	1.33E+04	No	1.92E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	364,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	430	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9,000	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	2,390	5.20E+04	No	9.06E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	19	--	--	--	--

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,800	7.80E+02	Yes	8.40E+02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	49	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	25,400	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	590	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	460	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,200	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	48,100	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.41	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.31	1.06E+00	No	1.21E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	1,200	1.30E+02	Yes	3.85E+02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	12	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No	2.77E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	57,800	1.32E+05	No	4.80E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	48	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	47	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	270	1.51E+03	No	1.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	110	5.63E+02	No	2.98E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6,600	1.85E+04	No	3.20E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	73	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,800	1.57E+04	No	1.10E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	18,100	2.20E+04	No	6.10E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	150	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	6,900	1.02E+04	No	7.41E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lithium	7439-93-2	ug/kg	5,400	1.33E+04	No	1.92E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	300,000	5.12E+05	No	1.11E+06	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	400	4.70E+02	No	3.17E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	9,400	1.91E+04	No	2.00E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1,600	7.80E+02	Yes	8.40E+02	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	45	1.67E+02	No	2.73E+02	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	27,800	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	570	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	430	3.21E+03	No	4.04E+03	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	53,600	8.51E+04	No	1.40E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	50,300	6.78E+04	No	3.66E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	0.23	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Cesium-137	10045-97-3	pCi/g	1.6	1.05E+00	Yes	1.64E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Europium-152	14683-23-9	pCi/g	0.23	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Strontium-90	10098-97-2	pCi/g	0.96	1.78E-01	Yes	3.66E-01	Yes
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	1.10E+00	No	1.51E+00	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	0.56	1.06E+00	No	1.21E+00	No
100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	554	1.30E+02	Yes	3.85E+02	Yes
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,190	2.00E+04	No	2.77E+04	No
100-K-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	98,100	1.32E+05	No	4.80E+05	No
100-K-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	416	1.51E+03	No	1.00E+04	No
100-K-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	80	5.63E+02	No	2.98E+03	No
100-K-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9,000	1.85E+04	No	3.20E+05	No
100-K-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	10,700	1.57E+04	No	1.10E+05	No
100-K-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	19,900	2.20E+04	No	6.10E+04	No
100-K-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	8,110	1.02E+04	No	7.41E+04	No
100-K-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	424,000	5.12E+05	No	1.11E+06	No
100-K-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	435	4.70E+02	No	3.17E+03	No
100-K-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,300	1.91E+04	No	2.00E+05	No
100-K-3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	281	7.80E+02	No	8.40E+02	No
100-K-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	56	1.67E+02	No	2.73E+02	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	34,100	--	--	--	--
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	636	--	--	--	--
100-K-3_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	815	3.21E+03	No	4.04E+03	No
100-K-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	47,700	8.51E+04	No	1.40E+05	No
100-K-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	44,600	6.78E+04	No	3.66E+05	No
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	0.035	--	--	--	--
100-K-3_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.23	1.05E+00	No	1.64E+00	No
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.44	--	--	--	--
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.047	2.48E-02	Yes	3.31E-02	Yes
100-K-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.17	1.06E+00	No	1.21E+00	No
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	2.00E+04	No	2.77E+04	No
100-K-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	70,100	1.32E+05	No	4.80E+05	No
100-K-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	334	1.51E+03	No	1.00E+04	No
100-K-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	833	3.89E+03	No	5.86E+03	No
100-K-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	83	5.63E+02	No	2.98E+03	No
100-K-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6,540	1.85E+04	No	3.20E+05	No
100-K-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,100	1.57E+04	No	1.10E+05	No
100-K-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17,400	2.20E+04	No	6.10E+04	No
100-K-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,460	1.02E+04	No	7.41E+04	No
100-K-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	301,000	5.12E+05	No	1.11E+06	No
100-K-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	394	4.70E+02	No	3.17E+03	No
100-K-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9,590	1.91E+04	No	2.00E+05	No
100-K-3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6,330	5.20E+04	No	9.06E+05	No
100-K-3_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	262	7.80E+02	No	8.40E+02	No
100-K-3_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	35	1.67E+02	No	2.73E+02	No
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	32,500	--	--	--	--
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	481	--	--	--	--
100-K-3_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	522	3.21E+03	No	4.04E+03	No
100-K-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,700	8.51E+04	No	1.40E+05	No
100-K-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	45,000	6.78E+04	No	3.66E+05	No
100-K-3_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.077	1.05E+00	No	1.64E+00	No
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.054	2.48E-02	Yes	3.31E-02	Yes
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	0.67	1.78E-01	Yes	3.66E-01	Yes
100-K-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.20	1.10E+00	No	1.51E+00	No
100-K-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.21	1.06E+00	No	1.21E+00	No
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	2.00E+04	No	2.77E+04	No
100-K-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,700	1.32E+05	No	4.80E+05	No
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	640	5.63E+02	Yes	2.98E+03	No
100-K-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,200	1.85E+04	No	3.20E+05	No
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	702	--	--	--	--
100-K-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	36,000	1.02E+04	Yes	7.41E+04	No
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17,500	1.31E+01	Yes	2.92E+01	Yes
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	169,000	1.32E+05	Yes	4.80E+05	No
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	750	5.63E+02	Yes	2.98E+03	No
100-K-31_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,300	1.85E+04	No	3.20E+05	No
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	--	--	--	--
100-K-31_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	43,400	1.02E+04	Yes	7.41E+04	No
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5,200	1.31E+01	Yes	2.92E+01	Yes
100-K-31_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	400	7.80E+02	No	8.40E+02	No
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,000	2.00E+04	No	2.77E+04	No
100-K-32_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	97,400	1.32E+05	No	4.80E+05	No
100-K-32_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	380	5.63E+02	No	2.98E+03	No
100-K-32_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,900	1.85E+04	No	3.20E+05	No
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	--	--	--	--
100-K-32_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	42,800	1.02E+04	Yes	7.41E+04	No
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13,700	1.31E+01	Yes	2.92E+01	Yes
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,700	2.00E+04	No	2.77E+04	No
100-K-33_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	105,000	1.32E+05	No	4.80E+05	No
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,000	5.63E+02	Yes	2.98E+03	No
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,900	1.85E+04	Yes	3.20E+05	No
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,400	--	--	--	--
100-K-33_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,800	1.02E+04	Yes	7.41E+04	No
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6,800	1.31E+01	Yes	2.92E+01	Yes
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	ug/kg	555	1.30E+02	Yes	3.85E+02	Yes
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	ug/kg	3,695	2.00E+04	No	2.77E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Barium	7440-39-3	ug/kg	67,000	1.32E+05	No	4.80E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Beryllium	7440-41-7	ug/kg	339	1.51E+03	No	1.00E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Boron	7440-42-8	ug/kg	1,250	3.89E+03	No	5.86E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cadmium	7440-43-9	ug/kg	86	5.63E+02	No	2.98E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Chromium	7440-47-3	ug/kg	7,230	1.85E+04	No	3.20E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cobalt	7440-48-4	ug/kg	9,870	1.57E+04	No	1.10E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Copper	7440-50-8	ug/kg	18,800	2.20E+04	No	6.10E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Lead	7439-92-1	ug/kg	7,863	1.02E+04	No	7.41E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Manganese	7439-96-5	ug/kg	347,000	5.12E+05	No	1.11E+06	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	124	1.31E+01	Yes	2.92E+01	Yes
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	452	4.70E+02	No	3.17E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nickel	7440-02-0	ug/kg	10,400	1.91E+04	No	2.00E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nitrate	14797-55-8	ug/kg	12,100	5.20E+04	No	9.06E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Selenium	7782-49-2	ug/kg	270	7.80E+02	No	8.40E+02	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Silver	7440-22-4	ug/kg	31	1.67E+02	No	2.73E+02	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	ug/kg	35,041	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	ug/kg	602	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Uranium	7440-61-1	ug/kg	570	3.21E+03	No	4.04E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Vanadium	7440-62-2	ug/kg	46,800	8.51E+04	No	1.40E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Zinc	7440-66-6	ug/kg	47,734	6.78E+04	No	3.66E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	ug/kg	173	1.30E+02	Yes	3.85E+02	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3,173	2.00E+04	No	2.77E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Barium	7440-39-3	ug/kg	66,671	1.32E+05	No	4.80E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Beryllium	7440-41-7	ug/kg	351	1.51E+03	No	1.00E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Boron	7440-42-8	ug/kg	1,080	3.89E+03	No	5.86E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cadmium	7440-43-9	ug/kg	69	5.63E+02	No	2.98E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Chromium	7440-47-3	ug/kg	7,002	1.85E+04	No	3.20E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cobalt	7440-48-4	ug/kg	8,470	1.57E+04	No	1.10E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Copper	7440-50-8	ug/kg	17,479	2.20E+04	No	6.10E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Lead	7439-92-1	ug/kg	6,796	1.02E+04	No	7.41E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Manganese	7439-96-5	ug/kg	327,665	5.12E+05	No	1.11E+06	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	362	4.70E+02	No	3.17E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nickel	7440-02-0	ug/kg	9,360	1.91E+04	No	2.00E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nitrate	14797-55-8	ug/kg	5,090	5.20E+04	No	9.06E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Silver	7440-22-4	ug/kg	31	1.67E+02	No	2.73E+02	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	ug/kg	33,130	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	ug/kg	439	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Uranium	7440-61-1	ug/kg	527	3.21E+03	No	4.04E+03	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Vanadium	7440-62-2	ug/kg	48,128	8.51E+04	No	1.40E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Zinc	7440-66-6	ug/kg	41,087	6.78E+04	No	3.66E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	417	1.30E+02	Yes	3.85E+02	Yes
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,670	2.00E+04	No	2.77E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,900	1.32E+05	No	4.80E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	320	1.51E+03	No	1.00E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,760	3.89E+03	No	5.86E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	141	5.63E+02	No	2.98E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,900	1.85E+04	No	3.20E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,300	1.57E+04	No	1.10E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,452	2.20E+04	Yes	6.10E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	124	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	24,110	1.02E+04	Yes	7.41E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	383,474	5.12E+05	No	1.11E+06	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	189	1.31E+01	Yes	2.92E+01	Yes
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	967	4.70E+02	Yes	3.17E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	21,176	1.91E+04	Yes	2.00E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	38,265	5.20E+04	No	9.06E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	754	7.80E+02	No	8.40E+02	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	33,700	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	1,620	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	675	3.21E+03	No	4.04E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	73,516	8.51E+04	No	1.40E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	58,300	6.78E+04	No	3.66E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	7,700	1.30E+02	Yes	3.85E+02	Yes
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	14,800	2.00E+04	No	2.77E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	85,500	1.32E+05	No	4.80E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	410	1.51E+03	No	1.00E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	950	5.63E+02	Yes	2.98E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,900	1.85E+04	No	3.20E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	12,000	1.57E+04	No	1.10E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	30,500	2.20E+04	Yes	6.10E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7,700	2.81E+03	Yes	7.33E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	51,100	1.02E+04	Yes	7.41E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	408,000	5.12E+05	No	1.11E+06	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	100	1.31E+01	Yes	2.92E+01	Yes
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	4.70E+02	Yes	3.17E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,300	1.91E+04	No	2.00E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	26,600	5.20E+04	No	9.06E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2,200	7.80E+02	Yes	8.40E+02	Yes
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	74	1.67E+02	No	2.73E+02	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	60,400	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,800	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	810	3.21E+03	No	4.04E+03	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	89,200	8.51E+04	Yes	1.40E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	112,000	6.78E+04	Yes	3.66E+05	No
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,620	2.00E+04	No	2.77E+04	No
100-K-34_Shallow	non-Rad	Barium	7440-39-3	ug/kg	53,400	1.32E+05	No	4.80E+05	No
100-K-34_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	412	1.51E+03	No	1.00E+04	No
100-K-34_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,150	1.85E+04	No	3.20E+05	No
100-K-34_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,600	1.57E+04	No	1.10E+05	No
100-K-34_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,600	2.20E+04	No	6.10E+04	No
100-K-34_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,960	1.02E+04	No	7.41E+04	No
100-K-34_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	415,000	5.12E+05	No	1.11E+06	No
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	641	4.70E+02	Yes	3.17E+03	No
100-K-34_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,360	1.91E+04	No	2.00E+05	No
100-K-34_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	5,890	5.20E+04	No	9.06E+05	No
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	913	7.80E+02	Yes	8.40E+02	Yes
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	25,600	--	--	--	--
100-K-34_Shallow	non-Rad	Tin	7440-31-5	ug/kg	480	--	--	--	--
100-K-34_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	490	3.21E+03	No	4.04E+03	No
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	8.51E+04	Yes	1.40E+05	No
100-K-34_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	56,700	6.78E+04	No	3.66E+05	No
100-K-36_Deep_Focused	non-Rad	Antimony	7440-36-0	ug/kg	315	1.30E+02	Yes	3.85E+02	No
100-K-36_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,990	2.00E+04	No	2.77E+04	No
100-K-36_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	169,000	1.32E+05	Yes	4.80E+05	No
100-K-36_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	766	1.51E+03	No	1.00E+04	No
100-K-36_Deep_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,320	3.89E+03	No	5.86E+03	No
100-K-36_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	175	5.63E+02	No	2.98E+03	No
100-K-36_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,700	1.85E+04	No	3.20E+05	No
100-K-36_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	17,900	1.57E+04	Yes	1.10E+05	No
100-K-36_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	32,500	2.20E+04	Yes	6.10E+04	No
100-K-36_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	13,500	1.02E+04	Yes	7.41E+04	No
100-K-36_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	672,000	5.12E+05	Yes	1.11E+06	No
100-K-36_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	27	1.31E+01	Yes	2.92E+01	No
100-K-36_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	852	4.70E+02	Yes	3.17E+03	No
100-K-36_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	20,000	1.91E+04	Yes	2.00E+05	No
100-K-36_Deep_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	4,250	5.20E+04	No	9.06E+05	No
100-K-36_Deep_Focused	non-Rad	Silver	7440-22-4	ug/kg	94	1.67E+02	No	2.73E+02	No
100-K-36_Deep_Focused	non-Rad	Strontium	7440-24-6	ug/kg	83,200	--	--	--	--
100-K-36_Deep_Focused	non-Rad	Tin	7440-31-5	ug/kg	1,210	--	--	--	--
100-K-36_Deep_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1,190	3.21E+03	No	4.04E+03	No
100-K-36_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	102,000	8.51E+04	Yes	1.40E+05	No
100-K-36_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	81,000	6.78E+04	Yes	3.66E+05	No
100-K-36_Deep_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.14	1.10E+00	No	1.51E+00	No
100-K-36_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.14	1.06E+00	No	1.21E+00	No
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,440	2.00E+04	No	2.77E+04	No
100-K-36_Shallow	non-Rad	Barium	7440-39-3	ug/kg	74,300	1.32E+05	No	4.80E+05	No
100-K-36_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	303	1.51E+03	No	1.00E+04	No
100-K-36_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,010	3.89E+03	No	5.86E+03	No
100-K-36_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	77	5.63E+02	No	2.98E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-36_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,310	1.85E+04	No	3.20E+05	No
100-K-36_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,020	1.57E+04	No	1.10E+05	No
100-K-36_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,600	2.20E+04	No	6.10E+04	No
100-K-36_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,980	1.02E+04	No	7.41E+04	No
100-K-36_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	288,000	5.12E+05	No	1.11E+06	No
100-K-36_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	419	4.70E+02	No	3.17E+03	No
100-K-36_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,300	1.91E+04	No	2.00E+05	No
100-K-36_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	18,900	5.20E+04	No	9.06E+05	No
100-K-36_Shallow	non-Rad	Silver	7440-22-4	ug/kg	36	1.67E+02	No	2.73E+02	No
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	32,500	--	--	--	--
100-K-36_Shallow	non-Rad	Tin	7440-31-5	ug/kg	452	--	--	--	--
100-K-36_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	461	3.21E+03	No	4.04E+03	No
100-K-36_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,500	8.51E+04	No	1.40E+05	No
100-K-36_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	42,800	6.78E+04	No	3.66E+05	No
100-K-36_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.19	1.10E+00	No	1.51E+00	No
100-K-36_Shallow	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,884	2.00E+04	No	2.77E+04	No
100-K-4_Deep	non-Rad	Barium	7440-39-3	ug/kg	175,000	1.32E+05	Yes	4.80E+05	No
100-K-4_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	200	1.51E+03	No	1.00E+04	No
100-K-4_Deep	non-Rad	Boron	7440-42-8	ug/kg	17,700	3.89E+03	Yes	5.86E+03	Yes
100-K-4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	3,570	1.85E+04	No	3.20E+05	No
100-K-4_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	8,770	1.57E+04	No	1.10E+05	No
100-K-4_Deep	non-Rad	Copper	7440-50-8	ug/kg	14,000	2.20E+04	No	6.10E+04	No
100-K-4_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,275	1.02E+04	No	7.41E+04	No
100-K-4_Deep	non-Rad	Lithium	7439-93-2	ug/kg	5,130	1.33E+04	No	1.92E+04	No
100-K-4_Deep	non-Rad	Manganese	7439-96-5	ug/kg	353,591	5.12E+05	No	1.11E+06	No
100-K-4_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	385	4.70E+02	No	3.17E+03	No
100-K-4_Deep	non-Rad	Nickel	7440-02-0	ug/kg	6,416	1.91E+04	No	2.00E+05	No
100-K-4_Deep	non-Rad	Selenium	7782-49-2	ug/kg	1,660	7.80E+02	Yes	8.40E+02	Yes
100-K-4_Deep	non-Rad	Strontium	7440-24-6	ug/kg	21,010	--	--	--	--
100-K-4_Deep	non-Rad	Tin	7440-31-5	ug/kg	430	--	--	--	--
100-K-4_Deep	non-Rad	Uranium	7440-61-1	ug/kg	1,030	3.21E+03	No	4.04E+03	No
100-K-4_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	59,126	8.51E+04	No	1.40E+05	No
100-K-4_Deep	non-Rad	Zinc	7440-66-6	ug/kg	37,800	6.78E+04	No	3.66E+05	No
100-K-4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.021	1.05E+00	No	1.64E+00	No
100-K-4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.42	1.10E+00	No	1.51E+00	No
100-K-4_Deep	Rad	Uranium-238	U-238	pCi/g	0.69	1.06E+00	No	1.21E+00	No
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	320	1.30E+02	Yes	3.85E+02	No
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,410	2.00E+04	No	2.77E+04	No
100-K-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	72,700	1.32E+05	No	4.80E+05	No
100-K-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	250	1.51E+03	No	1.00E+04	No
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	16,800	3.89E+03	Yes	5.86E+03	Yes
100-K-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	120	5.63E+02	No	2.98E+03	No
100-K-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	1.85E+04	No	3.20E+05	No
100-K-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,550	1.57E+04	No	1.10E+05	No
100-K-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,000	2.20E+04	No	6.10E+04	No
100-K-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,325	1.02E+04	Yes	7.41E+04	No
100-K-4_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	10,256	1.33E+04	No	1.92E+04	No
100-K-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,000	5.12E+05	No	1.11E+06	No
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	483	4.70E+02	Yes	3.17E+03	No
100-K-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,658	1.91E+04	No	2.00E+05	No
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,510	7.80E+02	Yes	8.40E+02	Yes
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	43,529	--	--	--	--
100-K-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	516	--	--	--	--
100-K-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	640	3.21E+03	No	4.04E+03	No
100-K-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,990	8.51E+04	No	1.40E+05	No
100-K-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	56,213	6.78E+04	No	3.66E+05	No
100-K-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.05E+00	No	1.64E+00	No
100-K-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	1.10E+00	No	1.51E+00	No
100-K-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	1.06E+00	No	1.21E+00	No
100-K-46_Deep	non-Rad	Antimony	7440-36-0	ug/kg	1,180	1.30E+02	Yes	3.85E+02	Yes
100-K-46_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,180	2.00E+04	No	2.77E+04	No
100-K-46_Deep	non-Rad	Barium	7440-39-3	ug/kg	79,500	1.32E+05	No	4.80E+05	No
100-K-46_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	436	1.51E+03	No	1.00E+04	No
100-K-46_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,130	3.89E+03	No	5.86E+03	No
100-K-46_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	78	5.63E+02	No	2.98E+03	No
100-K-46_Deep	non-Rad	Chromium	7440-47-3	ug/kg	21,500	1.85E+04	Yes	3.20E+05	No
100-K-46_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	11,200	1.57E+04	No	1.10E+05	No
100-K-46_Deep	non-Rad	Copper	7440-50-8	ug/kg	79,000	2.20E+04	Yes	6.10E+04	Yes
100-K-46_Deep	non-Rad	Lead	7439-92-1	ug/kg	6,930	1.02E+04	No	7.41E+04	No
100-K-46_Deep	non-Rad	Lithium	7439-93-2	ug/kg	7,110	1.33E+04	No	1.92E+04	No
100-K-46_Deep	non-Rad	Manganese	7439-96-5	ug/kg	416,000	5.12E+05	No	1.11E+06	No
100-K-46_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	1,770	4.70E+02	Yes	3.17E+03	No
100-K-46_Deep	non-Rad	Nickel	7440-02-0	ug/kg	28,300	1.91E+04	Yes	2.00E+05	No
100-K-46_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	4,430	5.20E+04	No	9.06E+05	No
100-K-46_Deep	non-Rad	Silver	7440-22-4	ug/kg	102	1.67E+02	No	2.73E+02	No
100-K-46_Deep	non-Rad	Strontium	7440-24-6	ug/kg	38,000	--	--	--	--
100-K-46_Deep	non-Rad	Tin	7440-31-5	ug/kg	9,720	--	--	--	--
100-K-46_Deep	non-Rad	Uranium	7440-61-1	ug/kg	583	3.21E+03	No	4.04E+03	No
100-K-46_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	41,400	8.51E+04	No	1.40E+05	No
100-K-46_Deep	non-Rad	Zinc	7440-66-6	ug/kg	46,500	6.78E+04	No	3.66E+05	No
100-K-46_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.43	--	--	--	--
100-K-46_Deep	Rad	Carbon-14	14762-75-5	pCi/g	7.6	--	--	--	--
100-K-46_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.2	1.05E+00	Yes	1.64E+00	Yes
100-K-46_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.061	3.78E-03	Yes	1.93E-02	Yes
100-K-46_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	2.48E-02	Yes	3.31E-02	Yes
100-K-46_Deep	Rad	Strontium-90	10098-97-2	pCi/g	0.99	1.78E-01	Yes	3.66E-01	Yes
100-K-46_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-46_Deep	Rad	Uranium-238	U-238	pCi/g	0.15	1.06E+00	No	1.21E+00	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,330	2.00E+04	No	2.77E+04	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Barium	7440-39-3	ug/kg	53,800	1.32E+05	No	4.80E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	253	1.51E+03	No	1.00E+04	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	59	5.63E+02	No	2.98E+03	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Chromium	7440-47-3	ug/kg	3,420	1.85E+04	No	3.20E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	8,660	1.57E+04	No	1.10E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Copper	7440-50-8	ug/kg	14,800	2.20E+04	No	6.10E+04	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Lead	7439-92-1	ug/kg	2,070	1.02E+04	No	7.41E+04	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Manganese	7439-96-5	ug/kg	248,000	5.12E+05	No	1.11E+06	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	332	4.70E+02	No	3.17E+03	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Nickel	7440-02-0	ug/kg	5,810	1.91E+04	No	2.00E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Silver	7440-22-4	ug/kg	27	1.67E+02	No	2.73E+02	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Strontium	7440-24-6	ug/kg	23,600	--	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Tin	7440-31-5	ug/kg	400	--	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Uranium	7440-61-1	ug/kg	389	3.21E+03	No	4.04E+03	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	58,700	8.51E+04	No	1.40E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Zinc	7440-66-6	ug/kg	39,700	6.78E+04	No	3.66E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.17	--	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.67	1.05E+00	No	1.64E+00	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	8.42E-03	Yes	3.87E-02	Yes
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.68	--	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.035	3.78E-03	Yes	1.93E-02	Yes
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.23	2.48E-02	Yes	3.31E-02	Yes
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Strontium-90	10098-97-2	pCi/g	2.8	1.78E-01	Yes	3.66E-01	Yes
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.11	1.10E+00	No	1.51E+00	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-238	U-238	pCi/g	0.12	1.06E+00	No	1.21E+00	No
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	7.8	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	16	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,960	1.30E+02	Yes	3.85E+02	Yes
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.2	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.4	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,752	2.00E+04	No	2.77E+04	No
100-K-50, 1607-K2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,832	1.32E+05	No	4.80E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	169	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	107	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	181	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,384	1.51E+03	No	1.00E+04	No
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9,011	3.89E+03	Yes	5.86E+03	Yes
100-K-50, 1607-K2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,916	1.85E+04	No	3.20E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	208	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,506	1.57E+04	No	1.10E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,182	2.20E+04	No	6.10E+04	No
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	30	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	225	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.3	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	383	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	70	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,809	1.02E+04	No	7.41E+04	No
100-K-50, 1607-K2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	402,821	5.12E+05	No	1.11E+06	No
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	126	1.31E+01	Yes	2.92E+01	Yes
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	565	4.70E+02	Yes	3.17E+03	No
100-K-50, 1607-K2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,105	1.91E+04	No	2.00E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	21,751	5.20E+04	No	9.06E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	223	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	990	7.80E+02	Yes	8.40E+02	Yes
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	785	1.67E+02	Yes	2.73E+02	Yes
100-K-50, 1607-K2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,217	--	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,081	8.51E+04	No	1.40E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	53,702	6.78E+04	No	3.66E+05	No
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,836	2.00E+04	No	2.77E+04	No
100-K-53_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,754	1.32E+05	No	4.80E+05	No
100-K-53_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	335	1.51E+03	No	1.00E+04	No
100-K-53_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	121	5.63E+02	No	2.98E+03	No
100-K-53_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,366	1.85E+04	No	3.20E+05	No
100-K-53_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,340	1.57E+04	No	1.10E+05	No
100-K-53_Shallow	non-Rad	Copper	7440-50-8	ug/kg	28,208	2.20E+04	Yes	6.10E+04	No
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	102	--	--	--	--
100-K-53_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,593	1.02E+04	No	7.41E+04	No
100-K-53_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7,398	1.33E+04	No	1.92E+04	No
100-K-53_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	349,137	5.12E+05	No	1.11E+06	No
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	58	1.31E+01	Yes	2.92E+01	Yes
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	869	4.70E+02	Yes	3.17E+03	No
100-K-53_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,466	1.91E+04	No	2.00E+05	No
100-K-53_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,885	5.20E+04	No	9.06E+05	No
100-K-53_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	749	7.80E+02	No	8.40E+02	No
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	29,344	--	--	--	--
100-K-53_Shallow	non-Rad	Tin	7440-31-5	ug/kg	509	--	--	--	--
100-K-53_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	542	3.21E+03	No	4.04E+03	No
100-K-53_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	75,198	8.51E+04	No	1.40E+05	No
100-K-53_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	54,691	6.78E+04	No	3.66E+05	No
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.05E+00	Yes	1.64E+00	No
100-K-55:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.9	1.05E+00	Yes	1.64E+00	Yes
100-K-55:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.59	8.42E-03	Yes	3.87E-02	Yes
100-K-55:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.78	--	--	--	--
100-K-55:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.29	3.34E-02	Yes	7.90E-02	Yes
100-K-55:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.34	1.05E+00	No	1.64E+00	No
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.027	8.42E-03	Yes	3.87E-02	No
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.33	--	--	--	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	pCi/g	0.099	3.34E-02	Yes	7.90E-02	Yes
100-K-55:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.28	1.05E+00	No	1.64E+00	No
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	8.42E-03	Yes	3.87E-02	Yes
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--	--	--	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.23	3.34E-02	Yes	7.90E-02	Yes
100-K-55:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,313	3.21E+03	No	4.04E+03	No
100-K-55:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.61	1.05E+00	No	1.64E+00	No
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	8.42E-03	Yes	3.87E-02	Yes
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.3	--	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	0.19	3.34E-02	Yes	7.90E-02	Yes
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	0.37	1.78E-01	Yes	3.66E-01	No
100-K-55:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.10E+00	No	1.51E+00	No
100-K-55:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.78	1.06E+00	No	1.21E+00	No
100-K-56:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	26	1.05E+00	Yes	1.64E+00	Yes
100-K-56:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	8.42E-03	Yes	3.87E-02	Yes
100-K-56:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	31	--	--	--	--
100-K-56:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.0	3.34E-02	Yes	7.90E-02	Yes
100-K-56:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.0	1.05E+00	No	1.64E+00	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.14	8.42E-03	Yes	3.87E-02	Yes
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	3.3	--	--	--	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	937	--	--	--	--
100-K-56:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,444	3.21E+03	No	4.04E+03	No
100-K-56:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.31	1.05E+00	No	1.64E+00	No
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	8.42E-03	Yes	3.87E-02	Yes
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	3.1	--	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	0.33	3.34E-02	Yes	7.90E-02	Yes
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	0.50	1.78E-01	Yes	3.66E-01	Yes
100-K-56:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	1.10E+00	No	1.51E+00	No
100-K-56:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.49	1.06E+00	No	1.21E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	354	1.30E+02	Yes	3.85E+02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	2.00E+04	No	2.77E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	65,383	1.32E+05	No	4.80E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	286	1.51E+03	No	1.00E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8,396	3.89E+03	Yes	5.86E+03	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,033	1.85E+04	No	3.20E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,513	1.57E+04	No	1.10E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	17,449	2.20E+04	No	6.10E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	72	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,922	1.02E+04	No	7.41E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lithium	7439-93-2	ug/kg	5,626	1.33E+04	No	1.92E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	351,498	5.12E+05	No	1.11E+06	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	68	1.31E+01	Yes	2.92E+01	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	498	4.70E+02	Yes	3.17E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,205	1.91E+04	No	2.00E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,826	7.80E+02	Yes	8.40E+02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	27,978	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	ug/kg	479	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	448	3.21E+03	No	4.04E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59,056	8.51E+04	No	1.40E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	46,917	6.78E+04	No	3.66E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	8.4	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.31	1.05E+00	No	1.64E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.011	2.48E-02	No	3.31E-02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	0.97	1.78E-01	Yes	3.66E-01	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.019	1.09E-01	No	3.86E-01	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,339	2.00E+04	No	2.77E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	66,573	1.32E+05	No	4.80E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	318	1.51E+03	No	1.00E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	3.89E+03	No	5.86E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	88	5.63E+02	No	2.98E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6,914	1.85E+04	No	3.20E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,853	1.57E+04	No	1.10E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	16,707	2.20E+04	No	6.10E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	7,036	1.02E+04	No	7.41E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lithium	7439-93-2	ug/kg	6,623	1.33E+04	No	1.92E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	317,896	5.12E+05	No	1.11E+06	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	482	4.70E+02	Yes	3.17E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9,860	1.91E+04	No	2.00E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	12,545	5.20E+04	No	9.06E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	270	7.80E+02	No	8.40E+02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	59	1.67E+02	No	2.73E+02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	29,747	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	450	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	518	3.21E+03	No	4.04E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	40,247	8.51E+04	No	1.40E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	40,250	6.78E+04	No	3.66E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	0.23	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	66	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	1.7	1.05E+00	Yes	1.64E+00	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.31	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	0.16	3.34E-02	Yes	7.90E-02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	pCi/g	0.030	3.78E-03	Yes	1.93E-02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.13	2.48E-02	Yes	3.31E-02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	0.79	1.78E-01	Yes	3.66E-01	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.015	1.09E-01	No	3.86E-01	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,925	2.00E+04	No	2.77E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	73,256	1.32E+05	No	4.80E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	422	1.51E+03	No	1.00E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	896	3.89E+03	No	5.86E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	92	5.63E+02	No	2.98E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8,333	1.85E+04	No	3.20E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	11,423	1.57E+04	No	1.10E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	19,939	2.20E+04	No	6.10E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,256	1.02E+04	No	7.41E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lithium	7439-93-2	ug/kg	8,361	1.33E+04	No	1.92E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	376,144	5.12E+05	No	1.11E+06	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	595	4.70E+02	Yes	3.17E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,901	1.91E+04	No	2.00E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6,216	5.20E+04	No	9.06E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	324	7.80E+02	No	8.40E+02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	75	1.67E+02	No	2.73E+02	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	35,177	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	594	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	591	3.21E+03	No	4.04E+03	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	64,300	8.51E+04	No	1.40E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	51,024	6.78E+04	No	3.66E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	pCi/g	2.1	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	139	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	15	1.05E+00	Yes	1.64E+00	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.23	3.78E-03	Yes	1.93E-02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.2	2.48E-02	Yes	3.31E-02	Yes
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	11	1.78E-01	Yes	3.66E-01	Yes

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	5.3	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.18	1.10E+00	No	1.51E+00	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-235	15117-96-1	pCi/g	0.022	1.09E-01	No	3.86E-01	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.18	1.06E+00	No	1.21E+00	No
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,280	2.00E+04	No	2.77E+04	No
100-K-6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,100	1.32E+05	No	4.80E+05	No
100-K-6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	339	1.51E+03	No	1.00E+04	No
100-K-6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	5.63E+02	No	2.98E+03	No
100-K-6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,290	1.85E+04	No	3.20E+05	No
100-K-6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,310	1.57E+04	No	1.10E+05	No
100-K-6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,700	2.20E+04	No	6.10E+04	No
100-K-6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,070	1.02E+04	No	7.41E+04	No
100-K-6_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7,300	1.33E+04	No	1.92E+04	No
100-K-6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,000	5.12E+05	No	1.11E+06	No
100-K-6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	270	4.70E+02	No	3.17E+03	No
100-K-6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7,270	1.91E+04	No	2.00E+05	No
100-K-6_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	281	7.80E+02	No	8.40E+02	No
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	30,800	--	--	--	--
100-K-6_Shallow	non-Rad	Tin	7440-31-5	ug/kg	477	--	--	--	--
100-K-6_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	477	3.21E+03	No	4.04E+03	No
100-K-6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,300	8.51E+04	No	1.40E+05	No
100-K-6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,700	6.78E+04	No	3.66E+05	No
100-K-6_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.055	--	--	--	--
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	35	--	--	--	--
100-K-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.51	1.05E+00	No	1.64E+00	No
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.042	2.48E-02	Yes	3.31E-02	Yes
100-K-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.16	1.10E+00	No	1.51E+00	No
100-K-6_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.019	1.09E-01	No	3.86E-01	No
100-K-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	1.06E+00	No	1.21E+00	No
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,290	2.00E+04	No	2.77E+04	No
100-K-62_Shallow	non-Rad	Barium	7440-39-3	ug/kg	50,500	1.32E+05	No	4.80E+05	No
100-K-62_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	228	1.51E+03	No	1.00E+04	No
100-K-62_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	55	5.63E+02	No	2.98E+03	No
100-K-62_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	3,950	1.85E+04	No	3.20E+05	No
100-K-62_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,370	1.57E+04	No	1.10E+05	No
100-K-62_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,900	2.20E+04	No	6.10E+04	No
100-K-62_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,330	1.02E+04	No	7.41E+04	No
100-K-62_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	2,900	1.33E+04	No	1.92E+04	No
100-K-62_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	261,000	5.12E+05	No	1.11E+06	No
100-K-62_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	303	4.70E+02	No	3.17E+03	No
100-K-62_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5,970	1.91E+04	No	2.00E+05	No
100-K-62_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	312	7.80E+02	No	8.40E+02	No
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	22,900	--	--	--	--
100-K-62_Shallow	non-Rad	Tin	7440-31-5	ug/kg	383	--	--	--	--
100-K-62_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	357	3.21E+03	No	4.04E+03	No
100-K-62_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	47,000	8.51E+04	No	1.40E+05	No
100-K-62_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	35,000	6.78E+04	No	3.66E+05	No
100-K-62_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.17	--	--	--	--
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	20	--	--	--	--
100-K-62_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.84	1.05E+00	No	1.64E+00	No
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.036	3.78E-03	Yes	1.93E-02	Yes
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	2.48E-02	Yes	3.31E-02	Yes
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	0.76	1.78E-01	Yes	3.66E-01	Yes
100-K-62_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.12	1.10E+00	No	1.51E+00	No
100-K-62_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.013	1.09E-01	No	3.86E-01	No
100-K-62_Shallow	Rad	Uranium-238	U-238	pCi/g	0.16	1.06E+00	No	1.21E+00	No
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	190	1.30E+02	Yes	3.85E+02	No
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,008	2.00E+04	No	2.77E+04	No
100-K-63_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	69,197	1.32E+05	No	4.80E+05	No
100-K-63_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	345	1.51E+03	No	1.00E+04	No
100-K-63_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,954	3.89E+03	No	5.86E+03	No
100-K-63_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	189	5.63E+02	No	2.98E+03	No
100-K-63_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,051	1.85E+04	No	3.20E+05	No
100-K-63_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,147	1.57E+04	No	1.10E+05	No
100-K-63_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	19,275	2.20E+04	No	6.10E+04	No
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	152	--	--	--	--
100-K-63_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,659	1.02E+04	No	7.41E+04	No
100-K-63_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	362,077	5.12E+05	No	1.11E+06	No
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	14	1.31E+01	Yes	2.92E+01	No
100-K-63_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	450	4.70E+02	No	3.17E+03	No
100-K-63_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,324	1.91E+04	No	2.00E+05	No
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,290	7.80E+02	Yes	8.40E+02	Yes
100-K-63_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	55	1.67E+02	No	2.73E+02	No
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	27,553	--	--	--	--
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	937	--	--	--	--
100-K-63_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	516	3.21E+03	No	4.04E+03	No
100-K-63_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	55,351	8.51E+04	No	1.40E+05	No
100-K-63_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,669	6.78E+04	No	3.66E+05	No
100-K-63_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.31	1.05E+00	No	1.64E+00	No
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.023	8.42E-03	Yes	3.87E-02	No
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.19	--	--	--	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	0.16	3.34E-02	Yes	7.90E-02	Yes
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	pCi/g	0.20	5.39E-02	Yes	9.84E-02	Yes
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	2.1	1.78E-01	Yes	3.66E-01	Yes
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	316	1.30E+02	Yes	3.85E+02	No
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,876	2.00E+04	No	2.77E+04	No
100-K-63_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	78,317	1.32E+05	No	4.80E+05	No
100-K-63_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	353	1.51E+03	No	1.00E+04	No
100-K-63_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,021	3.89E+03	No	5.86E+03	No
100-K-63_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	178	5.63E+02	No	2.98E+03	No
100-K-63_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	17,235	1.85E+04	No	3.20E+05	No
100-K-63_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,831	1.57E+04	No	1.10E+05	No
100-K-63_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	16,680	2.20E+04	No	6.10E+04	No
100-K-63_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,047	1.02E+04	Yes	7.41E+04	No
100-K-63_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328,776	5.12E+05	No	1.11E+06	No
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	675	4.70E+02	Yes	3.17E+03	No
100-K-63_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	15,105	1.91E+04	No	2.00E+05	No
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	874	7.80E+02	Yes	8.40E+02	Yes

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	56,140	--	--	--	--
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	467	--	--	--	--
100-K-63_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	690	3.21E+03	No	4.04E+03	No
100-K-63_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	47,404	8.51E+04	No	1.40E+05	No
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	70,136	6.78E+04	Yes	3.66E+05	No
100-K-63_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.41	1.05E+00	No	1.64E+00	No
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.041	8.42E-03	Yes	3.87E-02	Yes
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.091	--	--	--	--
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	0.14	3.34E-02	Yes	7.90E-02	Yes
100-K-63_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	0.16	1.78E-01	No	3.66E-01	No
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	57	--	--	--	--
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	6.2	--	--	--	--
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,110	1.30E+02	Yes	3.85E+02	Yes
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,888	2.00E+04	No	2.77E+04	No
100-K-77_Shallow	non-Rad	Barium	7440-39-3	ug/kg	84,028	1.32E+05	No	4.80E+05	No
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	13	--	--	--	--
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	15	--	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.2	--	--	--	--
100-K-77_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	410	1.51E+03	No	1.00E+04	No
100-K-77_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	277	5.63E+02	No	2.98E+03	No
100-K-77_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,273	1.85E+04	No	3.20E+05	No
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--	--	--	--
100-K-77_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,800	1.57E+04	No	1.10E+05	No
100-K-77_Shallow	non-Rad	Copper	7440-50-8	ug/kg	18,900	2.20E+04	No	6.10E+04	No
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--	--	--	--
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.8	--	--	--	--
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	--	--	--	--
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--	--	--	--
100-K-77_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,200	1.02E+04	No	7.41E+04	No
100-K-77_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12,203	1.33E+04	No	1.92E+04	No
100-K-77_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	440,000	5.12E+05	No	1.11E+06	No
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,389	4.70E+02	Yes	3.17E+03	No
100-K-77_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,419	1.91E+04	No	2.00E+05	No
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	42	--	--	--	--
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	927	7.80E+02	Yes	8.40E+02	Yes
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	40,917	--	--	--	--
100-K-77_Shallow	non-Rad	Tin	7440-31-5	ug/kg	2,160	--	--	--	--
100-K-77_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	771	3.21E+03	No	4.04E+03	No
100-K-77_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,900	8.51E+04	No	1.40E+05	No
100-K-77_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	58,200	6.78E+04	No	3.66E+05	No
100-K-77_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.47	1.05E+00	No	1.64E+00	No
100-K-78_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.08E+07	1.18E+07	No	2.88E+07	No
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	391	1.30E+02	Yes	3.85E+02	Yes
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,330	2.00E+04	No	2.77E+04	No
100-K-78_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	85,300	1.32E+05	No	4.80E+05	No
100-K-78_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	357	1.51E+03	No	1.00E+04	No
100-K-78_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,570	3.89E+03	No	5.86E+03	No
100-K-78_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	136	5.63E+02	No	2.98E+03	No
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	30,000	1.85E+04	Yes	3.20E+05	No
100-K-78_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,110	1.57E+04	No	1.10E+05	No
100-K-78_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,500	2.20E+04	No	6.10E+04	No
100-K-78_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.96E+07	3.26E+07	No	6.81E+07	No
100-K-78_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,380	1.02E+04	No	7.41E+04	No
100-K-78_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	288,000	5.12E+05	No	1.11E+06	No
100-K-78_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	452	4.70E+02	No	3.17E+03	No
100-K-78_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,800	1.91E+04	No	2.00E+05	No
100-K-78_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,774	3.21E+03	No	4.04E+03	No
100-K-78_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,900	8.51E+04	No	1.40E+05	No
100-K-78_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,000	6.78E+04	No	3.66E+05	No
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.7	--	--	--	--
100-K-78_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.32	1.05E+00	No	1.64E+00	No
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.073	8.42E-03	Yes	3.87E-02	Yes
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.27	--	--	--	--
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.84	1.10E+00	No	1.51E+00	No
100-K-78_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.048	1.09E-01	No	3.86E-01	No
100-K-78_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.93	1.06E+00	No	1.21E+00	No
100-K-84_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.24E+06	1.18E+07	No	2.88E+07	No
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,390	2.00E+04	No	2.77E+04	No
100-K-84_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,104	1.32E+05	No	4.80E+05	No
100-K-84_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	555	1.51E+03	No	1.00E+04	No
100-K-84_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,361	3.89E+03	No	5.86E+03	No
100-K-84_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	66	5.63E+02	No	2.98E+03	No
100-K-84_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,253	1.85E+04	No	3.20E+05	No
100-K-84_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,127	1.57E+04	No	1.10E+05	No
100-K-84_Shallow	non-Rad	Copper	7440-50-8	ug/kg	24,206	2.20E+04	Yes	6.10E+04	No
100-K-84_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.49E+07	3.26E+07	No	6.81E+07	No
100-K-84_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,746	1.02E+04	No	7.41E+04	No
100-K-84_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339,331	5.12E+05	No	1.11E+06	No
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	493	1.31E+01	Yes	2.92E+01	Yes
100-K-84_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	345	4.70E+02	No	3.17E+03	No
100-K-84_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,755	1.91E+04	No	2.00E+05	No
100-K-84_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	58,919	8.51E+04	No	1.40E+05	No
100-K-84_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,211	6.78E+04	No	3.66E+05	No
100-K-85_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	1.18E+07	No	2.88E+07	No
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
100-K-85_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	56,700	1.32E+05	No	4.80E+05	No
100-K-85_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	230	1.51E+03	No	1.00E+04	No
100-K-85_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	3.89E+03	No	5.86E+03	No
100-K-85_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	62	5.63E+02	No	2.98E+03	No
100-K-85_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	1.85E+04	No	3.20E+05	No
100-K-85_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	1.57E+04	No	1.10E+05	No
100-K-85_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,100	2.20E+04	No	6.10E+04	No
100-K-85_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.26E+07	No	6.81E+07	No
100-K-85_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,800	1.02E+04	No	7.41E+04	No
100-K-85_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	327,000	5.12E+05	No	1.11E+06	No
100-K-85_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	9.9	1.31E+01	No	2.92E+01	No
100-K-85_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	360	4.70E+02	No	3.17E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-85_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,900	1.91E+04	No	2.00E+05	No
100-K-85_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,800	8.51E+04	No	1.40E+05	No
100-K-85_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	6.78E+04	No	3.66E+05	No
100-K-86_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.78E+06	1.18E+07	No	2.88E+07	No
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	1.30E+02	Yes	3.85E+02	Yes
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
100-K-86_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	76,100	1.32E+05	No	4.80E+05	No
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	10	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	430	1.51E+03	No	1.00E+04	No
100-K-86_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,900	3.89E+03	No	5.86E+03	No
100-K-86_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	58	5.63E+02	No	2.98E+03	No
100-K-86_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	1.85E+04	No	3.20E+05	No
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	17	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	1.57E+04	No	1.10E+05	No
100-K-86_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,500	2.20E+04	No	6.10E+04	No
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.38E+07	3.26E+07	No	6.81E+07	No
100-K-86_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,000	1.02E+04	No	7.41E+04	No
100-K-86_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399,000	5.12E+05	No	1.11E+06	No
100-K-86_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	4.70E+02	No	3.17E+03	No
100-K-86_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,500	1.91E+04	No	2.00E+05	No
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	43	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	84,000	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,900	8.51E+04	No	1.40E+05	No
100-K-86_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,800	6.78E+04	No	3.66E+05	No
100-K-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.35E+06	1.18E+07	No	2.88E+07	No
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	890	1.30E+02	Yes	3.85E+02	Yes
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9,100	2.00E+04	No	2.77E+04	No
100-K-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	103,000	1.32E+05	No	4.80E+05	No
100-K-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	210	1.51E+03	No	1.00E+04	No
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9,500	3.89E+03	Yes	5.86E+03	Yes
100-K-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,400	1.85E+04	No	3.20E+05	No
100-K-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,400	1.57E+04	No	1.10E+05	No
100-K-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,000	2.20E+04	No	6.10E+04	No
100-K-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.34E+07	3.26E+07	No	6.81E+07	No
100-K-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,100	1.02E+04	Yes	7.41E+04	No
100-K-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	258,000	5.12E+05	No	1.11E+06	No
100-K-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.2	1.31E+01	No	2.92E+01	No
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	980	4.70E+02	Yes	3.17E+03	No
100-K-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,100	1.91E+04	No	2.00E+05	No
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	7.80E+02	Yes	8.40E+02	Yes
100-K-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,600	8.51E+04	No	1.40E+05	No
100-K-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,100	6.78E+04	No	3.66E+05	No
100-K-89, 600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	1.18E+07	No	2.88E+07	No
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	434	1.30E+02	Yes	3.85E+02	Yes
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,084	2.00E+04	No	2.77E+04	No
100-K-89, 600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,487	1.32E+05	No	4.80E+05	No
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	65	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	686	1.51E+03	No	1.00E+04	No
100-K-89, 600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,117	3.89E+03	No	5.86E+03	No
100-K-89, 600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	88	5.63E+02	No	2.98E+03	No
100-K-89, 600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,216	1.85E+04	No	3.20E+05	No
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,924	1.57E+04	No	1.10E+05	No
100-K-89, 600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,869	2.20E+04	No	6.10E+04	No
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	88	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.26E+07	No	6.81E+07	No
100-K-89, 600-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,445	1.02E+04	No	7.41E+04	No
100-K-89, 600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	406,274	5.12E+05	No	1.11E+06	No
100-K-89, 600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.7	1.31E+01	No	2.92E+01	No
100-K-89, 600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	270	4.70E+02	No	3.17E+03	No
100-K-89, 600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,496	1.91E+04	No	2.00E+05	No
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	63	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	896	7.80E+02	Yes	8.40E+02	Yes
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	31,656	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,899	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60,142	8.51E+04	No	1.40E+05	No
100-K-89, 600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	47,545	6.78E+04	No	3.66E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	1.18E+07	No	2.88E+07	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	26	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4,100	1.30E+02	Yes	3.85E+02	Yes
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	15,400	2.00E+04	No	2.77E+04	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84,500	1.32E+05	No	4.80E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	190	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	100	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	260	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	710	1.51E+03	No	1.00E+04	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,500	3.89E+03	No	5.86E+03	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	5.63E+02	No	2.98E+03	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,200	1.85E+04	No	3.20E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	250	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,600	1.57E+04	No	1.10E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,500	2.20E+04	Yes	6.10E+04	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	530	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	3.26E+07	No	6.81E+07	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	22,900	1.02E+04	Yes	7.41E+04	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	410,000	5.12E+05	No	1.11E+06	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	1.31E+01	Yes	2.92E+01	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	4.70E+02	No	3.17E+03	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,800	1.91E+04	No	2.00E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	440	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	7.80E+02	Yes	8.40E+02	Yes

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	90,000	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	140,000	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	8.51E+04	No	1.40E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	124,000	6.78E+04	Yes	3.66E+05	No
100-K-90_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.65E+06	1.18E+07	No	2.88E+07	No
100-K-90_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	17,000	1.32E+05	No	4.80E+05	No
100-K-90_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	58	1.51E+03	No	1.00E+04	No
100-K-90_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1,400	1.85E+04	No	3.20E+05	No
100-K-90_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1,600	1.57E+04	No	1.10E+05	No
100-K-90_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3,600	2.20E+04	No	6.10E+04	No
100-K-90_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	4.25E+06	3.26E+07	No	6.81E+07	No
100-K-90_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	1.02E+04	No	7.41E+04	No
100-K-90_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	61,700	5.12E+05	No	1.11E+06	No
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	1.31E+01	Yes	2.92E+01	No
100-K-90_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	350	4.70E+02	No	3.17E+03	No
100-K-90_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1,900	1.91E+04	No	2.00E+05	No
100-K-90_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	11,000	8.51E+04	No	1.40E+05	No
100-K-90_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	14,100	6.78E+04	No	3.66E+05	No
100-K-91_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	1.18E+07	No	2.88E+07	No
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	2.00E+04	No	2.77E+04	No
100-K-91_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,100	1.32E+05	No	4.80E+05	No
100-K-91_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	320	1.51E+03	No	1.00E+04	No
100-K-91_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,000	3.89E+03	No	5.86E+03	No
100-K-91_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,800	1.85E+04	No	3.20E+05	No
100-K-91_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,800	1.57E+04	No	1.10E+05	No
100-K-91_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,500	2.20E+04	No	6.10E+04	No
100-K-91_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	3.26E+07	No	6.81E+07	No
100-K-91_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,300	1.02E+04	No	7.41E+04	No
100-K-91_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	291,000	5.12E+05	No	1.11E+06	No
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2,700	1.31E+01	Yes	2.92E+01	Yes
100-K-91_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,600	1.91E+04	No	2.00E+05	No
100-K-91_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	36,800	8.51E+04	No	1.40E+05	No
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	113,000	6.78E+04	Yes	3.66E+05	No
100-K-92_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.86E+06	1.18E+07	No	2.88E+07	No
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	2.00E+04	No	2.77E+04	No
100-K-92_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,900	1.32E+05	No	4.80E+05	No
100-K-92_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	390	1.51E+03	No	1.00E+04	No
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	76	--	--	--	--
100-K-92_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,300	3.89E+03	No	5.86E+03	No
100-K-92_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	140	5.63E+02	No	2.98E+03	No
100-K-92_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,600	1.85E+04	No	3.20E+05	No
100-K-92_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,800	1.57E+04	No	1.10E+05	No
100-K-92_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,500	2.20E+04	No	6.10E+04	No
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	216	--	--	--	--
100-K-92_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.09E+07	3.26E+07	No	6.81E+07	No
100-K-92_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,300	1.02E+04	No	7.41E+04	No
100-K-92_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	362,000	5.12E+05	No	1.11E+06	No
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,700	4.70E+02	Yes	3.17E+03	No
100-K-92_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	1.91E+04	No	2.00E+05	No
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	14,000	--	--	--	--
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	29,000	--	--	--	--
100-K-92_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	8.51E+04	No	1.40E+05	No
100-K-92_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,100	6.78E+04	No	3.66E+05	No
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	19	--	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	54	--	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--	--	--	--
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	45	--	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	18	--	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	59	--	--	--	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	119	--	--	--	--
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	8.9	--	--	--	--
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20	--	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	16	--	--	--	--
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	104	--	--	--	--
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	38,541	--	--	--	--
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	39,020	--	--	--	--
116-K-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	14,607	1.85E+04	No	3.20E+05	No
116-K-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	560	--	--	--	--
116-K-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	15	1.05E+00	Yes	1.64E+00	Yes
116-K-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.5	8.42E-03	Yes	3.87E-02	Yes
116-K-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.5	--	--	--	--
116-K-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.0	3.34E-02	Yes	7.90E-02	Yes
116-K-1_Deep	Rad	Strontium-90	10098-97-2	pCi/g	8.6	1.78E-01	Yes	3.66E-01	Yes
116-K-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,619	1.85E+04	No	3.20E+05	No
116-K-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.28	1.05E+00	No	1.64E+00	No
116-K-1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.26	--	--	--	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	0.79	1.78E-01	Yes	3.66E-01	Yes
116-K-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,705	1.85E+04	No	3.20E+05	No
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	260	--	--	--	--
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.05E+00	Yes	1.64E+00	No
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.038	8.42E-03	Yes	3.87E-02	No
116-K-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.23	--	--	--	--
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	1.7	1.78E-01	Yes	3.66E-01	Yes
116-K-2_Deep_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6,056	--	--	--	--
116-K-2_Deep_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,181	3.21E+03	No	4.04E+03	No
116-K-2_Deep_1	Rad	Americium-241	14596-10-2	pCi/g	4.9	--	--	--	--
116-K-2_Deep_1	Rad	Carbon-14	14762-75-5	pCi/g	2.0	--	--	--	--
116-K-2_Deep_1	Rad	Cesium-137	10045-97-3	pCi/g	140	1.05E+00	Yes	1.64E+00	Yes
116-K-2_Deep_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.8	8.42E-03	Yes	3.87E-02	Yes
116-K-2_Deep_1	Rad	Europium-152	14683-23-9	pCi/g	69	--	--	--	--
116-K-2_Deep_1	Rad	Europium-154	15585-10-1	pCi/g	6.2	3.34E-02	Yes	7.90E-02	Yes
116-K-2_Deep_1	Rad	Nickel-63	13981-37-8	pCi/g	995	--	--	--	--
116-K-2_Deep_1	Rad	Plutonium-238	13981-16-3	pCi/g	0.72	3.78E-03	Yes	1.93E-02	Yes
116-K-2_Deep_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.9	2.48E-02	Yes	3.31E-02	Yes
116-K-2_Deep_1	Rad	Strontium-90	10098-97-2	pCi/g	7.7	1.78E-01	Yes	3.66E-01	Yes
116-K-2_Deep_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.86	1.10E+00	No	1.51E+00	No
116-K-2_Deep_1	Rad	Uranium-235	15117-96-1	pCi/g	0.044	1.09E-01	No	3.86E-01	No
116-K-2_Deep_1	Rad	Uranium-238	U-238	pCi/g	0.73	1.06E+00	No	1.21E+00	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
116-K-2_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,688	--	--	--	--
116-K-2_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,180	3.21E+03	No	4.04E+03	No
116-K-2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	3.9	--	--	--	--
116-K-2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	4.6	--	--	--	--
116-K-2_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	144	1.05E+00	Yes	1.64E+00	Yes
116-K-2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.4	8.42E-03	Yes	3.87E-02	Yes
116-K-2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	82	--	--	--	--
116-K-2_Deep_2	Rad	Europium-154	15585-10-1	pCi/g	12	3.34E-02	Yes	7.90E-02	Yes
116-K-2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	659	--	--	--	--
116-K-2_Deep_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.24	3.78E-03	Yes	1.93E-02	Yes
116-K-2_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	6.0	2.48E-02	Yes	3.31E-02	Yes
116-K-2_Deep_2	Rad	Strontium-90	10098-97-2	pCi/g	6.7	1.78E-01	Yes	3.66E-01	Yes
116-K-2_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.75	1.10E+00	No	1.51E+00	No
116-K-2_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.73	1.06E+00	No	1.21E+00	No
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	292	--	--	--	--
116-K-2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,027	3.21E+03	No	4.04E+03	No
116-K-2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.094	1.05E+00	No	1.64E+00	No
116-K-2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.19	--	--	--	--
116-K-2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.10E+00	No	1.51E+00	No
116-K-2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.68	1.06E+00	No	1.21E+00	No
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	670	--	--	--	--
116-K-2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,823	3.21E+03	No	4.04E+03	No
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	3.0	--	--	--	--
116-K-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.63	1.05E+00	No	1.64E+00	No
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.35	--	--	--	--
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--	--	--	--
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	0.19	1.78E-01	Yes	3.66E-01	No
116-K-2_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.10E+00	No	1.51E+00	No
116-K-2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.61	1.06E+00	No	1.21E+00	No
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	250	--	--	--	--
116-K-2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,988	3.21E+03	No	4.04E+03	No
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.0	1.05E+00	Yes	1.64E+00	Yes
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.68	--	--	--	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	0.17	3.34E-02	Yes	7.90E-02	Yes
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--	--	--	--
116-K-2_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	0.15	1.78E-01	No	3.66E-01	No
116-K-2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	1.10E+00	No	1.51E+00	No
116-K-2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.67	1.06E+00	No	1.21E+00	No
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,211	--	--	--	--
116-KE-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,660	3.21E+03	No	4.04E+03	No
116-KE-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.22	1.05E+00	No	1.64E+00	No
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.086	8.42E-03	Yes	3.87E-02	Yes
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69	--	--	--	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.19	3.34E-02	Yes	7.90E-02	Yes
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--	--	--	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	0.21	1.78E-01	Yes	3.66E-01	No
116-KE-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.10E+00	No	1.51E+00	No
116-KE-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.020	1.09E-01	No	3.86E-01	No
116-KE-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.56	1.06E+00	No	1.21E+00	No
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No	2.77E+04	No
116-KE-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	100,000	1.32E+05	No	4.80E+05	No
116-KE-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	195	5.63E+02	No	2.98E+03	No
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	30,000	1.85E+04	Yes	3.20E+05	No
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	59,038	--	--	--	--
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	330	--	--	--	--
116-KE-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,300	1.02E+04	Yes	7.41E+04	No
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	102	1.31E+01	Yes	2.92E+01	Yes
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	543	--	--	--	--
116-KW-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,924	3.21E+03	No	4.04E+03	No
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.53	--	--	--	--
116-KW-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.18	1.05E+00	No	1.64E+00	No
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	8.42E-03	Yes	3.87E-02	Yes
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--	--	--	--
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.26	3.34E-02	Yes	7.90E-02	Yes
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.92	2.48E-02	Yes	3.31E-02	Yes
116-KW-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.10E+00	No	1.51E+00	No
116-KW-3_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039	1.09E-01	No	3.86E-01	No
116-KW-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	1.06E+00	No	1.21E+00	No
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	2.00E+04	No	2.77E+04	No
116-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,300	1.32E+05	No	4.80E+05	No
116-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,100	1.85E+04	No	3.20E+05	No
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	--	--	--	--
116-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,500	1.02E+04	No	7.41E+04	No
118-K-1_Overburden_12	non-Rad	Aluminum	7429-90-5	ug/kg	9.09E+06	1.18E+07	No	2.88E+07	No
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No	2.77E+04	No
118-K-1_Overburden_12	non-Rad	Barium	7440-39-3	ug/kg	71,962	1.32E+05	No	4.80E+05	No
118-K-1_Overburden_12	non-Rad	Beryllium	7440-41-7	ug/kg	353	1.51E+03	No	1.00E+04	No
118-K-1_Overburden_12	non-Rad	Boron	7440-42-8	ug/kg	1,688	3.89E+03	No	5.86E+03	No
118-K-1_Overburden_12	non-Rad	Cadmium	7440-43-9	ug/kg	112	5.63E+02	No	2.98E+03	No
118-K-1_Overburden_12	non-Rad	Chromium	7440-47-3	ug/kg	10,588	1.85E+04	No	3.20E+05	No
118-K-1_Overburden_12	non-Rad	Cobalt	7440-48-4	ug/kg	8,715	1.57E+04	No	1.10E+05	No
118-K-1_Overburden_12	non-Rad	Copper	7440-50-8	ug/kg	17,707	2.20E+04	No	6.10E+04	No
118-K-1_Overburden_12	non-Rad	Iron	7439-89-6	ug/kg	2.78E+07	3.26E+07	No	6.81E+07	No
118-K-1_Overburden_12	non-Rad	Lead	7439-92-1	ug/kg	4,500	1.02E+04	No	7.41E+04	No
118-K-1_Overburden_12	non-Rad	Manganese	7439-96-5	ug/kg	392,000	5.12E+05	No	1.11E+06	No
118-K-1_Overburden_12	non-Rad	Molybdenum	7439-98-7	ug/kg	466	4.70E+02	No	3.17E+03	No
118-K-1_Overburden_12	non-Rad	Nickel	7440-02-0	ug/kg	9,880	1.91E+04	No	2.00E+05	No
118-K-1_Overburden_12	non-Rad	Vanadium	7440-62-2	ug/kg	74,257	8.51E+04	No	1.40E+05	No
118-K-1_Overburden_12	non-Rad	Zinc	7440-66-6	ug/kg	51,000	6.78E+04	No	3.66E+05	No
118-K-1_Overburden_12	Rad	Cesium-137	10045-97-3	pCi/g	0.11	1.05E+00	No	1.64E+00	No
118-K-1_Overburden_13	non-Rad	Aluminum	7429-90-5	ug/kg	9.44E+06	1.18E+07	No	2.88E+07	No
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	ug/kg	2,760	2.00E+04	No	2.77E+04	No
118-K-1_Overburden_13	non-Rad	Barium	7440-39-3	ug/kg	70,500	1.32E+05	No	4.80E+05	No
118-K-1_Overburden_13	non-Rad	Beryllium	7440-41-7	ug/kg	343	1.51E+03	No	1.00E+04	No
118-K-1_Overburden_13	non-Rad	Boron	7440-42-8	ug/kg	1,680	3.89E+03	No	5.86E+03	No
118-K-1_Overburden_13	non-Rad	Cadmium	7440-43-9	ug/kg	112	5.63E+02	No	2.98E+03	No
118-K-1_Overburden_13	non-Rad	Chromium	7440-47-3	ug/kg	10,600	1.85E+04	No	3.20E+05	No
118-K-1_Overburden_13	non-Rad	Cobalt	7440-48-4	ug/kg	7,380	1.57E+04	No	1.10E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_Overburden_13	non-Rad	Copper	7440-50-8	ug/kg	15,100	2.20E+04	No	6.10E+04	No
118-K-1_Overburden_13	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	3.26E+07	No	6.81E+07	No
118-K-1_Overburden_13	non-Rad	Lead	7439-92-1	ug/kg	4,980	1.02E+04	No	7.41E+04	No
118-K-1_Overburden_13	non-Rad	Manganese	7439-96-5	ug/kg	373,000	5.12E+05	No	1.11E+06	No
118-K-1_Overburden_13	non-Rad	Molybdenum	7439-98-7	ug/kg	424	4.70E+02	No	3.17E+03	No
118-K-1_Overburden_13	non-Rad	Nickel	7440-02-0	ug/kg	10,500	1.91E+04	No	2.00E+05	No
118-K-1_Overburden_13	non-Rad	Vanadium	7440-62-2	ug/kg	64,600	8.51E+04	No	1.40E+05	No
118-K-1_Overburden_13	non-Rad	Zinc	7440-66-6	ug/kg	49,500	6.78E+04	No	3.66E+05	No
118-K-1_Overburden_13	Rad	Cesium-137	10045-97-3	pCi/g	0.084	1.05E+00	No	1.64E+00	No
118-K-1_P1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	61,500	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	600	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	200	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,000	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	17,875	2.20E+04	No	6.10E+04	No
118-K-1_P1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.86E+07	3.26E+07	No	6.81E+07	No
118-K-1_P1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,680	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	366,000	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	588	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,600	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	73,527	8.51E+04	No	1.40E+05	No
118-K-1_P1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	56,000	6.78E+04	No	3.66E+05	No
118-K-1_P1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.68E+06	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,288	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	74,500	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	388	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,600	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	288	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,792	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,972	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	22,271	2.20E+04	Yes	6.10E+04	No
118-K-1_P1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	3.26E+07	No	6.81E+07	No
118-K-1_P1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,680	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	389,000	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	776	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	13,200	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	71,916	8.51E+04	No	1.40E+05	No
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	75,395	6.78E+04	Yes	3.66E+05	No
118-K-1_P1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.18	1.05E+00	No	1.64E+00	No
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.33	--	--	--	--
118-K-1_P1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	8.17E+06	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,819	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	66,135	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	700	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,425	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	200	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	11,165	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,800	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	16,900	2.20E+04	No	6.10E+04	No
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	3.36E+07	3.26E+07	Yes	6.81E+07	No
118-K-1_P1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,143	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	391,000	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	588	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	11,000	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	90,500	8.51E+04	Yes	1.40E+05	No
118-K-1_P1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	60,700	6.78E+04	No	3.66E+05	No
118-K-1_P1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.03E+07	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	ug/kg	400	1.30E+02	Yes	3.85E+02	Yes
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,303	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	88,103	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	725	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	2,411	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	337	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,500	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,924	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	19,645	2.20E+04	No	6.10E+04	No
118-K-1_P1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.57E+07	3.26E+07	No	6.81E+07	No
118-K-1_P1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	6,506	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	400,414	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	10	1.31E+01	No	2.92E+01	No
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	746	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	13,367	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	65,733	8.51E+04	No	1.40E+05	No
118-K-1_P1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	56,062	6.78E+04	No	3.66E+05	No
118-K-1_P1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	0.32	1.05E+00	No	1.64E+00	No
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	0.13	--	--	--	--
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	pCi/g	5.6	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	9.57E+06	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,708	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	72,800	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	700	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,900	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	200	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,800	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	10,275	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	19,400	2.20E+04	No	6.10E+04	No
118-K-1_P1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	3.26E+07	No	6.81E+07	No
118-K-1_P1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	5,650	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	416,000	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0	--	--	--	--
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	600	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	13,483	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	77,441	5.20E+04	Yes	9.06E+05	No
118-K-1_P1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,355	3.21E+03	No	4.04E+03	No
118-K-1_P1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	74,400	8.51E+04	No	1.40E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	58,098	6.78E+04	No	3.66E+05	No
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.5	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	pCi/g	0.082	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.073	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	pCi/g	0.86	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P1_Shallow_5	Rad	Uranium-233/234	U-233/234	pCi/g	1.0	1.10E+00	No	1.51E+00	No
118-K-1_P1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.79	1.06E+00	No	1.21E+00	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.76E+06	1.18E+07	No	2.88E+07	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	2.00E+04	No	2.77E+04	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	68,600	1.32E+05	No	4.80E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	400	1.51E+03	No	1.00E+04	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	1,300	3.89E+03	No	5.86E+03	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	200	5.63E+02	No	2.98E+03	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	10,500	1.85E+04	No	3.20E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,800	1.57E+04	No	1.10E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	21,200	2.20E+04	No	6.10E+04	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.82E+07	3.26E+07	No	6.81E+07	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	6,600	1.02E+04	No	7.41E+04	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	408,000	5.12E+05	No	1.11E+06	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.0	--	--	--	--
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	600	4.70E+02	Yes	3.17E+03	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	11,400	1.91E+04	No	2.00E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	18,100	5.20E+04	No	9.06E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,724	3.21E+03	No	4.04E+03	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	69,700	8.51E+04	No	1.40E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	57,500	6.78E+04	No	3.66E+05	No
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.093	--	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.7	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.087	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	2.0	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	1.10E+00	No	1.51E+00	No
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.046	1.09E-01	No	3.86E-01	No
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.57	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_2	non-Rad	Aluminum	7429-90-5	ug/kg	4.93E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,380	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_2	non-Rad	Barium	7440-39-3	ug/kg	50,741	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_2	non-Rad	Beryllium	7440-41-7	ug/kg	235	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_2	non-Rad	Boron	7440-42-8	ug/kg	648	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_2	non-Rad	Cadmium	7440-43-9	ug/kg	119	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_2	non-Rad	Chromium	7440-47-3	ug/kg	5,327	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,270	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_2	non-Rad	Copper	7440-50-8	ug/kg	14,311	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	3,034	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_2	non-Rad	Manganese	7439-96-5	ug/kg	289,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_2	non-Rad	Molybdenum	7439-98-7	ug/kg	307	4.70E+02	No	3.17E+03	No
118-K-1_P2_Deep_2	non-Rad	Nickel	7440-02-0	ug/kg	8,045	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,901	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,754	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_2	non-Rad	Zinc	7440-66-6	ug/kg	59,990	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.30	--	--	--	--
118-K-1_P2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--	--	--	--
118-K-1_P2_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	0.093	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.23	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	0.46	--	--	--	--
118-K-1_P2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	11	--	--	--	--
118-K-1_P2_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.80	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.64	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_3	non-Rad	Aluminum	7429-90-5	ug/kg	4.75E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_3	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_3	non-Rad	Barium	7440-39-3	ug/kg	47,321	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_3	non-Rad	Beryllium	7440-41-7	ug/kg	217	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_3	non-Rad	Boron	7440-42-8	ug/kg	616	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_3	non-Rad	Cadmium	7440-43-9	ug/kg	62	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_3	non-Rad	Chromium	7440-47-3	ug/kg	4,002	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,197	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_3	non-Rad	Copper	7440-50-8	ug/kg	13,000	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_3	non-Rad	Iron	7439-89-6	ug/kg	2.22E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	2,370	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_3	non-Rad	Manganese	7439-96-5	ug/kg	276,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_3	non-Rad	Mercury	7439-97-6	ug/kg	9.2	1.31E+01	No	2.92E+01	No
118-K-1_P2_Deep_3	non-Rad	Molybdenum	7439-98-7	ug/kg	338	4.70E+02	No	3.17E+03	No
118-K-1_P2_Deep_3	non-Rad	Nickel	7440-02-0	ug/kg	7,219	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,075	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_3	non-Rad	Vanadium	7440-62-2	ug/kg	67,900	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_3	non-Rad	Zinc	7440-66-6	ug/kg	41,900	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.24	--	--	--	--
118-K-1_P2_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	2.3	--	--	--	--
118-K-1_P2_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	0.77	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.69	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	1.1	--	--	--	--
118-K-1_P2_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	3.34E-02	Yes	7.90E-02	Yes
118-K-1_P2_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	38	--	--	--	--
118-K-1_P2_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.82	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_3	Rad	Uranium-238	U-238	pCi/g	0.70	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_4	non-Rad	Aluminum	7429-90-5	ug/kg	6.12E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_4	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_4	non-Rad	Barium	7440-39-3	ug/kg	49,958	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_4	non-Rad	Beryllium	7440-41-7	ug/kg	246	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_4	non-Rad	Boron	7440-42-8	ug/kg	1,010	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_4	non-Rad	Cadmium	7440-43-9	ug/kg	58	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_4	non-Rad	Chromium	7440-47-3	ug/kg	6,990	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,410	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_4	non-Rad	Copper	7440-50-8	ug/kg	13,100	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_4	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_4	non-Rad	Lead	7439-92-1	ug/kg	3,380	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_4	non-Rad	Manganese	7439-96-5	ug/kg	285,000	5.12E+05	No	1.11E+06	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Deep_4	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Deep_4	non-Rad	Nickel	7440-02-0	ug/kg	8,510	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,122	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_4	non-Rad	Vanadium	7440-62-2	ug/kg	62,899	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_4	non-Rad	Zinc	7440-66-6	ug/kg	40,545	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	0.50	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_4	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Deep_4	Rad	Europium-152	14683-23-9	pCi/g	1.3	--	--	--	--
118-K-1_P2_Deep_4	Rad	Nickel-63	13981-37-8	pCi/g	3.4	--	--	--	--
118-K-1_P2_Deep_4	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_4	Rad	Strontium-90	10098-97-2	pCi/g	0.68	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P2_Deep_4	Rad	Tritium	10028-17-8	pCi/g	5.2	--	--	--	--
118-K-1_P2_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_4	Rad	Uranium-235	15117-96-1	pCi/g	0.041	1.09E-01	No	3.86E-01	No
118-K-1_P2_Deep_4	Rad	Uranium-238	U-238	pCi/g	0.71	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.08E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_5	non-Rad	Antimony	7440-36-0	ug/kg	237	1.30E+02	Yes	3.85E+02	No
118-K-1_P2_Deep_5	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.4	--	--	--	--
118-K-1_P2_Deep_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,850	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_5	non-Rad	Barium	7440-39-3	ug/kg	72,194	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_5	non-Rad	Beryllium	7440-41-7	ug/kg	327	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_5	non-Rad	Boron	7440-42-8	ug/kg	794	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_5	non-Rad	Cadmium	7440-43-9	ug/kg	106	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_5	non-Rad	Chromium	7440-47-3	ug/kg	4,480	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_5	non-Rad	Cobalt	7440-48-4	ug/kg	7,990	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_5	non-Rad	Copper	7440-50-8	ug/kg	17,100	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_5	non-Rad	Iron	7439-89-6	ug/kg	3.40E+07	3.26E+07	Yes	6.81E+07	No
118-K-1_P2_Deep_5	non-Rad	Lead	7439-92-1	ug/kg	2,370	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_5	non-Rad	Manganese	7439-96-5	ug/kg	413,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_5	non-Rad	Molybdenum	7439-98-7	ug/kg	553	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Deep_5	non-Rad	Nickel	7440-02-0	ug/kg	7,096	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,110	--	--	--	--
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	53,100	--	--	--	--
118-K-1_P2_Deep_5	non-Rad	Vanadium	7440-62-2	ug/kg	88,842	8.51E+04	Yes	1.40E+05	No
118-K-1_P2_Deep_5	non-Rad	Zinc	7440-66-6	ug/kg	55,271	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_5	Rad	Carbon-14	14762-75-5	pCi/g	2.7	--	--	--	--
118-K-1_P2_Deep_5	Rad	Cesium-137	10045-97-3	pCi/g	0.092	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_5	Rad	Nickel-63	13981-37-8	pCi/g	12	--	--	--	--
118-K-1_P2_Deep_6	non-Rad	Aluminum	7429-90-5	ug/kg	6.25E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,120	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_6	non-Rad	Barium	7440-39-3	ug/kg	67,400	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_6	non-Rad	Beryllium	7440-41-7	ug/kg	311	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_6	non-Rad	Boron	7440-42-8	ug/kg	667	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_6	non-Rad	Cadmium	7440-43-9	ug/kg	118	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_6	non-Rad	Chromium	7440-47-3	ug/kg	5,380	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_6	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_6	non-Rad	Copper	7440-50-8	ug/kg	17,780	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_6	non-Rad	Iron	7439-89-6	ug/kg	3.04E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_6	non-Rad	Lead	7439-92-1	ug/kg	3,266	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_6	non-Rad	Manganese	7439-96-5	ug/kg	391,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_6	non-Rad	Molybdenum	7439-98-7	ug/kg	327	4.70E+02	No	3.17E+03	No
118-K-1_P2_Deep_6	non-Rad	Nickel	7440-02-0	ug/kg	7,810	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_6	non-Rad	Vanadium	7440-62-2	ug/kg	82,600	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_6	non-Rad	Zinc	7440-66-6	ug/kg	48,600	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_6	Rad	Carbon-14	14762-75-5	pCi/g	1.7	--	--	--	--
118-K-1_P2_Deep_6	Rad	Cesium-137	10045-97-3	pCi/g	0.084	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_7	non-Rad	Aluminum	7429-90-5	ug/kg	6.24E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_7	non-Rad	Arsenic	7440-38-2	ug/kg	1,820	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_7	non-Rad	Barium	7440-39-3	ug/kg	53,701	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_7	non-Rad	Beryllium	7440-41-7	ug/kg	248	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_7	non-Rad	Chromium	7440-47-3	ug/kg	8,465	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_7	non-Rad	Cobalt	7440-48-4	ug/kg	10,401	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_7	non-Rad	Copper	7440-50-8	ug/kg	17,328	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_7	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_7	non-Rad	Lead	7439-92-1	ug/kg	3,270	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_7	non-Rad	Manganese	7439-96-5	ug/kg	360,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_7	non-Rad	Mercury	7439-97-6	ug/kg	18	1.31E+01	Yes	2.92E+01	No
118-K-1_P2_Deep_7	non-Rad	Nickel	7440-02-0	ug/kg	8,156	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,216	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_7	non-Rad	Vanadium	7440-62-2	ug/kg	91,461	8.51E+04	Yes	1.40E+05	No
118-K-1_P2_Deep_7	non-Rad	Zinc	7440-66-6	ug/kg	55,780	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_7	Rad	Americium-241	14596-10-2	pCi/g	1.8	--	--	--	--
118-K-1_P2_Deep_7	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--	--	--	--
118-K-1_P2_Deep_7	Rad	Cesium-137	10045-97-3	pCi/g	10	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P2_Deep_7	Rad	Nickel-63	13981-37-8	pCi/g	3.4	--	--	--	--
118-K-1_P2_Deep_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_7	Rad	Strontium-90	10098-97-2	pCi/g	7.3	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P2_Deep_7	Rad	Tritium	10028-17-8	pCi/g	7.5	--	--	--	--
118-K-1_P2_Deep_7	Rad	Uranium-233/234	U-233/234	pCi/g	0.46	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_7	Rad	Uranium-238	U-238	pCi/g	0.74	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_8	non-Rad	Aluminum	7429-90-5	ug/kg	6.81E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_8	non-Rad	Arsenic	7440-38-2	ug/kg	2,093	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_8	non-Rad	Barium	7440-39-3	ug/kg	67,500	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_8	non-Rad	Beryllium	7440-41-7	ug/kg	334	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_8	non-Rad	Boron	7440-42-8	ug/kg	693	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_8	non-Rad	Cadmium	7440-43-9	ug/kg	103	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_8	non-Rad	Chromium	7440-47-3	ug/kg	4,802	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_8	non-Rad	Cobalt	7440-48-4	ug/kg	11,230	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_8	non-Rad	Copper	7440-50-8	ug/kg	18,500	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_8	non-Rad	Iron	7439-89-6	ug/kg	3.60E+07	3.26E+07	Yes	6.81E+07	No
118-K-1_P2_Deep_8	non-Rad	Lead	7439-92-1	ug/kg	3,744	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_8	non-Rad	Manganese	7439-96-5	ug/kg	515,801	5.12E+05	Yes	1.11E+06	No
118-K-1_P2_Deep_8	non-Rad	Molybdenum	7439-98-7	ug/kg	495	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Deep_8	non-Rad	Nickel	7440-02-0	ug/kg	8,390	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_8	non-Rad	Selenium	7782-49-2	ug/kg	268	7.80E+02	No	8.40E+02	No
118-K-1_P2_Deep_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,244	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_8	non-Rad	Vanadium	7440-62-2	ug/kg	83,544	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_8	non-Rad	Zinc	7440-66-6	ug/kg	52,500	6.78E+04	No	3.66E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Deep_8	Rad	Americium-241	14596-10-2	pCi/g	0.28	--	--	--	--
118-K-1_P2_Deep_8	Rad	Carbon-14	14762-75-5	pCi/g	0.84	--	--	--	--
118-K-1_P2_Deep_8	Rad	Cesium-137	10045-97-3	pCi/g	0.29	1.05E+00	No	1.64E+00	No
118-K-1_P2_Deep_8	Rad	Tritium	10028-17-8	pCi/g	5.8	--	--	--	--
118-K-1_P2_Deep_8	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_8	Rad	Uranium-238	U-238	pCi/g	0.75	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.30E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	3,040	1.30E+02	Yes	3.85E+02	Yes
118-K-1_P2_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,910	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	41,900	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	183	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	1,260	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	79	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6,030	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,300	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	13,600	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	1.77E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	8,410	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	203	1.31E+01	Yes	2.92E+01	Yes
118-K-1_P2_Deep_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	517	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Deep_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6,550	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,706	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	37,200	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.99	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Carbon-14	14762-75-5	pCi/g	2.3	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	11	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P2_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	2.3	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	57	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	0.053	3.78E-03	Yes	1.93E-02	Yes
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.7	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	29	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P2_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.57	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.61E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,130	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	56,100	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	228	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	791	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	69	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13,000	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,420	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	13,000	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	2,870	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	256,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	258	4.70E+02	No	3.17E+03	No
118-K-1_P2_Deep_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	11,700	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,823	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	42,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_Focused_2	Rad	Americium-241	14596-10-2	pCi/g	2.2	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Carbon-14	14762-75-5	pCi/g	14	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	4.4	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P2_Deep_Focused_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.40	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Deep_Focused_2	Rad	Europium-152	14683-23-9	pCi/g	37	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Europium-154	15585-10-1	pCi/g	1.9	3.34E-02	Yes	7.90E-02	Yes
118-K-1_P2_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	14	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.32	3.78E-03	Yes	1.93E-02	Yes
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_Focused_2	Rad	Strontium-90	10098-97-2	pCi/g	15	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P2_Deep_Focused_2	Rad	Tritium	10028-17-8	pCi/g	8.1	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.041	1.09E-01	No	3.86E-01	No
118-K-1_P2_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.61	1.06E+00	No	1.21E+00	No
118-K-1_P2_Deep_Focused_7	non-Rad	Aluminum	7429-90-5	ug/kg	6.45E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Deep_Focused_7	non-Rad	Arsenic	7440-38-2	ug/kg	2,080	2.00E+04	No	2.77E+04	No
118-K-1_P2_Deep_Focused_7	non-Rad	Barium	7440-39-3	ug/kg	86,500	1.32E+05	No	4.80E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Beryllium	7440-41-7	ug/kg	330	1.51E+03	No	1.00E+04	No
118-K-1_P2_Deep_Focused_7	non-Rad	Boron	7440-42-8	ug/kg	523	3.89E+03	No	5.86E+03	No
118-K-1_P2_Deep_Focused_7	non-Rad	Cadmium	7440-43-9	ug/kg	78	5.63E+02	No	2.98E+03	No
118-K-1_P2_Deep_Focused_7	non-Rad	Chromium	7440-47-3	ug/kg	6,900	1.85E+04	No	3.20E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Cobalt	7440-48-4	ug/kg	6,460	1.57E+04	No	1.10E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Copper	7440-50-8	ug/kg	17,600	2.20E+04	No	6.10E+04	No
118-K-1_P2_Deep_Focused_7	non-Rad	Iron	7439-89-6	ug/kg	2.98E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Deep_Focused_7	non-Rad	Lead	7439-92-1	ug/kg	3,290	1.02E+04	No	7.41E+04	No
118-K-1_P2_Deep_Focused_7	non-Rad	Manganese	7439-96-5	ug/kg	345,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Deep_Focused_7	non-Rad	Molybdenum	7439-98-7	ug/kg	394	4.70E+02	No	3.17E+03	No
118-K-1_P2_Deep_Focused_7	non-Rad	Nickel	7440-02-0	ug/kg	9,130	1.91E+04	No	2.00E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,837	3.21E+03	No	4.04E+03	No
118-K-1_P2_Deep_Focused_7	non-Rad	Vanadium	7440-62-2	ug/kg	70,500	8.51E+04	No	1.40E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Zinc	7440-66-6	ug/kg	47,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Deep_Focused_7	Rad	Americium-241	14596-10-2	pCi/g	3.9	--	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Cesium-137	10045-97-3	pCi/g	36	1.05E+00	Yes	1.64E+00	Yes
118-K-1_P2_Deep_Focused_7	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Deep_Focused_7	Rad	Nickel-63	13981-37-8	pCi/g	8.4	--	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-238	13981-16-3	pCi/g	0.38	3.78E-03	Yes	1.93E-02	Yes
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.2	2.48E-02	Yes	3.31E-02	Yes
118-K-1_P2_Deep_Focused_7	Rad	Strontium-90	10098-97-2	pCi/g	12	1.78E-01	Yes	3.66E-01	Yes
118-K-1_P2_Deep_Focused_7	Rad	Tritium	10028-17-8	pCi/g	30	--	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Uranium-233/234	U-233/234	pCi/g	0.42	1.10E+00	No	1.51E+00	No
118-K-1_P2_Deep_Focused_7	Rad	Uranium-238	U-238	pCi/g	0.62	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.76E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,420	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	55,474	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	251	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,458	3.89E+03	No	5.86E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	77	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6,290	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,406	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,800	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,360	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	295,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	423	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	7,140	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	55,364	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	44,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	4.5	--	--	--	--
118-K-1_P2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.073	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	6.5	--	--	--	--
118-K-1_P2_Shallow_10	non-Rad	Aluminum	7429-90-5	ug/kg	9.80E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	ug/kg	3,370	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_10	non-Rad	Barium	7440-39-3	ug/kg	76,559	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_10	non-Rad	Beryllium	7440-41-7	ug/kg	401	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_10	non-Rad	Boron	7440-42-8	ug/kg	1,659	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_10	non-Rad	Cadmium	7440-43-9	ug/kg	121	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_10	non-Rad	Chromium	7440-47-3	ug/kg	11,600	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_10	non-Rad	Cobalt	7440-48-4	ug/kg	9,600	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	ug/kg	22,649	2.20E+04	Yes	6.10E+04	No
118-K-1_P2_Shallow_10	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_10	non-Rad	Lead	7439-92-1	ug/kg	4,510	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_10	non-Rad	Manganese	7439-96-5	ug/kg	452,510	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	ug/kg	1,590	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_10	non-Rad	Nickel	7440-02-0	ug/kg	10,800	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_10	non-Rad	Nitrate	14797-55-8	ug/kg	44,542	5.20E+04	No	9.06E+05	No
118-K-1_P2_Shallow_10	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,171	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_10	non-Rad	Vanadium	7440-62-2	ug/kg	83,071	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_10	non-Rad	Zinc	7440-66-6	ug/kg	56,346	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	pCi/g	0.88	--	--	--	--
118-K-1_P2_Shallow_10	Rad	Cesium-137	10045-97-3	pCi/g	0.11	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_10	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_10	Rad	Uranium-238	U-238	pCi/g	0.73	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_11A	non-Rad	Aluminum	7429-90-5	ug/kg	7.97E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	ug/kg	2,973	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11A	non-Rad	Barium	7440-39-3	ug/kg	75,402	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Beryllium	7440-41-7	ug/kg	311	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11A	non-Rad	Boron	7440-42-8	ug/kg	1,847	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11A	non-Rad	Cadmium	7440-43-9	ug/kg	124	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11A	non-Rad	Chromium	7440-47-3	ug/kg	9,103	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Cobalt	7440-48-4	ug/kg	8,040	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Copper	7440-50-8	ug/kg	18,000	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11A	non-Rad	Iron	7439-89-6	ug/kg	2.64E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11A	non-Rad	Lead	7439-92-1	ug/kg	5,321	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11A	non-Rad	Manganese	7439-96-5	ug/kg	351,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	650	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11A	non-Rad	Nickel	7440-02-0	ug/kg	10,657	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	ug/kg	121,000	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Vanadium	7440-62-2	ug/kg	71,900	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Zinc	7440-66-6	ug/kg	56,000	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11A	Rad	Cesium-137	10045-97-3	pCi/g	0.14	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11B	non-Rad	Aluminum	7429-90-5	ug/kg	1.06E+07	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3,228	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11B	non-Rad	Barium	7440-39-3	ug/kg	87,080	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Beryllium	7440-41-7	ug/kg	383	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11B	non-Rad	Boron	7440-42-8	ug/kg	2,290	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11B	non-Rad	Cadmium	7440-43-9	ug/kg	136	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11B	non-Rad	Chromium	7440-47-3	ug/kg	12,715	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Cobalt	7440-48-4	ug/kg	7,860	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Copper	7440-50-8	ug/kg	17,700	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11B	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11B	non-Rad	Lead	7439-92-1	ug/kg	5,250	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11B	non-Rad	Manganese	7439-96-5	ug/kg	404,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	678	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11B	non-Rad	Nickel	7440-02-0	ug/kg	12,000	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	ug/kg	390,793	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	ug/kg	1,000	--	--	--	--
118-K-1_P2_Shallow_11B	non-Rad	Vanadium	7440-62-2	ug/kg	69,400	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Zinc	7440-66-6	ug/kg	57,921	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	pCi/g	0.88	--	--	--	--
118-K-1_P2_Shallow_11B	Rad	Cesium-137	10045-97-3	pCi/g	0.099	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	1.18E+07	Yes	2.88E+07	No
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	ug/kg	3,653	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11C	non-Rad	Barium	7440-39-3	ug/kg	96,400	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Beryllium	7440-41-7	ug/kg	433	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11C	non-Rad	Boron	7440-42-8	ug/kg	2,414	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11C	non-Rad	Cadmium	7440-43-9	ug/kg	146	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11C	non-Rad	Chromium	7440-47-3	ug/kg	14,900	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Cobalt	7440-48-4	ug/kg	7,710	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Copper	7440-50-8	ug/kg	19,453	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11C	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11C	non-Rad	Lead	7439-92-1	ug/kg	5,085	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11C	non-Rad	Manganese	7439-96-5	ug/kg	441,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	39	1.31E+01	Yes	2.92E+01	Yes
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	ug/kg	517	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11C	non-Rad	Nickel	7440-02-0	ug/kg	14,400	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	ug/kg	169,367	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Vanadium	7440-62-2	ug/kg	65,680	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Zinc	7440-66-6	ug/kg	49,600	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	pCi/g	0.87	--	--	--	--
118-K-1_P2_Shallow_11C	Rad	Cesium-137	10045-97-3	pCi/g	0.095	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11D	non-Rad	Aluminum	7429-90-5	ug/kg	1.17E+07	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	ug/kg	3,120	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11D	non-Rad	Barium	7440-39-3	ug/kg	89,100	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Beryllium	7440-41-7	ug/kg	395	1.51E+03	No	1.00E+04	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Shallow_11D	non-Rad	Boron	7440-42-8	ug/kg	2,320	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11D	non-Rad	Cadmium	7440-43-9	ug/kg	162	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11D	non-Rad	Chromium	7440-47-3	ug/kg	12,600	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Cobalt	7440-48-4	ug/kg	7,275	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Copper	7440-50-8	ug/kg	14,940	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11D	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11D	non-Rad	Lead	7439-92-1	ug/kg	5,756	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11D	non-Rad	Manganese	7439-96-5	ug/kg	409,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	ug/kg	563	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11D	non-Rad	Nickel	7440-02-0	ug/kg	11,600	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	ug/kg	148,000	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Vanadium	7440-62-2	ug/kg	62,900	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Zinc	7440-66-6	ug/kg	49,719	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--	--	--	--
118-K-1_P2_Shallow_11D	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11E	non-Rad	Aluminum	7429-90-5	ug/kg	1.12E+07	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	ug/kg	3,772	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11E	non-Rad	Barium	7440-39-3	ug/kg	94,900	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Beryllium	7440-41-7	ug/kg	379	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11E	non-Rad	Boron	7440-42-8	ug/kg	2,315	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11E	non-Rad	Cadmium	7440-43-9	ug/kg	146	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11E	non-Rad	Chromium	7440-47-3	ug/kg	12,619	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Cobalt	7440-48-4	ug/kg	7,830	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	ug/kg	22,325	2.20E+04	Yes	6.10E+04	No
118-K-1_P2_Shallow_11E	non-Rad	Iron	7439-89-6	ug/kg	2.68E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11E	non-Rad	Lead	7439-92-1	ug/kg	6,070	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11E	non-Rad	Manganese	7439-96-5	ug/kg	431,889	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11E	non-Rad	Mercury	7439-97-6	ug/kg	9.3	1.31E+01	No	2.92E+01	No
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	ug/kg	563	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11E	non-Rad	Nickel	7440-02-0	ug/kg	11,100	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	ug/kg	56,000	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Vanadium	7440-62-2	ug/kg	68,495	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Zinc	7440-66-6	ug/kg	54,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	pCi/g	2.1	--	--	--	--
118-K-1_P2_Shallow_11E	Rad	Cesium-137	10045-97-3	pCi/g	0.14	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11F	non-Rad	Aluminum	7429-90-5	ug/kg	9.42E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	ug/kg	3,379	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11F	non-Rad	Barium	7440-39-3	ug/kg	83,400	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Beryllium	7440-41-7	ug/kg	316	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11F	non-Rad	Boron	7440-42-8	ug/kg	2,210	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11F	non-Rad	Cadmium	7440-43-9	ug/kg	149	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11F	non-Rad	Chromium	7440-47-3	ug/kg	11,200	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Cobalt	7440-48-4	ug/kg	8,056	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Copper	7440-50-8	ug/kg	16,300	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11F	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11F	non-Rad	Lead	7439-92-1	ug/kg	5,510	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11F	non-Rad	Manganese	7439-96-5	ug/kg	374,448	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	22	1.31E+01	Yes	2.92E+01	No
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	ug/kg	884	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11F	non-Rad	Nickel	7440-02-0	ug/kg	11,300	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	ug/kg	65,100	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Vanadium	7440-62-2	ug/kg	77,500	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Zinc	7440-66-6	ug/kg	51,655	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--	--	--	--
118-K-1_P2_Shallow_11F	Rad	Cesium-137	10045-97-3	pCi/g	0.22	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	pCi/g	3.7	--	--	--	--
118-K-1_P2_Shallow_11G	non-Rad	Aluminum	7429-90-5	ug/kg	7.17E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	ug/kg	2,690	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11G	non-Rad	Barium	7440-39-3	ug/kg	60,300	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Beryllium	7440-41-7	ug/kg	290	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11G	non-Rad	Boron	7440-42-8	ug/kg	1,340	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11G	non-Rad	Cadmium	7440-43-9	ug/kg	109	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11G	non-Rad	Chromium	7440-47-3	ug/kg	8,117	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Cobalt	7440-48-4	ug/kg	8,360	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Copper	7440-50-8	ug/kg	16,781	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11G	non-Rad	Iron	7439-89-6	ug/kg	2.83E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11G	non-Rad	Lead	7439-92-1	ug/kg	4,750	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11G	non-Rad	Manganese	7439-96-5	ug/kg	377,844	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	ug/kg	582	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11G	non-Rad	Nickel	7440-02-0	ug/kg	9,760	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Nitrate	14797-55-8	ug/kg	42,833	5.20E+04	No	9.06E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	85,361	8.51E+04	Yes	1.40E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Zinc	7440-66-6	ug/kg	55,130	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	pCi/g	1.9	--	--	--	--
118-K-1_P2_Shallow_11G	Rad	Cesium-137	10045-97-3	pCi/g	0.16	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11H	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	ug/kg	2,774	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_11H	non-Rad	Barium	7440-39-3	ug/kg	55,500	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Beryllium	7440-41-7	ug/kg	256	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_11H	non-Rad	Boron	7440-42-8	ug/kg	1,258	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_11H	non-Rad	Cadmium	7440-43-9	ug/kg	103	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_11H	non-Rad	Chromium	7440-47-3	ug/kg	6,938	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Cobalt	7440-48-4	ug/kg	7,810	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Copper	7440-50-8	ug/kg	16,500	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_11H	non-Rad	Iron	7439-89-6	ug/kg	2.71E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_11H	non-Rad	Lead	7439-92-1	ug/kg	7,929	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_11H	non-Rad	Manganese	7439-96-5	ug/kg	344,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	ug/kg	488	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_11H	non-Rad	Nickel	7440-02-0	ug/kg	9,390	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Nitrate	14797-55-8	ug/kg	21,000	5.20E+04	No	9.06E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Vanadium	7440-62-2	ug/kg	82,400	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Zinc	7440-66-6	ug/kg	55,900	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	pCi/g	1.6	--	--	--	--
118-K-1_P2_Shallow_11H	Rad	Cesium-137	10045-97-3	pCi/g	0.27	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	pCi/g	0.29	--	--	--	--
118-K-1_P2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.08E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,870	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	56,878	1.32E+05	No	4.80E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	285	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,390	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	84	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8,523	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,386	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,685	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,338	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	309,188	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	375	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8,841	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,957	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	54,600	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	40,000	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.0	--	--	--	--
118-K-1_P2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.097	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.23	--	--	--	--
118-K-1_P2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.89	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.66	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.96E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,875	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	62,560	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	305	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,659	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	85	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,180	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,609	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,900	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,339	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	316,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	444	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	9,290	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,249	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	57,548	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,400	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--	--	--	--
118-K-1_P2_Shallow_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.014	2.48E-02	No	3.31E-02	No
118-K-1_P2_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.76	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	6.79E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	3,167	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	53,000	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	277	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	1,020	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	52	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	6,920	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,321	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	14,100	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	4,059	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	291,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	316	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	7,600	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,792	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	65,252	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	41,900	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	pCi/g	0.86	--	--	--	--
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	pCi/g	0.27	8.42E-03	Yes	3.87E-02	Yes
118-K-1_P2_Shallow_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_4	Rad	Uranium-235	15117-96-1	pCi/g	0.061	1.09E-01	No	3.86E-01	No
118-K-1_P2_Shallow_4	Rad	Uranium-238	U-238	pCi/g	0.60	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	8.45E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,930	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	73,049	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	346	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,610	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	93	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	7,592	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8,489	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	19,300	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	3.01E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	3,670	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	395,939	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	58	1.31E+01	Yes	2.92E+01	Yes
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	550	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	8,469	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	28,400	5.20E+04	No	9.06E+05	No
118-K-1_P2_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,100	--	--	--	--
118-K-1_P2_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	81,200	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	51,700	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	pCi/g	0.79	--	--	--	--
118-K-1_P2_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.23	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	pCi/g	0.32	--	--	--	--
118-K-1_P2_Shallow_6	non-Rad	Aluminum	7429-90-5	ug/kg	7.45E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,540	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_6	non-Rad	Barium	7440-39-3	ug/kg	114,051	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_6	non-Rad	Beryllium	7440-41-7	ug/kg	345	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_6	non-Rad	Boron	7440-42-8	ug/kg	957	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_6	non-Rad	Cadmium	7440-43-9	ug/kg	91	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_6	non-Rad	Chromium	7440-47-3	ug/kg	6,250	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_6	non-Rad	Cobalt	7440-48-4	ug/kg	8,456	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_6	non-Rad	Copper	7440-50-8	ug/kg	18,432	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_6	non-Rad	Iron	7439-89-6	ug/kg	2.95E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_6	non-Rad	Lead	7439-92-1	ug/kg	4,466	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_6	non-Rad	Manganese	7439-96-5	ug/kg	392,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_6	non-Rad	Molybdenum	7439-98-7	ug/kg	390	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_6	non-Rad	Nickel	7440-02-0	ug/kg	8,810	1.91E+04	No	2.00E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Shallow_6	non-Rad	Vanadium	7440-62-2	ug/kg	79,215	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_6	non-Rad	Zinc	7440-66-6	ug/kg	56,100	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	pCi/g	0.81	--	--	--	--
118-K-1_P2_Shallow_6	Rad	Cesium-137	10045-97-3	pCi/g	0.10	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	pCi/g	0.20	--	--	--	--
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	8.3	--	--	--	--
118-K-1_P2_Shallow_7	non-Rad	Aluminum	7429-90-5	ug/kg	9.46E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	ug/kg	16,300	1.30E+02	Yes	3.85E+02	Yes
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3,546	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_7	non-Rad	Barium	7440-39-3	ug/kg	73,740	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_7	non-Rad	Beryllium	7440-41-7	ug/kg	365	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_7	non-Rad	Boron	7440-42-8	ug/kg	1,840	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_7	non-Rad	Chromium	7440-47-3	ug/kg	10,300	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_7	non-Rad	Cobalt	7440-48-4	ug/kg	9,670	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	ug/kg	22,500	2.20E+04	Yes	6.10E+04	No
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	76	--	--	--	--
118-K-1_P2_Shallow_7	non-Rad	Iron	7439-89-6	ug/kg	2.91E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_7	non-Rad	Lead	7439-92-1	ug/kg	11,142	1.02E+04	Yes	7.41E+04	No
118-K-1_P2_Shallow_7	non-Rad	Manganese	7439-96-5	ug/kg	437,260	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	129	1.31E+01	Yes	2.92E+01	Yes
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	ug/kg	650	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_7	non-Rad	Nickel	7440-02-0	ug/kg	11,900	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,186	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_7	non-Rad	Vanadium	7440-62-2	ug/kg	79,100	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	77,182	6.78E+04	Yes	3.66E+05	No
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--	--	--	--
118-K-1_P2_Shallow_7	Rad	Cesium-137	10045-97-3	pCi/g	0.26	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_7	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_7	Rad	Uranium-238	U-238	pCi/g	0.73	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_8	non-Rad	Aluminum	7429-90-5	ug/kg	7.63E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	ug/kg	3,422	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_8	non-Rad	Barium	7440-39-3	ug/kg	78,248	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_8	non-Rad	Beryllium	7440-41-7	ug/kg	377	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_8	non-Rad	Boron	7440-42-8	ug/kg	1,020	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_8	non-Rad	Cadmium	7440-43-9	ug/kg	116	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_8	non-Rad	Chromium	7440-47-3	ug/kg	8,115	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_8	non-Rad	Cobalt	7440-48-4	ug/kg	13,365	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_8	non-Rad	Copper	7440-50-8	ug/kg	20,000	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_8	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_8	non-Rad	Lead	7439-92-1	ug/kg	6,672	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_8	non-Rad	Manganese	7439-96-5	ug/kg	453,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_8	non-Rad	Molybdenum	7439-98-7	ug/kg	435	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_8	non-Rad	Nickel	7440-02-0	ug/kg	11,306	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,456	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_8	non-Rad	Vanadium	7440-62-2	ug/kg	82,026	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_8	non-Rad	Zinc	7440-66-6	ug/kg	58,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--	--	--	--
118-K-1_P2_Shallow_8	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	pCi/g	3.4	--	--	--	--
118-K-1_P2_Shallow_8	Rad	Uranium-233/234	U-233/234	pCi/g	0.76	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_8	Rad	Uranium-238	U-238	pCi/g	0.49	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_9	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_9	non-Rad	Barium	7440-39-3	ug/kg	84,500	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_9	non-Rad	Beryllium	7440-41-7	ug/kg	369	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_9	non-Rad	Boron	7440-42-8	ug/kg	2,630	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_9	non-Rad	Cadmium	7440-43-9	ug/kg	156	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_9	non-Rad	Chromium	7440-47-3	ug/kg	13,000	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_9	non-Rad	Cobalt	7440-48-4	ug/kg	8,484	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_9	non-Rad	Copper	7440-50-8	ug/kg	17,100	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_9	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_9	non-Rad	Lead	7439-92-1	ug/kg	5,349	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_9	non-Rad	Manganese	7439-96-5	ug/kg	400,862	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	21	1.31E+01	Yes	2.92E+01	No
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	ug/kg	641	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_9	non-Rad	Nickel	7440-02-0	ug/kg	11,733	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	ug/kg	231,145	5.20E+04	Yes	9.06E+05	No
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	ug/kg	1,000	--	--	--	--
118-K-1_P2_Shallow_9	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,721	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_9	non-Rad	Vanadium	7440-62-2	ug/kg	69,800	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_9	non-Rad	Zinc	7440-66-6	ug/kg	55,577	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_9	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	pCi/g	0.053	--	--	--	--
118-K-1_P2_Shallow_9	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_9	Rad	Uranium-238	U-238	pCi/g	0.91	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.04E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	369	1.30E+02	Yes	3.85E+02	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,980	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	80,500	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	318	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	853	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	116	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	17,400	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,820	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	16,400	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	3.44E+07	3.26E+07	Yes	6.81E+07	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	2,690	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	464,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	481	4.70E+02	Yes	3.17E+03	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	26,500	1.91E+04	Yes	2.00E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,313	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	99,100	8.51E+04	Yes	1.40E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	53,000	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	pCi/g	1.7	--	--	--	--
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.80	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	0.78	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Aluminum	7429-90-5	ug/kg	4.41E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1,560	2.00E+04	No	2.77E+04	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
118-K-1_P2_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	52,000	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	285	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	73	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2,390	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,690	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	14,300	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Iron	7439-89-6	ug/kg	2.74E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	2,020	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	316,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	261	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5,640	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,110	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	65,000	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	44,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	pCi/g	3.1	--	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.33	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	0.37	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Aluminum	7429-90-5	ug/kg	5.27E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	55,700	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	196	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Boron	7440-42-8	ug/kg	483	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	66	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3,900	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	7,390	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	14,200	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Lead	7439-92-1	ug/kg	1,630	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	293,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	328	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	5,780	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,265	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	70,300	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	42,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-233/234	U-233/234	pCi/g	0.37	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-235	15117-96-1	pCi/g	0.026	1.09E-01	No	3.86E-01	No
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-238	U-238	pCi/g	0.42	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Aluminum	7429-90-5	ug/kg	9.10E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	3,740	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	86,200	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	302	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Boron	7440-42-8	ug/kg	1,390	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	20,300	1.85E+04	Yes	3.20E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	6,710	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	17,200	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Lead	7439-92-1	ug/kg	4,810	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	315,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	20,400	1.91E+04	Yes	2.00E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,435	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	43,900	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	40,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_Focused_6	Rad	Cesium-137	10045-97-3	pCi/g	0.63	1.05E+00	No	1.64E+00	No
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	pCi/g	12	--	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-238	U-238	pCi/g	0.82	1.06E+00	No	1.21E+00	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Aluminum	7429-90-5	ug/kg	6.68E+06	1.18E+07	No	2.88E+07	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	ug/kg	4,160	2.00E+04	No	2.77E+04	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Barium	7440-39-3	ug/kg	67,700	1.32E+05	No	4.80E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Beryllium	7440-41-7	ug/kg	280	1.51E+03	No	1.00E+04	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Boron	7440-42-8	ug/kg	796	3.89E+03	No	5.86E+03	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Cadmium	7440-43-9	ug/kg	102	5.63E+02	No	2.98E+03	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Chromium	7440-47-3	ug/kg	7,040	1.85E+04	No	3.20E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Cobalt	7440-48-4	ug/kg	7,220	1.57E+04	No	1.10E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Copper	7440-50-8	ug/kg	13,400	2.20E+04	No	6.10E+04	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Iron	7439-89-6	ug/kg	2.73E+07	3.26E+07	No	6.81E+07	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Lead	7439-92-1	ug/kg	3,480	1.02E+04	No	7.41E+04	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Manganese	7439-96-5	ug/kg	369,000	5.12E+05	No	1.11E+06	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Molybdenum	7439-98-7	ug/kg	428	4.70E+02	No	3.17E+03	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Nickel	7440-02-0	ug/kg	8,980	1.91E+04	No	2.00E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,200	3.21E+03	No	4.04E+03	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Vanadium	7440-62-2	ug/kg	82,100	8.51E+04	No	1.40E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Zinc	7440-66-6	ug/kg	48,300	6.78E+04	No	3.66E+05	No
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-233/234	U-233/234	pCi/g	0.35	1.10E+00	No	1.51E+00	No
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-238	U-238	pCi/g	0.40	1.06E+00	No	1.21E+00	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	ug/kg	2,804	2.00E+04	No	2.77E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Barium	7440-39-3	ug/kg	68,765	1.32E+05	No	4.80E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Beryllium	7440-41-7	ug/kg	373	1.51E+03	No	1.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Boron	7440-42-8	ug/kg	2,647	3.89E+03	No	5.86E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cadmium	7440-43-9	ug/kg	107	5.63E+02	No	2.98E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Chromium	7440-47-3	ug/kg	8,241	1.85E+04	No	3.20E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cobalt	7440-48-4	ug/kg	11,553	1.57E+04	No	1.10E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Copper	7440-50-8	ug/kg	18,300	2.20E+04	No	6.10E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Lead	7439-92-1	ug/kg	5,257	1.02E+04	No	7.41E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Manganese	7439-96-5	ug/kg	388,798	5.12E+05	No	1.11E+06	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nickel	7440-02-0	ug/kg	10,964	1.91E+04	No	2.00E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nitrate	14797-55-8	ug/kg	5,000	5.20E+04	No	9.06E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1,021	7.80E+02	Yes	8.40E+02	Yes
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	ug/kg	31,324	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	ug/kg	556	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Uranium	7440-61-1	ug/kg	516	3.21E+03	No	4.04E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Vanadium	7440-62-2	ug/kg	82,072	8.51E+04	No	1.40E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Zinc	7440-66-6	ug/kg	51,282	6.78E+04	No	3.66E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	ug/kg	611	1.30E+02	Yes	3.85E+02	Yes
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	ug/kg	4,053	2.00E+04	No	2.77E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Barium	7440-39-3	ug/kg	73,879	1.32E+05	No	4.80E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Beryllium	7440-41-7	ug/kg	381	1.51E+03	No	1.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Boron	7440-42-8	ug/kg	2,047	3.89E+03	No	5.86E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cadmium	7440-43-9	ug/kg	102	5.63E+02	No	2.98E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Chromium	7440-47-3	ug/kg	10,267	1.85E+04	No	3.20E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cobalt	7440-48-4	ug/kg	11,430	1.57E+04	No	1.10E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Copper	7440-50-8	ug/kg	19,213	2.20E+04	No	6.10E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Lead	7439-92-1	ug/kg	6,987	1.02E+04	No	7.41E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Manganese	7439-96-5	ug/kg	452,060	5.12E+05	No	1.11E+06	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	89	1.31E+01	Yes	2.92E+01	Yes
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nickel	7440-02-0	ug/kg	12,571	1.91E+04	No	2.00E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nitrate	14797-55-8	ug/kg	24,999	5.20E+04	No	9.06E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Selenium	7782-49-2	ug/kg	734	7.80E+02	No	8.40E+02	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	ug/kg	37,373	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	ug/kg	587	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Uranium	7440-61-1	ug/kg	599	3.21E+03	No	4.04E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Vanadium	7440-62-2	ug/kg	76,175	8.51E+04	No	1.40E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Zinc	7440-66-6	ug/kg	54,577	6.78E+04	No	3.66E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,570	2.00E+04	No	2.77E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,251	1.32E+05	No	4.80E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	449	1.51E+03	No	1.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,273	3.89E+03	No	5.86E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,530	1.85E+04	No	3.20E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	12,072	1.57E+04	No	1.10E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,296	2.20E+04	No	6.10E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,910	2.81E+03	No	7.33E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	108	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,893	1.02E+04	Yes	7.41E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	402,937	5.12E+05	No	1.11E+06	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	559	4.70E+02	Yes	3.17E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,189	1.91E+04	No	2.00E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	10,319	5.20E+04	No	9.06E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,120	7.80E+02	Yes	8.40E+02	Yes
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	31,645	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	568	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	561	3.21E+03	No	4.04E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	82,017	8.51E+04	No	1.40E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	55,448	6.78E+04	No	3.66E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	130	1.30E+02	No	3.85E+02	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No	2.77E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	101,000	1.32E+05	No	4.80E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	420	1.51E+03	No	1.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,100	3.89E+03	Yes	5.86E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	87	5.63E+02	No	2.98E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	1.85E+04	No	3.20E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,600	1.57E+04	No	1.10E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,900	2.20E+04	Yes	6.10E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	1.02E+04	No	7.41E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316,000	5.12E+05	No	1.11E+06	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	610	4.70E+02	Yes	3.17E+03	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,700	1.91E+04	No	2.00E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2,000	7.80E+02	Yes	8.40E+02	Yes
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	82	1.67E+02	No	2.73E+02	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	43,900	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	600	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	850	3.21E+03	No	4.04E+03	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	93,600	8.51E+04	Yes	1.40E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	62,600	6.78E+04	No	3.66E+05	No
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	670	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No	2.77E+04	No
128-K-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	71,500	1.32E+05	No	4.80E+05	No
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8,300	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2,900	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6,100	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4,100	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	870	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	350	5.63E+02	No	2.98E+03	No
128-K-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	1.85E+04	No	3.20E+05	No
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	11,000	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1,200	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	11,000	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	480	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1,900	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	1.02E+04	Yes	7.41E+04	No
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	1.31E+01	Yes	2.92E+01	Yes
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11,000	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	800	7.80E+02	Yes	8.40E+02	No
128-K-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	ug/kg	14,400	--	--	--	--
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--	--	--	--
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	10	--	--	--	--
128-K-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.07E+06	1.18E+07	No	2.88E+07	No
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	11	--	--	--	--
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	500	1.30E+02	Yes	3.85E+02	Yes
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,263	2.00E+04	No	2.77E+04	No
128-K-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,960	1.32E+05	No	4.80E+05	No
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	27	--	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--	--	--	--
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33	--	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.4	--	--	--	--
128-K-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	519	1.51E+03	No	1.00E+04	No
128-K-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,928	3.89E+03	No	5.86E+03	No
128-K-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	153	5.63E+02	No	2.98E+03	No
128-K-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,922	1.85E+04	No	3.20E+05	No
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	14	--	--	--	--
128-K-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,021	1.57E+04	No	1.10E+05	No
128-K-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,700	2.20E+04	Yes	6.10E+04	No
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	16	--	--	--	--
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--	--	--	--
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	14	--	--	--	--
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	18	--	--	--	--
128-K-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.26E+07	No	6.81E+07	No
128-K-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,642	1.02E+04	No	7.41E+04	No
128-K-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324,704	5.12E+05	No	1.11E+06	No
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	1.31E+01	Yes	2.92E+01	No
128-K-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	250	4.70E+02	No	3.17E+03	No
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	16	--	--	--	--
128-K-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,030	1.91E+04	No	2.00E+05	No
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	42	--	--	--	--
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	973	7.80E+02	Yes	8.40E+02	Yes
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,425	--	--	--	--
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,568	--	--	--	--
128-K-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,084	8.51E+04	No	1.40E+05	No
128-K-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49,542	6.78E+04	No	3.66E+05	No
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	10	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.26E+06	1.18E+07	No	2.88E+07	No
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	410	1.30E+02	Yes	3.85E+02	Yes
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.4	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	50	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	2.00E+04	No	2.77E+04	No
128-K-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	76,000	1.32E+05	No	4.80E+05	No
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.5	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.8	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	540	1.51E+03	No	1.00E+04	No
128-K-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,300	3.89E+03	No	5.86E+03	No
128-K-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	190	5.63E+02	No	2.98E+03	No
128-K-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	14,600	1.85E+04	No	3.20E+05	No
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	12	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,400	1.57E+04	No	1.10E+05	No
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,600	2.20E+04	Yes	6.10E+04	Yes
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	29	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	3.26E+07	No	6.81E+07	No
128-K-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	28,300	1.02E+04	Yes	7.41E+04	No
128-K-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	332,000	5.12E+05	No	1.11E+06	No
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	100	1.31E+01	Yes	2.92E+01	Yes
128-K-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	4.70E+02	No	3.17E+03	No
128-K-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,300	1.91E+04	No	2.00E+05	No
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	18	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,100	7.80E+02	Yes	8.40E+02	Yes

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	560,000	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1.20E+06	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	8.51E+04	No	1.40E+05	No
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	88,000	6.78E+04	Yes	3.66E+05	No
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,770	2.00E+04	No	2.77E+04	No
132-KE-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,800	1.32E+05	No	4.80E+05	No
132-KE-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	301	1.51E+03	No	1.00E+04	No
132-KE-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	77	5.63E+02	No	2.98E+03	No
132-KE-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,770	1.85E+04	No	3.20E+05	No
132-KE-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,270	1.57E+04	No	1.10E+05	No
132-KE-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,500	2.20E+04	No	6.10E+04	No
132-KE-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,340	1.02E+04	No	7.41E+04	No
132-KE-1_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	6,970	1.33E+04	No	1.92E+04	No
132-KE-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	308,000	5.12E+05	No	1.11E+06	No
132-KE-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	397	4.70E+02	No	3.17E+03	No
132-KE-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,340	1.91E+04	No	2.00E+05	No
132-KE-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	267	7.80E+02	No	8.40E+02	No
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	31,500	--	--	--	--
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	ug/kg	494	--	--	--	--
132-KE-1_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	467	3.21E+03	No	4.04E+03	No
132-KE-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	56,900	8.51E+04	No	1.40E+05	No
132-KE-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,800	6.78E+04	No	3.66E+05	No
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.040	--	--	--	--
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	15	--	--	--	--
132-KE-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	1.05E+00	No	1.64E+00	No
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	2.48E-02	Yes	3.31E-02	Yes
132-KE-1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.15	1.10E+00	No	1.51E+00	No
132-KE-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.015	1.09E-01	No	3.86E-01	No
132-KE-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.14	1.06E+00	No	1.21E+00	No
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--	--	--	--
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,490	2.00E+04	No	2.77E+04	No
1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	78,400	1.32E+05	No	4.80E+05	No
1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	384	1.51E+03	No	1.00E+04	No
1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,630	3.89E+03	No	5.86E+03	No
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	22,200	1.85E+04	Yes	3.20E+05	No
1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	12,300	1.57E+04	No	1.10E+05	No
1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,800	2.20E+04	No	6.10E+04	No
1607-K3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	23,100	1.02E+04	Yes	7.41E+04	No
1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	440,000	5.12E+05	No	1.11E+06	No
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	59	1.31E+01	Yes	2.92E+01	Yes
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	550	4.70E+02	Yes	3.17E+03	No
1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	18,800	1.91E+04	No	2.00E+05	No
1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,590	5.20E+04	No	9.06E+05	No
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	886	7.80E+02	Yes	8.40E+02	Yes
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	35,500	--	--	--	--
1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	549	--	--	--	--
1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	668	3.21E+03	No	4.04E+03	No
1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	74,600	8.51E+04	No	1.40E+05	No
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	68,900	6.78E+04	Yes	3.66E+05	No
600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.29E+06	1.18E+07	No	2.88E+07	No
600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	520	1.30E+02	Yes	3.85E+02	Yes
600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	10,358	2.00E+04	No	2.77E+04	No
600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	75,216	1.32E+05	No	4.80E+05	No
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	67	--	--	--	--
600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	653	1.51E+03	No	1.00E+04	No
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--	--	--	--
600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,759	3.89E+03	No	5.86E+03	No
600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	105	5.63E+02	No	2.98E+03	No
600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,813	1.85E+04	No	3.20E+05	No
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	46	--	--	--	--
600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,224	1.57E+04	No	1.10E+05	No
600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,238	2.20E+04	Yes	6.10E+04	No
600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	3.26E+07	No	6.81E+07	No
600-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,752	1.02E+04	No	7.41E+04	No
600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	348,791	5.12E+05	No	1.11E+06	No
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	1.31E+01	Yes	2.92E+01	No
600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	274	4.70E+02	No	3.17E+03	No
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	37,462	1.91E+04	Yes	2.00E+05	No
600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	87	--	--	--	--
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	985	7.80E+02	Yes	8.40E+02	Yes
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	22,077	--	--	--	--
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	31,433	--	--	--	--
600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,344	8.51E+04	No	1.40E+05	No
600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	53,782	6.78E+04	No	3.66E+05	No
600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	1.18E+07	No	2.88E+07	No
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	1.30E+02	Yes	3.85E+02	Yes
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,800	2.00E+04	No	2.77E+04	No
600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,500	1.32E+05	No	4.80E+05	No
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	72	--	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	120	--	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	210	--	--	--	--
600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	620	1.51E+03	No	1.00E+04	No
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--	--	--	--
600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,000	3.89E+03	No	5.86E+03	No
600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	5.63E+02	No	2.98E+03	No
600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,600	1.85E+04	No	3.20E+05	No
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	90	--	--	--	--
600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	1.57E+04	No	1.10E+05	No
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	28,900	2.20E+04	Yes	6.10E+04	No
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	240	--	--	--	--
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	100	--	--	--	--
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--	--	--	--
600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.43E+07	3.26E+07	No	6.81E+07	No
600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	21,700	1.02E+04	Yes	7.41E+04	No
600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	347,000	5.12E+05	No	1.11E+06	No
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	1.31E+01	Yes	2.92E+01	No
600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	4.70E+02	No	3.17E+03	No
600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,300	1.91E+04	No	2.00E+05	No

Table B-1. Comparison of EPCs for Waste Site Decision Units in the 100-K Source OUs to Hanford Site Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Lognormal 90th Percentile Background?	Maximum Background Value	Is EPC > Maximum Background?
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	96	--	--	--	--
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	940	7.80E+02	Yes	8.40E+02	Yes
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	180	1.67E+02	Yes	2.73E+02	No
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	20,000	--	--	--	--
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	39,000	--	--	--	--
600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56,200	8.51E+04	No	1.40E+05	No
600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	67,700	6.78E+04	No	3.66E+05	No

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.95E+02	--	--	--	3.20E+04	1.86E-02	1.63%
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	6.67E+02	5.48E-06	100.00%	2.40E+04	1.52E-01	13.34%
100-K-102_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	7.17E+04	--	--	--	1.60E+07	4.48E-03	0.39%
100-K-102_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	--	--	--	1.60E+05	2.16E-03	0.19%
100-K-102_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.03E+03	--	--	--	1.60E+07	6.42E-05	0.01%
100-K-102_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.23E+02	--	--	--	8.00E+04	1.53E-03	0.13%
100-K-102_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8.14E+03	--	--	--	1.20E+08	6.79E-05	0.01%
100-K-102_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	--	--	--	2.40E+04	4.84E-01	42.39%
100-K-102_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.90E+04	--	--	--	3.20E+06	5.93E-03	0.52%
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	--	--	--	2.40E+05	6.21E-04	0.05%
100-K-102_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.97E+05	--	--	--	1.12E+07	3.54E-02	3.10%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	2.40E+04	2.12E-01	18.57%
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.93E+02	--	--	--	4.00E+05	1.48E-03	0.13%
100-K-102_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	--	--	--	1.60E+06	6.62E-03	0.58%
100-K-102_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	8.93E+03	--	--	--	5.68E+08	1.57E-05	0.00%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	4.00E+05	4.31E-03	0.38%
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.76E-04	0.06%
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.89E+02	--	--	--	4.80E+07	1.43E-05	0.00%
100-K-102_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.88E+02	--	--	--	2.40E+05	2.45E-03	0.21%
100-K-102_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	8.16E+04	--	--	--	4.00E+05	2.04E-01	17.87%
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	1.18E+05	--	--	--	2.40E+07	4.91E-03	0.43%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.48E-06**	**--**	**--**	**1.14E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.48E-06**	**--**	**--**	**--**	**--**
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	4.45E+02	--	--	--	3.20E+04	1.39E-02	1.84%
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.03E+03	6.67E+02	4.55E-06	100.00%	2.40E+04	1.26E-01	16.73%
100-K-102_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.60E+07	3.92E-03	0.52%
100-K-102_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	--	--	--	1.60E+05	1.94E-03	0.26%
100-K-102_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	1.60E+07	6.76E-05	0.01%
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	--	--	--	8.00E+04	1.20E-02	1.59%
100-K-102_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6.30E+03	--	--	--	1.20E+08	5.25E-05	0.01%
100-K-102_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.12E+03	--	--	--	2.40E+04	3.80E-01	50.34%
100-K-102_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.20E+06	5.36E-03	0.71%
100-K-102_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.12E+07	2.89E-02	3.83%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	2.40E+04	5.05E-02	6.69%
100-K-102_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.46E+02	--	--	--	4.00E+05	1.12E-03	0.15%
100-K-102_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.34E+03	--	--	--	1.60E+06	5.83E-03	0.77%
100-K-102_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	1.04E+04	--	--	--	5.68E+08	1.83E-05	0.00%
100-K-102_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.31E+02	--	--	--	4.00E+05	8.26E-04	0.11%
100-K-102_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	3.06E+01	--	--	--	4.00E+05	7.66E-05	0.01%
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	4.80E+07	6.10E-04	0.08%
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	4.80E+07	9.97E-06	0.00%
100-K-102_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.99E+02	--	--	--	2.40E+05	2.91E-03	0.39%
100-K-102_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.75E+04	--	--	--	4.00E+05	1.19E-01	15.73%
100-K-102_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.22E+04	--	--	--	2.40E+07	1.76E-03	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.55E-06**	**--**	**--**	**7.55E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.55E-06**	**--**	**--**	**--**	**--**
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.63E+02	--	--	--	3.20E+04	1.45E-02	1.33%
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.51E+03	6.67E+02	6.76E-06	100.00%	2.40E+04	1.88E-01	17.25%
100-K-102_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.92E+04	--	--	--	1.60E+07	6.20E-03	0.57%
100-K-102_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.40E+02	--	--	--	1.60E+05	2.75E-03	0.25%
100-K-102_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.50E+03	--	--	--	1.60E+07	9.38E-05	0.01%
100-K-102_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.83E+02	--	--	--	8.00E+04	2.29E-03	0.21%
100-K-102_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.20E+08	9.08E-05	0.01%
100-K-102_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.38E+04	--	--	--	2.40E+04	5.75E-01	52.77%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.00E+04	--	--	--	3.20E+06	6.25E-03	0.57%
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	4.80E+06	9.60E-04	0.09%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.12E+07	5.79E-02	5.31%
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	8.20E+02	--	--	--	4.00E+05	2.05E-03	0.19%
100-K-102_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	--	--	--	1.60E+06	8.38E-03	0.77%
100-K-102_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	7.70E+03	--	--	--	5.68E+08	1.36E-05	0.00%
100-K-102_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	6.54E+02	--	--	--	4.00E+05	1.64E-03	0.15%
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	3.82E+04	--	--	--	4.80E+07	7.96E-04	0.07%
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	7.16E+02	--	--	--	4.80E+07	1.49E-05	0.00%
100-K-102_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	6.76E+02	--	--	--	2.40E+05	2.82E-03	0.26%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	4.00E+05	2.17E-01	19.89%
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	7.84E+04	--	--	--	2.40E+07	3.27E-03	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.76E-06**	**--**	**--**	**1.09E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.76E-06**	**--**	**--**	**--**	**--**
100-K-105_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	7.80E+06	--	--	--	8.00E+07	9.75E-02	9.47%
100-K-105_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.30E+02	--	--	--	3.20E+04	4.06E-03	0.39%
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	6.67E+02	3.75E-06	100.00%	2.40E+04	1.04E-01	10.11%
100-K-105_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.40E+04	--	--	--	1.60E+07	4.00E-03	0.39%
100-K-105_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.40E+02	--	--	--	1.60E+05	2.13E-03	0.21%
100-K-105_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	--	--	--	8.00E+04	1.09E-03	0.11%
100-K-105_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8.90E+03	--	--	--	1.20E+08	7.42E-05	0.01%
100-K-105_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.60E+03	--	--	--	2.40E+04	3.17E-01	30.75%
100-K-105_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.20E+06	4.38E-03	0.42%
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	--	--	--	2.40E+05	1.21E-03	0.12%
100-K-105_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	5.60E+07	3.39E-01	32.94%
100-K-105_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.20E+05	--	--	--	1.12E+07	2.86E-02	2.77%
100-K-105_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	3.10E+02	--	--	--	4.00E+05	7.75E-04	0.08%
100-K-105_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	--	--	--	1.60E+06	5.94E-03	0.58%
100-K-105_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	5.75E+03	--	--	--	5.68E+08	1.01E-05	0.00%
100-K-105_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	5.00E+02	--	--	--	4.00E+05	1.25E-03	0.12%
100-K-105_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	2.10E+01	--	--	--	4.00E+05	5.25E-05	0.01%
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.60E+04	--	--	--	4.80E+07	5.42E-04	0.05%
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.60E+02	--	--	--	4.80E+07	1.38E-05	0.00%
100-K-105_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	3.60E+02	--	--	--	2.40E+05	1.50E-03	0.15%
100-K-105_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.60E+04	--	--	--	4.00E+05	1.15E-01	11.17%
100-K-105_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.10E+04	--	--	--	2.40E+07	1.71E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.75E-06**	**--**	**--**	**1.03E+00**	**--**
100-K-105_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.74E-01	2.28E+00	7.63E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**7.63E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.14E-05**	**--**	**--**	**--**	**--**
100-K-105_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	--	--	--	8.00E+07	7.88E-02	8.07%
100-K-105_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	9.60E+01	--	--	--	3.20E+04	3.00E-03	0.31%
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.20E+03	6.67E+02	3.30E-06	100.00%	2.40E+04	9.17E-02	9.40%
100-K-105_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.60E+07	3.25E-03	0.33%
100-K-105_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	--	--	--	1.60E+05	1.69E-03	0.17%
100-K-105_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.50E+01	--	--	--	8.00E+04	6.88E-04	0.07%
100-K-105_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	7.30E+03	--	--	--	1.20E+08	6.08E-05	0.01%
100-K-105_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.20E+03	--	--	--	2.40E+04	3.00E-01	30.76%
100-K-105_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.20E+04	--	--	--	3.20E+06	3.75E-03	0.38%
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	--	--	--	2.40E+05	9.58E-04	0.10%
100-K-105_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	5.60E+07	3.39E-01	34.78%
100-K-105_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	2.70E+05	--	--	--	1.12E+07	2.41E-02	2.47%
100-K-105_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.00E+05	7.50E-04	0.08%
100-K-105_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.20E+03	--	--	--	1.60E+06	5.13E-03	0.53%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-105_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	5.10E+02	--	--	--	4.00E+05	1.28E-03	0.13%
100-K-105_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	1.80E+01	--	--	--	4.00E+05	4.50E-05	0.00%
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.30E+04	--	--	--	4.80E+07	4.79E-04	0.05%
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	4.80E+07	1.19E-05	0.00%
100-K-105_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	3.20E+02	--	--	--	2.40E+05	1.33E-03	0.14%
100-K-105_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	4.00E+05	1.18E-01	12.05%
100-K-105_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.10E+04	--	--	--	2.40E+07	1.71E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.30E-06**	**--**	**--**	**9.75E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.30E-06**	**--**	**--**	**--**	**--**
100-K-105_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	--	--	--	8.00E+07	9.63E-02	9.46%
100-K-105_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+02	--	--	--	3.20E+04	3.75E-03	0.37%
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	6.67E+02	3.75E-06	100.00%	2.40E+04	1.04E-01	10.24%
100-K-105_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.60E+07	3.75E-03	0.37%
100-K-105_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	--	--	--	1.60E+05	1.94E-03	0.19%
100-K-105_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	5.00E+01	--	--	--	8.00E+04	6.25E-04	0.06%
100-K-105_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9.20E+03	--	--	--	1.20E+08	7.67E-05	0.01%
100-K-105_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7.50E+03	--	--	--	2.40E+04	3.13E-01	30.72%
100-K-105_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.20E+06	4.38E-03	0.43%
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	--	--	--	2.40E+05	6.67E-04	0.07%
100-K-105_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	5.60E+07	3.39E-01	33.36%
100-K-105_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.12E+07	2.68E-02	2.63%
100-K-105_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	8.80E+00	--	--	--	2.40E+04	3.67E-04	0.04%
100-K-105_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	2.90E+02	--	--	--	4.00E+05	7.25E-04	0.07%
100-K-105_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.00E+04	--	--	--	1.60E+06	6.25E-03	0.61%
100-K-105_Shallow_3	non-Rad	Selenium	7782-49-2	ug/kg	5.40E+02	--	--	--	4.00E+05	1.35E-03	0.13%
100-K-105_Shallow_3	non-Rad	Silver	7440-22-4	ug/kg	2.50E+01	--	--	--	4.00E+05	6.25E-05	0.01%
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	ug/kg	2.90E+04	--	--	--	4.80E+07	6.04E-04	0.06%
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	4.80E+07	1.23E-05	0.00%
100-K-105_Shallow_3	non-Rad	Uranium	7440-61-1	ug/kg	9.30E+02	--	--	--	2.40E+05	3.88E-03	0.38%
100-K-105_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.30E+04	--	--	--	4.00E+05	1.08E-01	10.57%
100-K-105_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	5.40E+04	--	--	--	2.40E+07	2.25E-03	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.75E-06**	**--**	**--**	**1.02E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.75E-06**	**--**	**--**	**--**	**--**
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	6.67E+02	3.85E-06	100.00%	2.40E+04	1.07E-01	13.47%
100-K-106_Overburden_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.60E+07	3.84E-03	0.48%
100-K-106_Overburden_1	non-Rad	Beryllium	7440-41-7	ug/kg	1.59E+02	--	--	--	1.60E+05	9.94E-04	0.12%
100-K-106_Overburden_1	non-Rad	Cadmium	7440-43-9	ug/kg	6.96E+01	--	--	--	8.00E+04	8.70E-04	0.11%
100-K-106_Overburden_1	non-Rad	Chromium	7440-47-3	ug/kg	6.45E+03	--	--	--	1.20E+08	5.38E-05	0.01%
100-K-106_Overburden_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.06E+03	--	--	--	2.40E+04	3.78E-01	47.48%
100-K-106_Overburden_1	non-Rad	Copper	7440-50-8	ug/kg	1.48E+04	--	--	--	3.20E+06	4.63E-03	0.58%
100-K-106_Overburden_1	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.12E+07	2.81E-02	3.54%
100-K-106_Overburden_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.31E+02	--	--	--	4.00E+05	1.08E-03	0.14%
100-K-106_Overburden_1	non-Rad	Nickel	7440-02-0	ug/kg	9.02E+03	--	--	--	1.60E+06	5.64E-03	0.71%
100-K-106_Overburden_1	non-Rad	Nitrate	14797-55-8	ug/kg	5.58E+03	--	--	--	5.68E+08	9.82E-06	0.00%
100-K-106_Overburden_1	non-Rad	Silver	7440-22-4	ug/kg	3.34E+01	--	--	--	4.00E+05	8.35E-05	0.01%
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	4.80E+07	6.42E-04	0.08%
100-K-106_Overburden_1	non-Rad	Thallium	7440-28-0	ug/kg	1.15E+02	--	--	--	8.00E+02	1.44E-01	18.08%
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	ug/kg	4.10E+02	--	--	--	4.80E+07	8.54E-06	0.00%
100-K-106_Overburden_1	non-Rad	Uranium	7440-61-1	ug/kg	5.02E+02	--	--	--	2.40E+05	2.09E-03	0.26%
100-K-106_Overburden_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	4.00E+05	1.17E-01	14.71%
100-K-106_Overburden_1	non-Rad	Zinc	7440-66-6	ug/kg	4.18E+04	--	--	--	2.40E+07	1.74E-03	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.85E-06**	**--**	**--**	**7.95E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.85E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.22E+03	6.67E+02	3.33E-06	100.00%	2.40E+04	9.25E-02	13.98%
100-K-106_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	5.91E+04	--	--	--	1.60E+07	3.69E-03	0.56%
100-K-106_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.60E+02	--	--	--	1.60E+05	2.25E-03	0.34%
100-K-106_Overburden_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.05E+01	--	--	--	8.00E+04	8.81E-04	0.13%
100-K-106_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	1.73E+04	--	--	--	1.20E+08	1.44E-04	0.02%
100-K-106_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.23E+03	--	--	--	2.40E+04	3.85E-01	58.11%
100-K-106_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	1.58E+04	--	--	--	3.20E+06	4.94E-03	0.75%
100-K-106_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.12E+07	2.71E-02	4.09%
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.97E+02	--	--	--	4.00E+05	1.24E-03	0.19%
100-K-106_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	--	--	--	1.60E+06	8.25E-03	1.25%
100-K-106_Overburden_2	non-Rad	Nitrate	14797-55-8	ug/kg	1.00E+04	--	--	--	5.68E+08	1.76E-05	0.00%
100-K-106_Overburden_2	non-Rad	Selenium	7782-49-2	ug/kg	2.52E+02	--	--	--	4.00E+05	6.30E-04	0.10%
100-K-106_Overburden_2	non-Rad	Silver	7440-22-4	ug/kg	3.50E+01	--	--	--	4.00E+05	8.75E-05	0.01%
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	ug/kg	3.02E+04	--	--	--	4.80E+07	6.29E-04	0.10%
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	ug/kg	5.34E+02	--	--	--	4.80E+07	1.11E-05	0.00%
100-K-106_Overburden_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.40E+05	1.92E-03	0.29%
100-K-106_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.24E+04	--	--	--	4.00E+05	1.31E-01	19.79%
100-K-106_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	4.79E+04	--	--	--	2.40E+07	2.00E-03	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.33E-06**	**--**	**--**	**6.62E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.33E-06**	**--**	**--**	**--**	**--**
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.46E+03	6.67E+02	3.69E-06	100.00%	2.40E+04	1.03E-01	14.66%
100-K-106_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	6.04E+04	--	--	--	1.60E+07	3.78E-03	0.54%
100-K-106_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.57E+02	--	--	--	1.60E+05	1.61E-03	0.23%
100-K-106_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.44E+01	--	--	--	8.00E+04	9.30E-04	0.13%
100-K-106_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	5.97E+03	--	--	--	1.20E+08	4.98E-05	0.01%
100-K-106_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.16E+03	--	--	--	2.40E+04	3.40E-01	48.63%
100-K-106_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	1.54E+04	--	--	--	3.20E+06	4.81E-03	0.69%
100-K-106_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.12E+07	2.57E-02	3.68%
100-K-106_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	3.34E+02	--	--	--	4.00E+05	8.35E-04	0.12%
100-K-106_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	7.75E+03	--	--	--	1.60E+06	4.84E-03	0.69%
100-K-106_Overburden_3	non-Rad	Nitrate	14797-55-8	ug/kg	1.08E+04	--	--	--	5.68E+08	1.90E-05	0.00%
100-K-106_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	3.47E+01	--	--	--	4.00E+05	8.68E-05	0.01%
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	ug/kg	2.96E+04	--	--	--	4.80E+07	6.17E-04	0.09%
100-K-106_Overburden_3	non-Rad	Thallium	7440-28-0	ug/kg	7.99E+01	--	--	--	8.00E+02	9.99E-02	14.28%
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	ug/kg	3.91E+02	--	--	--	4.80E+07	8.15E-06	0.00%
100-K-106_Overburden_3	non-Rad	Uranium	7440-61-1	ug/kg	6.73E+02	--	--	--	2.40E+05	2.80E-03	0.40%
100-K-106_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.36E+04	--	--	--	4.00E+05	1.09E-01	15.59%
100-K-106_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	4.15E+04	--	--	--	2.40E+07	1.73E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.69E-06**	**--**	**--**	**6.99E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.69E-06**	**--**	**--**	**--**	**--**
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.17E+03	6.67E+02	3.25E-06	100.00%	2.40E+04	9.04E-02	13.55%
100-K-106_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.84E+04	--	--	--	1.60E+07	3.65E-03	0.55%
100-K-106_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	--	--	--	1.60E+05	1.94E-03	0.29%
100-K-106_Overburden_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.10E+01	--	--	--	8.00E+04	8.88E-04	0.13%
100-K-106_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5.99E+03	--	--	--	1.20E+08	4.99E-05	0.01%
100-K-106_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.37E+03	--	--	--	2.40E+04	3.90E-01	58.50%
100-K-106_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.20E+06	4.88E-03	0.73%
100-K-106_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.12E+05	--	--	--	1.12E+07	2.79E-02	4.17%
100-K-106_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.98E+02	--	--	--	4.00E+05	9.95E-04	0.15%
100-K-106_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	8.29E+03	--	--	--	1.60E+06	5.18E-03	0.78%
100-K-106_Overburden_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.82E+03	--	--	--	5.68E+08	1.20E-05	0.00%
100-K-106_Overburden_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	2.68E+01	--	--	--	4.00E+05	6.70E-05	0.01%
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.94E+04	--	--	--	4.80E+07	6.13E-04	0.09%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.21E+02	--	--	--	4.80E+07	8.77E-06	0.00%
100-K-106_Overburden_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	7.40E+02	--	--	--	2.40E+05	3.08E-03	0.46%
100-K-106_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.40E+04	--	--	--	4.00E+05	1.35E-01	20.23%
100-K-106_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	5.50E+04	--	--	--	2.40E+07	2.29E-03	0.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.25E-06**	**--**	**--**	**6.67E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.25E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.92E+02	6.67E+02	1.49E-06	100.00%	2.40E+04	4.13E-02	9.78%
100-K-106_Shallow	non-Rad	Barium	7440-39-3	ug/kg	4.26E+04	--	--	--	1.60E+07	2.66E-03	0.63%
100-K-106_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	--	--	--	1.60E+05	1.31E-03	0.31%
100-K-106_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	3.66E+01	--	--	--	8.00E+04	4.58E-04	0.11%
100-K-106_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.79E+03	--	--	--	1.20E+08	2.33E-05	0.01%
100-K-106_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6.38E+03	--	--	--	2.40E+04	2.66E-01	62.90%
100-K-106_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.12E+04	--	--	--	3.20E+06	3.50E-03	0.83%
100-K-106_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.03E+05	--	--	--	1.12E+07	1.81E-02	4.29%
100-K-106_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.28E+02	--	--	--	4.00E+05	5.70E-04	0.13%
100-K-106_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	--	--	--	1.60E+06	3.28E-03	0.78%
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	4.80E+07	4.27E-04	0.10%
100-K-106_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.32E+02	--	--	--	4.80E+07	6.92E-06	0.00%
100-K-106_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	2.92E+02	--	--	--	2.40E+05	1.22E-03	0.29%
100-K-106_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	3.30E+04	--	--	--	4.00E+05	8.25E-02	19.52%
100-K-106_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	3.32E+04	--	--	--	2.40E+07	1.38E-03	0.33%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.49E-06**	**--**	**--**	**4.23E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.49E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1.32E+03	6.67E+02	1.98E-06	100.00%	2.40E+04	5.50E-02	10.04%
100-K-106_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	5.56E+04	--	--	--	1.60E+07	3.48E-03	0.63%
100-K-106_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.11E+02	--	--	--	1.60E+05	1.32E-03	0.24%
100-K-106_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	5.93E+01	--	--	--	8.00E+04	7.41E-04	0.14%
100-K-106_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	4.51E+03	--	--	--	1.20E+08	3.76E-05	0.01%
100-K-106_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.24E+03	--	--	--	2.40E+04	3.43E-01	62.69%
100-K-106_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	1.51E+04	--	--	--	3.20E+06	4.72E-03	0.86%
100-K-106_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	2.50E+05	--	--	--	1.12E+07	2.23E-02	4.08%
100-K-106_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	2.65E+02	--	--	--	4.00E+05	6.63E-04	0.12%
100-K-106_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6.17E+03	--	--	--	1.60E+06	3.86E-03	0.70%
100-K-106_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.31E+04	--	--	--	5.68E+08	2.31E-05	0.00%
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	2.19E+04	--	--	--	4.80E+07	4.56E-04	0.08%
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	3.70E+02	--	--	--	4.80E+07	7.71E-06	0.00%
100-K-106_Shallow_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	3.67E+02	--	--	--	2.40E+05	1.53E-03	0.28%
100-K-106_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.35E+04	--	--	--	4.00E+05	1.09E-01	19.86%
100-K-106_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	3.46E+04	--	--	--	2.40E+07	1.44E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.98E-06**	**--**	**--**	**5.48E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.98E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+03	6.67E+02	2.22E-06	100.00%	2.40E+04	6.17E-02	9.00%
100-K-106_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.88E+04	--	--	--	1.60E+07	3.68E-03	0.54%
100-K-106_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.31E+02	--	--	--	1.60E+05	1.44E-03	0.21%
100-K-106_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.18E+01	--	--	--	8.00E+04	6.48E-04	0.09%
100-K-106_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5.37E+03	--	--	--	1.20E+08	4.48E-05	0.01%
100-K-106_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.02E+04	--	--	--	2.40E+04	4.25E-01	62.02%
100-K-106_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.20E+06	4.38E-03	0.64%
100-K-106_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.12E+07	3.56E-02	5.20%
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.90E+02	--	--	--	4.00E+05	1.23E-03	0.18%
100-K-106_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	7.31E+03	--	--	--	1.60E+06	4.57E-03	0.67%
100-K-106_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.15E+03	--	--	--	5.68E+08	1.08E-05	0.00%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.01E+04	--	--	--	4.80E+07	4.19E-04	0.06%
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	4.80E+07	9.96E-06	0.00%
100-K-106_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.86E+02	--	--	--	2.40E+05	1.61E-03	0.23%
100-K-106_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.73E+04	--	--	--	4.00E+05	1.43E-01	20.90%
100-K-106_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	4.05E+04	--	--	--	2.40E+07	1.69E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.22E-06**	**--**	**--**	**6.85E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.22E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	6.67E+02	2.62E-06	100.00%	2.40E+04	7.29E-02	10.90%
100-K-106_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.98E+04	--	--	--	1.60E+07	3.74E-03	0.56%
100-K-106_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.41E+02	--	--	--	1.60E+05	2.13E-03	0.32%
100-K-106_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.00E+01	--	--	--	8.00E+04	8.75E-04	0.13%
100-K-106_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	5.71E+03	--	--	--	1.20E+08	4.76E-05	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.78E+03	--	--	--	2.40E+04	4.08E-01	60.89%
100-K-106_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.20E+06	5.28E-03	0.79%
100-K-106_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.12E+07	2.91E-02	4.35%
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.99E+02	--	--	--	4.00E+05	1.25E-03	0.19%
100-K-106_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	7.95E+03	--	--	--	1.60E+06	4.97E-03	0.74%
100-K-106_Shallow_Focused_3	non-Rad	Nitrate	14797-55-8	ug/kg	2.09E+04	--	--	--	5.68E+08	3.68E-05	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	3.41E+01	--	--	--	4.00E+05	8.53E-05	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.53E+04	--	--	--	4.80E+07	5.27E-04	0.08%
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.47E+02	--	--	--	4.80E+07	1.14E-05	0.00%
100-K-106_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.70E+02	--	--	--	2.40E+05	1.96E-03	0.29%
100-K-106_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.48E+04	--	--	--	4.00E+05	1.37E-01	20.47%
100-K-106_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	4.38E+04	--	--	--	2.40E+07	1.83E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.62E-06**	**--**	**--**	**6.69E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.62E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.01E+03	6.67E+02	1.51E-06	100.00%	2.40E+04	4.21E-02	8.17%
100-K-106_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	4.90E+04	--	--	--	1.60E+07	3.06E-03	0.59%
100-K-106_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	1.87E+02	--	--	--	1.60E+05	1.17E-03	0.23%
100-K-106_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.15E+01	--	--	--	8.00E+04	6.44E-04	0.12%
100-K-106_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2.28E+03	--	--	--	1.20E+08	1.90E-05	0.00%
100-K-106_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.95E+03	--	--	--	2.40E+04	3.31E-01	64.29%
100-K-106_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.43E+04	--	--	--	3.20E+06	4.47E-03	0.87%
100-K-106_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.62E+05	--	--	--	1.12E+07	2.34E-02	4.54%
100-K-106_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	3.03E+02	--	--	--	4.00E+05	7.58E-04	0.15%
100-K-106_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	--	--	--	1.60E+06	3.28E-03	0.64%
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	1.89E+04	--	--	--	4.80E+07	3.94E-04	0.08%
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.02E+02	--	--	--	4.80E+07	8.38E-06	0.00%
100-K-106_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	3.56E+02	--	--	--	2.40E+05	1.48E-03	0.29%
100-K-106_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	4.07E+04	--	--	--	4.00E+05	1.02E-01	19.75%
100-K-106_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	3.50E+04	--	--	--	2.40E+07	1.46E-03	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.51E-06**	**--**	**--**	**5.15E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.51E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.73E+03	6.67E+02	2.59E-06	100.00%	2.40E+04	7.21E-02	11.35%
100-K-106_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.33E+04	--	--	--	1.60E+07	3.33E-03	0.52%
100-K-106_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.19E+02	--	--	--	1.60E+05	1.99E-03	0.31%
100-K-106_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	5.21E+01	--	--	--	8.00E+04	6.51E-04	0.10%
100-K-106_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3.68E+03	--	--	--	1.20E+08	3.07E-05	0.00%
100-K-106_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.96E+03	--	--	--	2.40E+04	3.73E-01	58.80%
100-K-106_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	1.50E+04	--	--	--	3.20E+06	4.69E-03	0.74%
100-K-106_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.12E+07	2.33E-02	3.67%
100-K-106_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	3.72E+02	--	--	--	4.00E+05	9.30E-04	0.15%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	7.11E+03	--	--	--	1.60E+06	4.44E-03	0.70%
100-K-106_Shallow_Focused_5	non-Rad	Selenium	7782-49-2	ug/kg	2.75E+02	--	--	--	4.00E+05	6.88E-04	0.11%
100-K-106_Shallow_Focused_5	non-Rad	Silver	7440-22-4	ug/kg	3.28E+01	--	--	--	4.00E+05	8.20E-05	0.01%
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	4.80E+07	6.21E-04	0.10%
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	4.80E+07	1.00E-05	0.00%
100-K-106_Shallow_Focused_5	non-Rad	Uranium	7440-61-1	ug/kg	4.88E+02	--	--	--	2.40E+05	2.03E-03	0.32%
100-K-106_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	5.80E+04	--	--	--	4.00E+05	1.45E-01	22.84%
100-K-106_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	3.98E+04	--	--	--	2.40E+07	1.66E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.59E-06**	**--**	**--**	**6.35E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.59E-06**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	6.67E+02	3.00E-06	100.00%	2.40E+04	8.33E-02	12.86%
100-K-106_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	5.72E+04	--	--	--	1.60E+07	3.58E-03	0.55%
100-K-106_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.29E+02	--	--	--	1.60E+05	2.06E-03	0.32%
100-K-106_Shallow_Focused_6	non-Rad	Cadmium	7440-43-9	ug/kg	4.11E+01	--	--	--	8.00E+04	5.14E-04	0.08%
100-K-106_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	6.07E+03	--	--	--	1.20E+08	5.06E-05	0.01%
100-K-106_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	9.64E+03	--	--	--	2.40E+04	4.02E-01	61.97%
100-K-106_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	1.62E+04	--	--	--	3.20E+06	5.06E-03	0.78%
100-K-106_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.30E+05	--	--	--	1.12E+07	2.95E-02	4.55%
100-K-106_Shallow_Focused_6	non-Rad	Molybdenum	7439-98-7	ug/kg	2.98E+02	--	--	--	4.00E+05	7.45E-04	0.11%
100-K-106_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	9.74E+03	--	--	--	1.60E+06	6.09E-03	0.94%
100-K-106_Shallow_Focused_6	non-Rad	Nitrate	14797-55-8	ug/kg	1.04E+04	--	--	--	5.68E+08	1.83E-05	0.00%
100-K-106_Shallow_Focused_6	non-Rad	Selenium	7782-49-2	ug/kg	2.53E+02	--	--	--	4.00E+05	6.33E-04	0.10%
100-K-106_Shallow_Focused_6	non-Rad	Silver	7440-22-4	ug/kg	2.45E+01	--	--	--	4.00E+05	6.13E-05	0.01%
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	ug/kg	2.48E+04	--	--	--	4.80E+07	5.17E-04	0.08%
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	ug/kg	4.65E+02	--	--	--	4.80E+07	9.69E-06	0.00%
100-K-106_Shallow_Focused_6	non-Rad	Uranium	7440-61-1	ug/kg	4.78E+02	--	--	--	2.40E+05	1.99E-03	0.31%
100-K-106_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.43E+04	--	--	--	4.00E+05	1.11E-01	17.09%
100-K-106_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	3.86E+04	--	--	--	2.40E+07	1.61E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.00E-06**	**--**	**--**	**6.48E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.00E-06**	**--**	**--**	**--**	**--**
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.19E+03	6.67E+02	3.28E-06	100.00%	2.40E+04	9.12E-02	12.80%
100-K-109_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.60E+07	3.55E-03	0.50%
100-K-109_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	--	--	--	1.60E+05	1.85E-03	0.26%
100-K-109_Shallow	non-Rad	Boron	7440-42-8	ug/kg	8.98E+02	--	--	--	1.60E+07	5.61E-05	0.01%
100-K-109_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.90E+03	--	--	--	1.20E+08	4.92E-05	0.01%
100-K-109_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	--	--	--	2.40E+04	4.20E-01	58.98%
100-K-109_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.20E+06	5.54E-03	0.78%
100-K-109_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.12E+07	2.96E-02	4.15%
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	2.40E+04	3.17E-03	0.44%
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.00E+05	1.20E-03	0.17%
100-K-109_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.69E+03	--	--	--	1.60E+06	5.43E-03	0.76%
100-K-109_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	7.82E+03	--	--	--	5.68E+08	1.38E-05	0.00%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	4.00E+05	2.57E-03	0.36%
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	4.80E+07	5.28E-04	0.07%
100-K-109_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	4.80E+07	9.30E-06	0.00%
100-K-109_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.56E+02	--	--	--	2.40E+05	1.90E-03	0.27%
100-K-109_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	4.00E+05	1.44E-01	20.20%
100-K-109_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.33E+04	--	--	--	2.40E+07	1.80E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.28E-06**	**--**	**--**	**7.13E-01**	**--**
100-K-109_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.17E-02	4.40E+00	4.93E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**4.93E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.78E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.90E+03	6.67E+02	2.85E-06	100.00%	2.40E+04	7.92E-02	10.56%
100-K-109_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.02E+04	--	--	--	1.60E+07	3.76E-03	0.50%
100-K-109_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.00E+02	--	--	--	1.60E+05	1.88E-03	0.25%
100-K-109_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.10E+01	--	--	--	8.00E+04	1.01E-03	0.14%
100-K-109_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7.90E+03	--	--	--	1.20E+08	6.58E-05	0.01%
100-K-109_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	--	--	--	2.40E+04	4.21E-01	56.15%
100-K-109_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.85E+04	--	--	--	3.20E+06	5.78E-03	0.77%
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	--	--	--	2.40E+05	6.96E-04	0.09%
100-K-109_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.59E+05	--	--	--	1.12E+07	3.21E-02	4.28%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	2.40E+04	5.83E-04	0.08%
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.00E+05	1.20E-03	0.16%
100-K-109_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6.50E+03	--	--	--	1.60E+06	4.06E-03	0.54%
100-K-109_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5.05E+03	--	--	--	5.68E+08	8.89E-06	0.00%
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	4.00E+05	4.75E-03	0.63%
100-K-109_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	4.70E+01	--	--	--	4.00E+05	1.18E-04	0.02%
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.17E+04	--	--	--	4.80E+07	4.52E-04	0.06%
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	9.70E+02	--	--	--	4.80E+07	2.02E-05	0.00%
100-K-109_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.40E+05	1.92E-03	0.26%
100-K-109_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	7.55E+04	--	--	--	4.00E+05	1.89E-01	25.19%
100-K-109_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.40E+07	2.34E-03	0.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.85E-06**	**--**	**--**	**7.49E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.85E-06**	**--**	**--**	**--**	**--**
100-K-110_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.00E+06	--	--	--	8.00E+07	8.76E-02	4.08%
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.42E+03	--	--	--	3.20E+04	1.38E-01	6.43%
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8.69E+03	6.67E+02	1.30E-05	100.00%	2.40E+04	3.62E-01	16.88%
100-K-110_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.36E+04	--	--	--	1.60E+07	4.60E-03	0.21%
100-K-110_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.26E+02	--	--	--	1.60E+05	2.04E-03	0.10%
100-K-110_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.18E+02	--	--	--	8.00E+04	1.47E-03	0.07%
100-K-110_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.29E+03	--	--	--	1.20E+08	6.08E-05	0.00%
100-K-110_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.17E+04	--	--	--	2.40E+04	4.90E-01	22.81%
100-K-110_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.06E+04	--	--	--	3.20E+06	6.44E-03	0.30%
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	--	--	--	2.40E+05	8.29E-04	0.04%
100-K-110_Shallow	non-Rad	Iron	7439-89-6	ug/kg	3.35E+07	--	--	--	5.60E+07	5.98E-01	27.87%
100-K-110_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.13E+05	--	--	--	1.12E+07	3.69E-02	1.72%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	2.40E+04	1.80E-02	0.84%
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.87E+02	--	--	--	4.00E+05	1.47E-03	0.07%
100-K-110_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	--	--	--	1.60E+06	6.62E-03	0.31%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	4.00E+05	4.53E-03	0.21%
100-K-110_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.80E+01	--	--	--	4.00E+05	9.50E-05	0.00%
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.03E+04	--	--	--	4.80E+07	8.39E-04	0.04%
100-K-110_Shallow	non-Rad	Thallium	7440-28-0	ug/kg	1.42E+02	--	--	--	8.00E+02	1.77E-01	8.27%
100-K-110_Shallow	non-Rad	Tin	7440-31-5	ug/kg	9.94E+02	--	--	--	4.80E+07	2.07E-05	0.00%
100-K-110_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.26E+04	--	--	--	4.00E+05	2.07E-01	9.62%
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	7.65E+04	--	--	--	2.40E+07	3.19E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.30E-05**	**--**	**--**	**2.15E+00**	**--**
100-K-110_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	9.40E-02	4.40E+00	2.14E-06	99.53%	--	--	--
100-K-110_Shallow	Rad	Europium-155	14391-16-3	pCi/g	3.40E-02	3.35E+02	1.01E-08	0.47%	--	--	--
Total Radiological Risk Estimate							**2.15E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.52E-05**	**--**	**--**	**--**	**--**
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	--	--	--	8.00E+04	2.34E-02	83.39%
100-K-110_Shallow_focused	non-Rad	Chromium	7440-47-3	ug/kg	8.64E+03	--	--	--	1.20E+08	7.20E-05	0.26%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	2.40E+04	4.58E-03	16.35%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.80E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.15E+03	--	--	--	3.20E+04	1.30E-01	12.84%
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.12E+03	6.67E+02	3.18E-06	100.00%	2.40E+04	8.83E-02	8.74%
100-K-14, 126-KE-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.99E+04	--	--	--	1.60E+07	4.37E-03	0.43%
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	--	--	--	1.60E+05	1.02E-02	1.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	1.60E+07	6.63E-04	0.07%
100-K-14, 126-KE-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.58E+03	--	--	--	1.20E+08	7.98E-05	0.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	--	--	--	2.40E+04	4.52E-01	44.67%
100-K-14, 126-KE-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.09E+04	--	--	--	3.20E+06	6.53E-03	0.65%
100-K-14, 126-KE-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.98E+05	--	--	--	1.12E+07	3.55E-02	3.52%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	2.40E+04	2.05E-02	2.03%
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.22E+03	--	--	--	4.00E+05	3.06E-03	0.30%
100-K-14, 126-KE-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.91E+03	--	--	--	1.60E+06	4.94E-03	0.49%
100-K-14, 126-KE-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.64E+03	--	--	--	5.68E+08	4.64E-06	0.00%
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	4.00E+05	2.85E-03	0.28%
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	9.58E+02	--	--	--	4.00E+05	2.40E-03	0.24%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.00E+05	2.48E-01	24.50%
100-K-14, 126-KE-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.67E+04	--	--	--	2.40E+07	2.36E-03	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.18E-06**	**--**	**--**	**1.01E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.18E-06**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	6.67E+02	3.59E-06	100.00%	2.40E+04	9.96E-02	11.40%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.60E+07	3.75E-03	0.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Beryllium	7440-41-7	ug/kg	5.02E+02	--	--	--	1.60E+05	3.14E-03	0.36%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Boron	7440-42-8	ug/kg	1.05E+03	--	--	--	1.60E+07	6.54E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Chromium	7440-47-3	ug/kg	6.23E+03	--	--	--	1.20E+08	5.19E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Cobalt	7440-48-4	ug/kg	1.19E+04	--	--	--	2.40E+04	4.97E-01	56.87%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Copper	7440-50-8	ug/kg	1.83E+04	--	--	--	3.20E+06	5.73E-03	0.66%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.12E+07	3.50E-02	4.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Molybdenum	7439-98-7	ug/kg	5.74E+02	--	--	--	4.00E+05	1.43E-03	0.16%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	--	--	--	1.60E+06	6.32E-03	0.72%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nitrate	14797-55-8	ug/kg	1.55E+04	--	--	--	5.68E+08	2.72E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	4.00E+05	5.88E-03	0.67%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	4.80E+07	5.80E-04	0.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Tin	7440-31-5	ug/kg	5.83E+02	--	--	--	4.80E+07	1.21E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	2.40E+05	2.04E-03	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Vanadium	7440-62-2	ug/kg	8.43E+04	--	--	--	4.00E+05	2.11E-01	24.13%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Zinc	7440-66-6	ug/kg	5.37E+04	--	--	--	2.40E+07	2.24E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.59E-06**	**--**	**--**	**8.73E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.59E-06**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	6.67E+02	2.62E-06	100.00%	2.40E+04	7.29E-02	8.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.60E+07	4.39E-03	0.49%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	1.60E+07	1.21E-04	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Chromium	7440-47-3	ug/kg	6.30E+03	--	--	--	1.20E+08	5.25E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	--	--	--	2.40E+04	5.13E-01	56.76%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.20E+06	5.88E-03	0.65%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	--	--	--	2.40E+05	7.25E-04	0.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Manganese	7439-96-5	ug/kg	4.54E+05	--	--	--	1.12E+07	4.05E-02	4.49%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	2.40E+04	1.00E-02	1.11%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.00E+05	1.83E-03	0.20%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nickel	7440-02-0	ug/kg	8.93E+03	--	--	--	1.60E+06	5.58E-03	0.62%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nitrate	14797-55-8	ug/kg	1.23E+04	--	--	--	5.68E+08	2.17E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	4.00E+05	6.00E-03	0.66%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Strontium	7440-24-6	ug/kg	2.79E+04	--	--	--	4.80E+07	5.82E-04	0.06%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Tin	7440-31-5	ug/kg	6.72E+02	--	--	--	4.80E+07	1.40E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Uranium	7440-61-1	ug/kg	4.98E+02	--	--	--	2.40E+05	2.08E-03	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	4.00E+05	2.37E-01	26.28%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Zinc	7440-66-6	ug/kg	5.65E+04	--	--	--	2.40E+07	2.35E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.62E-06**	**--**	**--**	**9.03E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.62E-06**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	6.67E+02	6.50E-06	100.00%	2.40E+04	1.81E-01	18.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.60E+07	4.71E-03	0.47%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.14E+02	--	--	--	1.60E+05	2.59E-03	0.26%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	1.60E+07	1.06E-04	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	9.29E+01	--	--	--	8.00E+04	1.16E-03	0.12%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.10E+03	--	--	--	1.20E+08	7.58E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.26E+04	--	--	--	2.40E+04	5.27E-01	52.69%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.05E+04	--	--	--	3.20E+06	6.40E-03	0.64%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	--	--	--	2.40E+05	9.70E-04	0.10%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.21E+05	--	--	--	1.12E+07	3.76E-02	3.76%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	2.40E+04	2.83E-03	0.28%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.22E+02	--	--	--	4.00E+05	1.56E-03	0.16%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	--	--	--	1.60E+06	7.01E-03	0.70%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.48E+04	--	--	--	5.68E+08	4.37E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	4.00E+05	2.64E-03	0.26%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.43E+04	--	--	--	4.80E+07	7.15E-04	0.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	6.26E+02	--	--	--	4.80E+07	1.30E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.39E+02	--	--	--	2.40E+05	2.66E-03	0.27%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	4.00E+05	2.19E-01	21.88%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.01E+04	--	--	--	2.40E+07	2.51E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.50E-06**	**--**	**--**	**1.00E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.50E-06**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	6.67E+02	2.40E-06	100.00%	2.40E+04	6.67E-02	9.12%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.44E+04	--	--	--	1.60E+07	3.40E-03	0.47%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	--	--	--	1.60E+05	1.31E-03	0.18%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.10E+01	--	--	--	8.00E+04	7.63E-04	0.10%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.60E+03	--	--	--	1.20E+08	8.00E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.40E+03	--	--	--	2.40E+04	3.92E-01	53.60%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.20E+06	5.44E-03	0.74%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	--	--	--	2.40E+05	3.18E-03	0.44%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.94E+05	--	--	--	1.12E+07	2.63E-02	3.59%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	2.40E+04	1.21E-02	1.65%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	5.10E+02	--	--	--	4.00E+05	1.28E-03	0.17%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6.10E+03	--	--	--	1.60E+06	3.81E-03	0.52%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	4.00E+05	4.25E-03	0.58%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	5.30E+01	--	--	--	4.00E+05	1.33E-04	0.02%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	4.80E+07	4.27E-04	0.06%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	4.80E+07	1.00E-05	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	3.80E+02	--	--	--	2.40E+05	1.58E-03	0.22%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	4.00E+05	2.06E-01	28.19%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.57E+04	--	--	--	2.40E+07	2.32E-03	0.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.40E-06**	**--**	**--**	**7.31E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.40E-06**	**--**	**--**	**--**	**--**
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	5.00E+02	1.96E-07	5.38%	1.60E+03	6.13E-02	34.32%
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	6.67E+02	3.45E-06	94.62%	2.40E+04	9.58E-02	53.69%
100-K-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.64E+04	--	--	--	1.60E+07	4.15E-03	2.33%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	--	--	--	8.00E+04	1.63E-03	0.91%
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.47E+04	--	--	--	1.20E+08	2.06E-04	0.12%
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	--	--	--	2.40E+05	1.33E-02	7.47%
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	2.40E+04	2.08E-03	1.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.65E-06**	**--**	**--**	**1.78E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.65E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Americium-241	14596-10-2	pCi/g	2.48E-02	1.53E+02	1.62E-08	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.20E-02	4.40E+00	1.41E-06	4.20%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.74E-02	2.03E+02	1.35E-08	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Strontium-90	10098-97-2	pCi/g	7.20E-01	2.28E+00	3.16E-05	94.08%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	1.81E-01	1.33E+02	1.36E-07	0.41%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-235	15117-96-1	pCi/g	1.18E-02	1.54E+01	7.65E-08	0.23%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Uranium-238	U-238	pCi/g	1.75E-01	5.20E+01	3.36E-07	1.00%	--	--	--
Total Radiological Risk Estimate							**3.36E-05**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.70E-02	4.40E+00	8.41E-07	0.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	6.20E+00	2.28E+00	2.72E-04	99.58%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.10E-01	1.33E+02	8.27E-08	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	1.10E-01	5.20E+01	2.12E-07	0.08%	--	--	--
Total Radiological Risk Estimate							**2.73E-04**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Americium-241	14596-10-2	pCi/g	1.80E-01	1.53E+02	1.18E-07	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	2.36E+02	1.53E-08	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.40E-01	2.03E+02	6.90E-08	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Strontium-90	10098-97-2	pCi/g	5.40E+00	2.28E+00	2.37E-04	99.71%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-233/234	U-233/234	pCi/g	1.30E-01	1.33E+02	9.77E-08	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-235	15117-96-1	pCi/g	1.70E-02	1.54E+01	1.10E-07	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Uranium-238	U-238	pCi/g	1.40E-01	5.20E+01	2.69E-07	0.11%	--	--	--
Total Radiological Risk Estimate							**2.38E-04**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.60E+02	--	--	--	4.80E+06	3.33E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	2.10E+00	--	--	--	2.40E+07	8.75E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.74E+02	--	--	--	3.20E+04	1.17E-02	1.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	5.00E+02	3.40E-08	0.65%	1.60E+03	1.06E-02	1.45%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	5.00E+02	4.80E-08	0.91%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	6.67E+02	5.06E-06	96.41%	2.40E+04	1.41E-01	19.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.60E+07	4.39E-03	0.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	1.00E+04	4.90E-09	0.09%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	1.00E+03	4.90E-08	0.93%	2.40E+04	2.04E-03	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	1.00E+04	7.30E-09	0.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	1.00E+05	3.20E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.12E+02	--	--	--	1.60E+05	1.95E-03	0.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.60E+07	1.19E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	9.72E+01	--	--	--	8.00E+04	1.21E-03	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.67E+03	--	--	--	1.20E+08	6.39E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	1.00E+06	7.50E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	--	--	--	2.40E+04	3.81E-01	52.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.75E+04	--	--	--	3.20E+06	5.48E-03	0.75%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	1.00E+03	4.20E-08	0.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.81E+01	--	--	--	3.20E+06	2.75E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.30E+00	--	--	--	3.20E+06	1.97E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	--	--	--	2.40E+05	4.25E-04	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	1.00E+04	2.70E-09	0.05%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.45E+05	--	--	--	1.12E+07	3.08E-02	4.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	2.40E+04	2.09E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.00E+05	1.83E-03	0.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	--	--	--	1.60E+06	2.44E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	--	--	--	1.60E+06	6.52E-03	0.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.26E+04	--	--	--	5.68E+08	2.22E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.40E+06	2.75E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.58E+02	--	--	--	4.00E+05	6.45E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.63E+01	--	--	--	4.00E+05	9.08E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.11E+04	--	--	--	4.80E+07	6.47E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.03E+02	--	--	--	4.80E+07	1.05E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.64E+02	--	--	--	2.40E+05	1.93E-03	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.95E+04	--	--	--	4.00E+05	1.24E-01	16.95%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.90E+04	--	--	--	2.40E+07	2.04E-03	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.25E-06**	**--**	**--**	**7.30E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	3.10E-02	1.53E+02	2.03E-08	0.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.93E-01	4.40E+00	6.67E-06	58.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.50E-01	3.60E+00	4.17E-06	36.27%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.72E-02	2.03E+02	1.34E-08	0.12%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	1.33E+02	1.35E-07	1.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.75E-02	1.54E+01	1.14E-07	0.99%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-238	U-238	pCi/g	1.93E-01	5.20E+01	3.72E-07	3.24%	--	--	--
Total Radiological Risk Estimate							**1.15E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.67E-05**	**--**	**--**	**--**	**--**

100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	ug/kg	4.90E+01	--	--	--	4.80E+06	1.02E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	5.00E+02	2.40E-08	0.96%	1.60E+03	7.50E-03	1.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.64E+03	6.67E+02	2.46E-06	98.58%	2.40E+04	6.83E-02	12.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	4.88E+04	--	--	--	1.60E+07	3.05E-03	0.57%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	1.00E+04	1.10E-09	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	1.00E+03	8.10E-09	0.32%	2.40E+04	3.38E-04	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	1.00E+04	1.50E-09	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	1.00E+05	7.60E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1.97E+02	--	--	--	1.60E+05	1.23E-03	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	2.90E+03	--	--	--	1.20E+08	2.42E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.00E+06	1.80E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8.12E+03	--	--	--	2.40E+04	3.38E-01	63.69%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.47E+04	--	--	--	3.20E+06	4.59E-03	0.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	3.20E+06	7.50E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	1.00E+04	5.30E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.12E+07	2.30E-02	4.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2.24E+02	--	--	--	4.00E+05	5.60E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	--	--	--	1.60E+06	1.44E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	6.37E+03	--	--	--	1.60E+06	3.98E-03	0.75%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	8.68E+03	--	--	--	5.68E+08	1.53E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.40E+06	7.92E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.40E+04	--	--	--	4.80E+07	5.00E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	3.45E+02	--	--	--	4.80E+07	7.19E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.69E+02	--	--	--	2.40E+05	1.54E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	3.07E+04	--	--	--	4.00E+05	7.68E-02	14.45%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	3.36E+04	--	--	--	2.40E+07	1.40E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.50E-06**	**--**	**--**	**5.31E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	5.70E-02	4.40E+00	1.30E-06	73.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	1.30E-01	1.33E+02	9.77E-08	5.51%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	1.70E-02	1.54E+01	1.10E-07	6.23%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	1.40E-01	5.20E+01	2.69E-07	15.19%	--	--	--
Total Radiological Risk Estimate							**1.77E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**4.27E-06**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.11E+03	6.67E+02	3.16E-06	99.97%	2.40E+04	8.79E-02	13.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	6.89E+04	--	--	--	1.60E+07	4.31E-03	0.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	1.00E+03	1.00E-09	0.03%	2.40E+04	4.17E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	--	--	--	1.60E+05	1.89E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6.92E+03	--	--	--	1.20E+08	5.77E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.86E+03	--	--	--	2.40E+04	4.11E-01	62.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.89E+04	--	--	--	3.20E+06	5.91E-03	0.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	4.50E+00	--	--	--	3.20E+06	1.41E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.35E+05	--	--	--	1.12E+07	2.99E-02	4.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	2.42E+02	--	--	--	4.00E+05	6.05E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	--	--	--	1.60E+06	6.94E-03	1.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	3.00E+02	--	--	--	4.00E+05	7.50E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	4.80E+07	6.58E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	4.80E+07	9.29E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.85E+02	--	--	--	2.40E+05	2.02E-03	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.24E+04	--	--	--	4.00E+05	1.06E-01	16.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	4.25E+04	--	--	--	2.40E+07	1.77E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.17E-06**	--	--	**6.60E-01**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.10E-02	1.53E+02	1.37E-08	2.74%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E-02	2.03E+02	7.88E-09	1.57%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	1.70E-01	1.33E+02	1.28E-07	25.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-235	15117-96-1	pCi/g	9.70E-03	1.54E+01	6.30E-08	12.58%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	57.59%	--	--	--
Total Radiological Risk Estimate							**5.01E-07**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**3.67E-06**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	2.10E+03	6.67E+02	3.15E-06	100.00%	2.40E+04	8.75E-02	15.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.68E+04	--	--	--	1.60E+07	3.55E-03	0.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.83E+02	--	--	--	1.60E+05	1.77E-03	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.63E+01	--	--	--	8.00E+04	7.04E-04	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	4.96E+03	--	--	--	1.20E+08	4.13E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	8.13E+03	--	--	--	2.40E+04	3.39E-01	60.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.57E+04	--	--	--	3.20E+06	4.91E-03	0.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.66E+05	--	--	--	1.12E+07	2.38E-02	4.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	2.22E+02	--	--	--	4.00E+05	5.55E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	7.71E+03	--	--	--	1.60E+06	4.82E-03	0.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	2.55E+04	--	--	--	4.80E+07	5.31E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.04E+02	--	--	--	4.80E+07	8.42E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	2.40E+05	1.70E-03	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	3.56E+04	--	--	--	4.00E+05	8.90E-02	15.92%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	3.38E+04	--	--	--	2.40E+07	1.41E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.15E-06**	--	--	**5.59E-01**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	21.23%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-235	15117-96-1	pCi/g	2.00E-02	1.54E+01	1.30E-07	24.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	54.31%	--	--	--
Total Radiological Risk Estimate							**5.31E-07**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**3.68E-06**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	ug/kg	6.40E+01	--	--	--	4.80E+06	1.33E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	6.67E+02	4.24E-06	99.58%	2.40E+04	1.18E-01	20.54%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Barium	7440-39-3	ug/kg	6.25E+04	--	--	--	1.60E+07	3.91E-03	0.68%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	1.00E+04	1.30E-09	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	1.00E+03	1.40E-08	0.33%	2.40E+04	5.83E-04	0.10%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	1.00E+04	1.90E-09	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	1.00E+05	8.10E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Beryllium	7440-41-7	ug/kg	2.67E+02	--	--	--	1.60E+05	1.67E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Boron	7440-42-8	ug/kg	9.58E+02	--	--	--	1.60E+07	5.99E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cadmium	7440-43-9	ug/kg	7.03E+01	--	--	--	8.00E+04	8.79E-04	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chromium	7440-47-3	ug/kg	5.90E+03	--	--	--	1.20E+08	4.92E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	1.00E+06	2.10E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cobalt	7440-48-4	ug/kg	8.03E+03	--	--	--	2.40E+04	3.35E-01	58.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Copper	7440-50-8	ug/kg	1.48E+04	--	--	--	3.20E+06	4.63E-03	0.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+01	--	--	--	3.20E+06	1.03E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	3.20E+06	1.38E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	1.00E+04	7.70E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.12E+07	2.71E-02	4.71%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Molybdenum	7439-98-7	ug/kg	2.23E+02	--	--	--	4.00E+05	5.58E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	--	--	--	1.60E+06	2.69E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Nickel	7440-02-0	ug/kg	9.52E+03	--	--	--	1.60E+06	5.95E-03	1.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.40E+06	9.58E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	ug/kg	3.07E+04	--	--	--	4.80E+07	6.40E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	ug/kg	3.41E+02	--	--	--	4.80E+07	7.10E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	2.40E+05	2.11E-03	0.37%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Vanadium	7440-62-2	ug/kg	2.88E+04	--	--	--	4.00E+05	7.20E-02	12.54%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Zinc	7440-66-6	ug/kg	3.67E+04	--	--	--	2.40E+07	1.53E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.26E-06**	**--**	**--**	**5.74E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-02	2.03E+02	9.85E-09	2.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	24.95%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-235	15117-96-1	pCi/g	6.30E-03	1.54E+01	4.09E-08	9.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	63.82%	--	--	--
Total Radiological Risk Estimate							**4.52E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.72E-06**	**--**	**--**	**--**	**--**

100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	ug/kg	2.10E+02	--	--	--	4.80E+06	4.38E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	ug/kg	2.99E+03	6.67E+02	4.48E-06	97.12%	2.40E+04	1.25E-01	19.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.60E+07	4.36E-03	0.68%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	1.00E+04	6.70E-09	0.15%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	1.00E+03	6.20E-08	1.34%	2.40E+04	2.58E-03	0.40%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	1.00E+04	8.80E-09	0.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	1.00E+05	3.80E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	--	--	--	1.60E+05	1.73E-03	0.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	1.60E+07	1.06E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cadmium	7440-43-9	ug/kg	7.52E+01	--	--	--	8.00E+04	9.40E-04	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chromium	7440-47-3	ug/kg	8.67E+03	--	--	--	1.20E+08	7.23E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	1.00E+06	8.10E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cobalt	7440-48-4	ug/kg	8.98E+03	--	--	--	2.40E+04	3.74E-01	58.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.20E+06	5.28E-03	0.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	1.00E+03	5.10E-08	1.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	ug/kg	8.10E+01	--	--	--	3.20E+06	2.53E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	1.00E+04	4.00E-09	0.09%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.12E+07	2.84E-02	4.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Molybdenum	7439-98-7	ug/kg	2.73E+02	--	--	--	4.00E+05	6.83E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	--	--	--	1.60E+06	6.44E-03	1.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nitrate	14797-55-8	ug/kg	5.00E+03	--	--	--	5.68E+08	8.80E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	ug/kg	7.70E+01	--	--	--	2.40E+06	3.21E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	4.80E+07	7.10E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	ug/kg	3.98E+02	--	--	--	4.80E+07	8.29E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	2.40E+05	2.11E-03	0.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Vanadium	7440-62-2	ug/kg	3.60E+04	--	--	--	4.00E+05	9.00E-02	13.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Zinc	7440-66-6	ug/kg	3.88E+04	--	--	--	2.40E+07	1.62E-03	0.25%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.62E-06**	**--**	**--**	**6.44E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-233/234	U-233/234	pCi/g	2.00E-01	1.33E+02	1.50E-07	23.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-235	15117-96-1	pCi/g	7.00E-03	1.54E+01	4.55E-08	7.12%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-238	U-238	pCi/g	2.30E-01	5.20E+01	4.42E-07	69.31%	--	--	--
Total Radiological Risk Estimate							**6.38E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.26E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	ug/kg	5.50E+02	--	--	--	4.80E+06	1.15E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	ug/kg	1.20E+01	--	--	--	2.40E+07	5.00E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	ug/kg	3.19E+02	--	--	--	3.20E+04	9.97E-03	1.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	6.67E+02	5.55E-06	96.89%	2.40E+04	1.54E-01	24.42%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Barium	7440-39-3	ug/kg	5.52E+04	--	--	--	1.60E+07	3.45E-03	0.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	1.00E+04	9.90E-09	0.17%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	1.00E+03	1.10E-07	1.92%	2.40E+04	4.58E-03	0.73%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	1.00E+04	1.50E-08	0.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	1.00E+05	6.30E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Beryllium	7440-41-7	ug/kg	2.91E+02	--	--	--	1.60E+05	1.82E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Boron	7440-42-8	ug/kg	2.97E+03	--	--	--	1.60E+07	1.86E-04	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cadmium	7440-43-9	ug/kg	6.26E+01	--	--	--	8.00E+04	7.83E-04	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chromium	7440-47-3	ug/kg	8.39E+03	--	--	--	1.20E+08	6.99E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	1.00E+06	1.70E-10	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cobalt	7440-48-4	ug/kg	8.39E+03	--	--	--	2.40E+04	3.50E-01	55.38%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.20E+06	5.16E-03	0.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	1.00E+03	3.50E-08	0.61%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	ug/kg	2.10E+02	--	--	--	3.20E+06	6.56E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	1.00E+04	7.30E-09	0.13%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Manganese	7439-96-5	ug/kg	2.75E+05	--	--	--	1.12E+07	2.46E-02	3.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.00E+05	1.21E-03	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Nickel	7440-02-0	ug/kg	1.91E+04	--	--	--	1.60E+06	1.19E-02	1.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	ug/kg	1.30E+02	--	--	--	2.40E+06	5.42E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	ug/kg	3.05E+04	--	--	--	4.80E+07	6.35E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	ug/kg	9.83E+02	--	--	--	4.80E+07	2.05E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Uranium	7440-61-1	ug/kg	4.37E+02	--	--	--	2.40E+05	1.82E-03	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Vanadium	7440-62-2	ug/kg	2.39E+04	--	--	--	4.00E+05	5.98E-02	9.46%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Zinc	7440-66-6	ug/kg	3.27E+04	--	--	--	2.40E+07	1.36E-03	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.73E-06**	**--**	**--**	**6.31E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	1.53E+02	1.44E-08	2.94%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-233/234	U-233/234	pCi/g	1.10E-01	1.33E+02	8.27E-08	16.94%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-235	15117-96-1	pCi/g	9.90E-03	1.54E+01	6.43E-08	13.17%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-238	U-238	pCi/g	1.70E-01	5.20E+01	3.27E-07	66.95%	--	--	--
Total Radiological Risk Estimate							**4.88E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.22E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+02	--	--	--	4.80E+06	6.46E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	ug/kg	2.68E+03	6.67E+02	4.02E-06	98.88%	2.40E+04	1.12E-01	18.21%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Barium	7440-39-3	ug/kg	6.16E+04	--	--	--	1.60E+07	3.85E-03	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	1.00E+04	6.50E-09	0.16%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	1.00E+03	3.10E-08	0.76%	2.40E+04	1.29E-03	0.21%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	1.00E+04	5.70E-09	0.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	1.00E+05	2.50E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Beryllium	7440-41-7	ug/kg	3.42E+02	--	--	--	1.60E+05	2.14E-03	0.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Boron	7440-42-8	ug/kg	1.60E+03	--	--	--	1.60E+07	1.00E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cadmium	7440-43-9	ug/kg	7.16E+01	--	--	--	8.00E+04	8.95E-04	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chromium	7440-47-3	ug/kg	7.71E+03	--	--	--	1.20E+08	6.43E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	1.00E+06	8.70E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cobalt	7440-48-4	ug/kg	8.67E+03	--	--	--	2.40E+04	3.61E-01	58.92%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.20E+06	4.88E-03	0.80%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	3.20E+06	4.69E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	1.00E+04	2.20E-09	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.12E+07	2.75E-02	4.49%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Molybdenum	7439-98-7	ug/kg	2.82E+02	--	--	--	4.00E+05	7.05E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	--	--	--	1.60E+06	6.38E-03	1.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	ug/kg	1.00E+02	--	--	--	2.40E+06	4.17E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	ug/kg	3.12E+04	--	--	--	4.80E+07	6.50E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	ug/kg	4.12E+02	--	--	--	4.80E+07	8.58E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Uranium	7440-61-1	ug/kg	4.84E+02	--	--	--	2.40E+05	2.02E-03	0.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Vanadium	7440-62-2	ug/kg	3.52E+04	--	--	--	4.00E+05	8.80E-02	14.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Zinc	7440-66-6	ug/kg	3.86E+04	--	--	--	2.40E+07	1.61E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.07E-06**	**--**	**--**	**6.13E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-233/234	U-233/234	pCi/g	1.60E-01	1.33E+02	1.20E-07	24.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-235	15117-96-1	pCi/g	7.70E-03	1.54E+01	5.00E-08	10.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-238	U-238	pCi/g	1.70E-01	5.20E+01	3.27E-07	65.75%	--	--	--
Total Radiological Risk Estimate							**4.97E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.56E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	ug/kg	2.70E+01	--	--	--	4.80E+06	5.63E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	6.67E+02	4.24E-06	99.91%	2.40E+04	1.18E-01	19.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Barium	7440-39-3	ug/kg	6.22E+04	--	--	--	1.60E+07	3.89E-03	0.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	1.00E+04	5.30E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	1.00E+03	2.40E-09	0.06%	2.40E+04	1.00E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	1.00E+04	5.60E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	1.00E+05	1.90E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	--	--	--	1.60E+05	1.94E-03	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chromium	7440-47-3	ug/kg	4.71E+03	--	--	--	1.20E+08	3.93E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	1.00E+06	9.30E-12	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Cobalt	7440-48-4	ug/kg	8.77E+03	--	--	--	2.40E+04	3.65E-01	60.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.20E+06	5.75E-03	0.95%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	ug/kg	1.60E+01	--	--	--	3.20E+06	5.00E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	1.00E+04	1.40E-10	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Manganese	7439-96-5	ug/kg	2.90E+05	--	--	--	1.12E+07	2.59E-02	4.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Molybdenum	7439-98-7	ug/kg	2.15E+02	--	--	--	4.00E+05	5.38E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Nickel	7440-02-0	ug/kg	8.65E+03	--	--	--	1.60E+06	5.41E-03	0.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	ug/kg	9.10E+00	--	--	--	2.40E+06	3.79E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Selenium	7782-49-2	ug/kg	3.01E+02	--	--	--	4.00E+05	7.53E-04	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	ug/kg	3.00E+04	--	--	--	4.80E+07	6.25E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	ug/kg	3.76E+02	--	--	--	4.80E+07	7.83E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Uranium	7440-61-1	ug/kg	4.36E+02	--	--	--	2.40E+05	1.82E-03	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Vanadium	7440-62-2	ug/kg	3.06E+04	--	--	--	4.00E+05	7.65E-02	12.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Zinc	7440-66-6	ug/kg	3.80E+04	--	--	--	2.40E+07	1.58E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.25E-06**	**--**	**--**	**6.08E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	1.53E+02	1.44E-08	2.54%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	1.33E+02	1.35E-07	23.89%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-235	15117-96-1	pCi/g	7.90E-03	1.54E+01	5.13E-08	9.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-238	U-238	pCi/g	1.90E-01	5.20E+01	3.65E-07	64.51%	--	--	--
Total Radiological Risk Estimate							**5.66E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.82E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	ug/kg	3.09E+03	6.67E+02	4.63E-06	99.98%	2.40E+04	1.29E-01	20.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Barium	7440-39-3	ug/kg	6.42E+04	--	--	--	1.60E+07	4.01E-03	0.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	1.00E+03	1.10E-09	0.02%	2.40E+04	4.58E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Beryllium	7440-41-7	ug/kg	2.72E+02	--	--	--	1.60E+05	1.70E-03	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Boron	7440-42-8	ug/kg	8.06E+02	--	--	--	1.60E+07	5.04E-05	0.01%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cadmium	7440-43-9	ug/kg	8.69E+01	--	--	--	8.00E+04	1.09E-03	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Chromium	7440-47-3	ug/kg	8.67E+03	--	--	--	1.20E+08	7.23E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cobalt	7440-48-4	ug/kg	8.26E+03	--	--	--	2.40E+04	3.44E-01	55.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Copper	7440-50-8	ug/kg	1.68E+04	--	--	--	3.20E+06	5.25E-03	0.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	ug/kg	5.20E+00	--	--	--	3.20E+06	1.63E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.12E+07	2.89E-02	4.70%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Molybdenum	7439-98-7	ug/kg	2.72E+02	--	--	--	4.00E+05	6.80E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	--	--	--	1.60E+06	6.94E-03	1.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nitrate	14797-55-8	ug/kg	1.74E+04	--	--	--	5.68E+08	3.06E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	ug/kg	2.80E+00	--	--	--	2.40E+06	1.17E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	ug/kg	2.99E+04	--	--	--	4.80E+07	6.23E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	ug/kg	3.99E+02	--	--	--	4.80E+07	8.31E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Uranium	7440-61-1	ug/kg	5.29E+02	--	--	--	2.40E+05	2.20E-03	0.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Vanadium	7440-62-2	ug/kg	3.58E+04	--	--	--	4.00E+05	8.95E-02	14.54%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Zinc	7440-66-6	ug/kg	4.02E+04	--	--	--	2.40E+07	1.68E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.64E-06**	**--**	**--**	**6.16E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	18.15%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-235	15117-96-1	pCi/g	2.80E-02	1.54E+01	1.82E-07	29.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-238	U-238	pCi/g	1.70E-01	5.20E+01	3.27E-07	52.60%	--	--	--
Total Radiological Risk Estimate							**6.22E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.26E-06**	**--**	**--**	**--**	**--**

100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	ug/kg	1.40E+03	--	--	--	4.80E+06	2.92E-04	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	ug/kg	2.61E+03	6.67E+02	3.91E-06	94.12%	2.40E+04	1.09E-01	18.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Barium	7440-39-3	ug/kg	5.80E+04	--	--	--	1.60E+07	3.63E-03	0.61%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	1.00E+04	2.80E-08	0.67%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.00E+03	1.20E-07	2.88%	2.40E+04	5.00E-03	0.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.00E+04	2.10E-08	0.50%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	1.00E+05	9.60E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	--	--	--	1.60E+05	1.85E-03	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	1.60E+07	3.12E-04	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chromium	7440-47-3	ug/kg	6.70E+03	--	--	--	1.20E+08	5.58E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	1.00E+06	3.50E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Cobalt	7440-48-4	ug/kg	8.15E+03	--	--	--	2.40E+04	3.40E-01	56.76%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.20E+06	5.16E-03	0.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	1.00E+03	6.80E-08	1.63%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	ug/kg	8.80E+02	--	--	--	3.20E+06	2.75E-04	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	ug/kg	1.00E+02	--	--	--	3.20E+06	3.13E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	1.00E+04	6.30E-09	0.15%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Manganese	7439-96-5	ug/kg	3.06E+05	--	--	--	1.12E+07	2.73E-02	4.57%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Molybdenum	7439-98-7	ug/kg	2.50E+02	--	--	--	4.00E+05	6.25E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	--	--	--	1.60E+06	5.94E-03	0.99%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nitrate	14797-55-8	ug/kg	4.56E+03	--	--	--	5.68E+08	8.03E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+02	--	--	--	2.40E+06	2.46E-04	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	ug/kg	2.65E+04	--	--	--	4.80E+07	5.52E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	ug/kg	4.03E+02	--	--	--	4.80E+07	8.40E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Uranium	7440-61-1	ug/kg	3.70E+02	--	--	--	2.40E+05	1.54E-03	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Vanadium	7440-62-2	ug/kg	3.82E+04	--	--	--	4.00E+05	9.55E-02	15.96%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Zinc	7440-66-6	ug/kg	3.82E+04	--	--	--	2.40E+07	1.59E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.16E-06**	**--**	**--**	**5.98E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-233/234	U-233/234	pCi/g	1.70E-01	1.33E+02	1.28E-07	23.50%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-235	15117-96-1	pCi/g	7.80E-03	1.54E+01	5.06E-08	9.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-238	U-238	pCi/g	1.90E-01	5.20E+01	3.65E-07	67.18%	--	--	--
Total Radiological Risk Estimate							**5.44E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.70E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+01	--	--	--	4.80E+06	6.46E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	ug/kg	4.60E+00	--	--	--	2.40E+07	1.92E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	ug/kg	2.70E+03	6.67E+02	4.05E-06	99.71%	2.40E+04	1.13E-01	17.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Barium	7440-39-3	ug/kg	6.60E+04	--	--	--	1.60E+07	4.13E-03	0.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	1.00E+04	7.90E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	1.00E+03	7.50E-09	0.18%	2.40E+04	3.13E-04	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	1.00E+04	1.10E-09	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	1.00E+05	4.50E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Beryllium	7440-41-7	ug/kg	2.29E+02	--	--	--	1.60E+05	1.43E-03	0.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cadmium	7440-43-9	ug/kg	6.36E+01	--	--	--	8.00E+04	7.95E-04	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chromium	7440-47-3	ug/kg	6.52E+03	--	--	--	1.20E+08	5.43E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	1.00E+06	1.90E-09	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cobalt	7440-48-4	ug/kg	9.36E+03	--	--	--	2.40E+04	3.90E-01	60.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.20E+06	5.88E-03	0.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	3.20E+06	7.50E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	ug/kg	4.10E+00	--	--	--	3.20E+06	1.28E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	1.00E+04	5.60E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.12E+07	2.96E-02	4.59%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Molybdenum	7439-98-7	ug/kg	2.44E+02	--	--	--	4.00E+05	6.10E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	--	--	--	1.60E+06	6.56E-03	1.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+01	--	--	--	2.40E+06	2.46E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	4.80E+07	6.67E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	ug/kg	4.31E+02	--	--	--	4.80E+07	8.98E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Uranium	7440-61-1	ug/kg	5.28E+02	--	--	--	2.40E+05	2.20E-03	0.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Vanadium	7440-62-2	ug/kg	3.51E+04	--	--	--	4.00E+05	8.78E-02	13.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Zinc	7440-66-6	ug/kg	3.92E+04	--	--	--	2.40E+07	1.63E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.06E-06**	**--**	**--**	**6.44E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	pCi/g	7.00E-02	1.53E+02	4.58E-08	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Cesium-137	10045-97-3	pCi/g	5.00E-01	4.40E+00	1.14E-05	14.57%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.20E-01	2.03E+02	5.91E-08	0.08%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+00	2.28E+00	6.58E-05	84.37%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-233/234	U-233/234	pCi/g	2.30E-01	1.33E+02	1.73E-07	0.22%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-235	15117-96-1	pCi/g	2.20E-02	1.54E+01	1.43E-07	0.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-238	U-238	pCi/g	2.10E-01	5.20E+01	4.04E-07	0.52%	--	--	--
Total Radiological Risk Estimate							**7.80E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.20E-05**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	6.67E+02	1.93E-06	100.00%	2.40E+04	5.38E-02	11.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Barium	7440-39-3	ug/kg	4.00E+04	--	--	--	1.60E+07	2.50E-03	0.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Beryllium	7440-41-7	ug/kg	1.75E+02	--	--	--	1.60E+05	1.09E-03	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Boron	7440-42-8	ug/kg	5.49E+02	--	--	--	1.60E+07	3.43E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Chromium	7440-47-3	ug/kg	1.45E+03	--	--	--	1.20E+08	1.21E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	--	--	--	2.40E+04	3.26E-01	68.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Copper	7440-50-8	ug/kg	1.44E+04	--	--	--	3.20E+06	4.50E-03	0.95%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	ug/kg	5.70E+00	--	--	--	3.20E+06	1.78E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Manganese	7439-96-5	ug/kg	2.05E+05	--	--	--	1.12E+07	1.83E-02	3.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Molybdenum	7439-98-7	ug/kg	1.75E+02	--	--	--	4.00E+05	4.38E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Nickel	7440-02-0	ug/kg	5.20E+03	--	--	--	1.60E+06	3.25E-03	0.68%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Selenium	7782-49-2	ug/kg	2.82E+02	--	--	--	4.00E+05	7.05E-04	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	ug/kg	2.16E+04	--	--	--	4.80E+07	4.50E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	ug/kg	2.83E+02	--	--	--	4.80E+07	5.90E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Uranium	7440-61-1	ug/kg	3.73E+02	--	--	--	2.40E+05	1.55E-03	0.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Vanadium	7440-62-2	ug/kg	2.47E+04	--	--	--	4.00E+05	6.18E-02	12.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Zinc	7440-66-6	ug/kg	2.73E+04	--	--	--	2.40E+07	1.14E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.93E-06**	**--**	**--**	**4.76E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	17.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-235	15117-96-1	pCi/g	3.00E-02	1.54E+01	1.95E-07	29.80%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-238	U-238	pCi/g	1.80E-01	5.20E+01	3.46E-07	52.95%	--	--	--
Total Radiological Risk Estimate							**6.54E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.59E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	ug/kg	4.10E+02	--	--	--	4.80E+06	8.54E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	ug/kg	2.90E+01	--	--	--	2.40E+07	1.21E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	6.67E+02	3.58E-06	97.23%	2.40E+04	9.96E-02	20.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Barium	7440-39-3	ug/kg	5.18E+04	--	--	--	1.60E+07	3.24E-03	0.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	1.00E+04	1.50E-08	0.41%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	1.00E+03	7.10E-08	1.93%	2.40E+04	2.96E-03	0.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	1.00E+04	1.20E-08	0.33%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	1.00E+05	5.60E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Beryllium	7440-41-7	ug/kg	2.47E+02	--	--	--	1.60E+05	1.54E-03	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Boron	7440-42-8	ug/kg	2.01E+03	--	--	--	1.60E+07	1.26E-04	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cadmium	7440-43-9	ug/kg	6.22E+01	--	--	--	8.00E+04	7.78E-04	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chromium	7440-47-3	ug/kg	7.09E+03	--	--	--	1.20E+08	5.91E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	1.00E+06	2.00E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cobalt	7440-48-4	ug/kg	6.86E+03	--	--	--	2.40E+04	2.86E-01	58.38%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Copper	7440-50-8	ug/kg	1.38E+04	--	--	--	3.20E+06	4.31E-03	0.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+02	--	--	--	3.20E+06	1.03E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	3.20E+06	1.38E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	1.00E+04	3.20E-09	0.09%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Manganese	7439-96-5	ug/kg	2.47E+05	--	--	--	1.12E+07	2.21E-02	4.50%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Molybdenum	7439-98-7	ug/kg	2.11E+02	--	--	--	4.00E+05	5.28E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	--	--	--	1.60E+06	1.75E-04	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nickel	7440-02-0	ug/kg	8.64E+03	--	--	--	1.60E+06	5.40E-03	1.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nitrate	14797-55-8	ug/kg	4.39E+03	--	--	--	5.68E+08	7.73E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	ug/kg	2.20E+02	--	--	--	2.40E+06	9.17E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	4.80E+07	6.21E-04	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	ug/kg	2.84E+02	--	--	--	4.80E+07	5.92E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Uranium	7440-61-1	ug/kg	3.71E+02	--	--	--	2.40E+05	1.55E-03	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Vanadium	7440-62-2	ug/kg	2.37E+04	--	--	--	4.00E+05	5.93E-02	12.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Zinc	7440-66-6	ug/kg	3.11E+04	--	--	--	2.40E+07	1.30E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.69E-06**	**--**	**--**	**4.90E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	pCi/g	3.00E-02	1.53E+02	1.96E-08	3.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.80E-02	2.03E+02	8.87E-09	1.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	1.33E+02	1.35E-07	23.78%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-235	15117-96-1	pCi/g	1.80E-02	1.54E+01	1.17E-07	20.54%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	50.68%	--	--	--
Total Radiological Risk Estimate							**5.69E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.26E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	ug/kg	5.80E+01	--	--	--	4.80E+06	1.21E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	5.00E+02	5.60E-08	2.12%	1.60E+03	1.75E-02	3.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	ug/kg	1.71E+03	6.67E+02	2.56E-06	97.29%	2.40E+04	7.13E-02	13.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Barium	7440-39-3	ug/kg	4.54E+04	--	--	--	1.60E+07	2.84E-03	0.54%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	1.00E+04	1.20E-09	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	1.00E+03	1.20E-08	0.46%	2.40E+04	5.00E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.00E+04	1.40E-09	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	1.00E+05	6.90E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Beryllium	7440-41-7	ug/kg	1.89E+02	--	--	--	1.60E+05	1.18E-03	0.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cadmium	7440-43-9	ug/kg	8.28E+01	--	--	--	8.00E+04	1.04E-03	0.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chromium	7440-47-3	ug/kg	2.37E+03	--	--	--	1.20E+08	1.98E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.00E+06	1.80E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	--	--	--	2.40E+04	3.30E-01	62.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.20E+06	4.88E-03	0.93%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	3.20E+06	9.06E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	ug/kg	4.50E+00	--	--	--	3.20E+06	1.41E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	1.00E+04	7.40E-10	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Manganese	7439-96-5	ug/kg	2.18E+05	--	--	--	1.12E+07	1.95E-02	3.70%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Molybdenum	7439-98-7	ug/kg	2.34E+02	--	--	--	4.00E+05	5.85E-04	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	--	--	--	1.60E+06	1.81E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Nickel	7440-02-0	ug/kg	5.65E+03	--	--	--	1.60E+06	3.53E-03	0.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.40E+06	9.58E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	ug/kg	2.32E+04	--	--	--	4.80E+07	4.83E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	ug/kg	3.18E+02	--	--	--	4.80E+07	6.63E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	2.40E+05	1.70E-03	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Vanadium	7440-62-2	ug/kg	2.81E+04	--	--	--	4.00E+05	7.03E-02	13.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Zinc	7440-66-6	ug/kg	3.09E+04	--	--	--	2.40E+07	1.29E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.64E-06**	**--**	**--**	**5.27E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.10E-02	2.03E+02	5.42E-09	1.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-233/234	U-233/234	pCi/g	1.20E-01	1.33E+02	9.02E-08	18.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-235	15117-96-1	pCi/g	1.40E-02	1.54E+01	9.09E-08	18.39%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-238	U-238	pCi/g	1.60E-01	5.20E+01	3.08E-07	62.25%	--	--	--
Total Radiological Risk Estimate							**4.94E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.13E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	ug/kg	3.92E+02	--	--	--	3.20E+04	1.23E-02	1.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	5.00E+02	5.00E-07	7.96%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	ug/kg	3.83E+03	6.67E+02	5.74E-06	91.51%	2.40E+04	1.60E-01	21.48%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Barium	7440-39-3	ug/kg	7.26E+04	--	--	--	1.60E+07	4.54E-03	0.61%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	1.00E+04	3.60E-09	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	1.00E+03	2.30E-08	0.37%	2.40E+04	9.58E-04	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	1.00E+04	3.50E-09	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	1.00E+05	1.50E-10	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	--	--	--	1.60E+05	2.23E-03	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Boron	7440-42-8	ug/kg	1.45E+03	--	--	--	1.60E+07	9.06E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cadmium	7440-43-9	ug/kg	1.04E+02	--	--	--	8.00E+04	1.30E-03	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chromium	7440-47-3	ug/kg	6.60E+03	--	--	--	1.20E+08	5.50E-05	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	1.00E+06	4.10E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	--	--	--	2.40E+04	4.03E-01	54.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.20E+06	5.75E-03	0.77%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	ug/kg	8.90E+01	--	--	--	3.20E+06	2.78E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	1.00E+04	2.40E-09	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Manganese	7439-96-5	ug/kg	3.21E+05	--	--	--	1.12E+07	2.87E-02	3.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	ug/kg	6.25E+02	--	--	--	4.00E+05	1.56E-03	0.21%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nickel	7440-02-0	ug/kg	9.75E+03	--	--	--	1.60E+06	6.09E-03	0.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nitrate	14797-55-8	ug/kg	4.65E+03	--	--	--	5.68E+08	8.19E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.40E+06	2.75E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Selenium	7782-49-2	ug/kg	2.73E+02	--	--	--	4.00E+05	6.83E-04	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Silver	7440-22-4	ug/kg	5.87E+01	--	--	--	4.00E+05	1.47E-04	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	ug/kg	3.49E+04	--	--	--	4.80E+07	7.27E-04	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	ug/kg	5.72E+02	--	--	--	4.80E+07	1.19E-05	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Uranium	7440-61-1	ug/kg	5.48E+02	--	--	--	2.40E+05	2.28E-03	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Vanadium	7440-62-2	ug/kg	4.44E+04	--	--	--	4.00E+05	1.11E-01	14.94%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Zinc	7440-66-6	ug/kg	4.56E+04	--	--	--	2.40E+07	1.90E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.28E-06**	**--**	**--**	**7.43E-01**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Cesium-137	10045-97-3	pCi/g	5.90E-02	4.40E+00	1.34E-06	74.54%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.10E-02	2.03E+02	5.42E-09	0.30%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-233/234	U-233/234	pCi/g	1.40E-01	1.33E+02	1.05E-07	5.85%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-235	15117-96-1	pCi/g	6.10E-03	1.54E+01	3.96E-08	2.20%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-238	U-238	pCi/g	1.60E-01	5.20E+01	3.08E-07	17.10%	--	--	--
Total Radiological Risk Estimate							**1.80E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**8.08E-06**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	3.60E-01	1.53E+02	2.35E-07	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	4.80E+01	4.40E+00	1.09E-03	60.82%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	6.10E-02	2.36E+02	2.58E-08	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.80E-01	2.03E+02	2.86E-07	0.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.60E+01	2.28E+00	7.02E-04	39.12%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.10E-01	1.33E+02	8.27E-08	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	2.60E-02	1.54E+01	1.69E-07	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	0.02%	--	--	--
Total Radiological Risk Estimate							**1.79E-03**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.74E+03	6.67E+02	4.11E-06	100.00%	2.40E+04	1.14E-01	16.88%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Barium	7440-39-3	ug/kg	8.02E+04	--	--	--	1.60E+07	5.01E-03	0.74%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	3.52E+02	--	--	--	1.60E+05	2.20E-03	0.33%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	7.81E+01	--	--	--	8.00E+04	9.76E-04	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8.44E+03	--	--	--	1.20E+08	7.04E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8.99E+03	--	--	--	2.40E+04	3.75E-01	55.37%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Copper	7440-50-8	ug/kg	1.61E+04	--	--	--	3.20E+06	5.04E-03	0.74%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.12E+07	2.81E-02	4.15%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	2.40E+04	1.27E-03	0.19%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	3.76E+02	--	--	--	4.00E+05	9.39E-04	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	--	--	--	1.60E+06	6.33E-03	0.94%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2.56E+02	--	--	--	4.00E+05	6.41E-04	0.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Silver	7440-22-4	ug/kg	3.82E+01	--	--	--	4.00E+05	9.54E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	4.80E+07	6.67E-04	0.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.42E+02	--	--	--	4.80E+07	9.22E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	6.01E+02	--	--	--	2.40E+05	2.50E-03	0.37%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	4.00E+05	1.32E-01	19.50%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	4.76E+04	--	--	--	2.40E+07	1.98E-03	0.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.11E-06**	--	--	**6.77E-01**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	pCi/g	3.80E-02	1.53E+02	2.48E-08	0.27%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	1.98E-01	4.40E+00	4.51E-06	48.36%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	4.20E-02	3.10E+00	1.35E-06	14.53%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.02E-01	3.60E+00	2.84E-06	30.45%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	pCi/g	9.20E-02	3.35E+02	2.75E-08	0.29%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.39E-02	2.03E+02	6.86E-09	0.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	1.77E-01	1.33E+02	1.33E-07	1.42%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	1.15E-02	1.54E+01	7.48E-08	0.80%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-238	U-238	pCi/g	1.84E-01	5.20E+01	3.54E-07	3.80%	--	--	--
Total Radiological Risk Estimate							**9.32E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.34E-05**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.93E+02	--	--	--	3.20E+04	6.03E-03	0.84%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.73E+03	6.67E+02	4.09E-06	100.00%	2.40E+04	1.14E-01	15.86%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.94E+04	--	--	--	1.60E+07	4.34E-03	0.61%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.06E+02	--	--	--	1.60E+05	2.54E-03	0.35%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.30E+01	--	--	--	8.00E+04	1.04E-03	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8.07E+03	--	--	--	1.20E+08	6.72E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	--	--	--	2.40E+04	4.08E-01	56.98%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.76E+04	--	--	--	3.20E+06	5.51E-03	0.77%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.12E+07	2.91E-02	4.06%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.82E+02	--	--	--	4.00E+05	9.55E-04	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	--	--	--	1.60E+06	6.53E-03	0.91%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.00E+05	7.03E-04	0.10%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Silver	7440-22-4	ug/kg	4.13E+01	--	--	--	4.00E+05	1.03E-04	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.30E+04	--	--	--	4.80E+07	6.86E-04	0.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.56E+02	--	--	--	4.80E+07	9.51E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.30E+02	--	--	--	2.40E+05	2.21E-03	0.31%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.31E+04	--	--	--	4.00E+05	1.33E-01	18.55%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.49E+04	--	--	--	2.40E+07	1.87E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.09E-06**	**--**	**--**	**7.16E-01**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	pCi/g	9.15E-02	1.53E+02	5.98E-08	0.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.60E+00	4.40E+00	3.64E-05	42.74%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	3.10E+00	1.23E-06	1.44%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.79E-01	3.60E+00	7.76E-06	9.12%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	2.64E-02	2.36E+02	1.12E-08	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.59E-01	2.03E+02	7.81E-08	0.09%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	8.90E-01	2.28E+00	3.90E-05	45.88%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.55E-01	1.33E+02	1.17E-07	0.14%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.54E-02	1.54E+01	1.00E-07	0.12%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-238	U-238	pCi/g	1.69E-01	5.20E+01	3.24E-07	0.38%	--	--	--
Total Radiological Risk Estimate							**8.51E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.92E-05**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Anthracene	120-12-7	ug/kg	2.20E+00	--	--	--	2.40E+07	9.17E-08	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+02	--	--	--	3.20E+04	3.75E-03	0.45%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	5.00E+02	4.40E-08	1.44%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	6.67E+02	3.00E-06	98.29%	2.40E+04	8.33E-02	9.98%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	6.30E+04	--	--	--	1.60E+07	3.94E-03	0.47%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	1.00E+04	7.30E-10	0.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	1.00E+03	6.40E-09	0.21%	2.40E+04	2.67E-04	0.03%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	1.00E+04	7.60E-10	0.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	1.00E+05	2.90E-11	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	--	--	--	1.60E+05	1.75E-03	0.21%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	--	--	--	8.00E+04	1.09E-03	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	4.70E+03	--	--	--	1.20E+08	3.92E-05	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.00E+06	1.20E-11	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.22E+04	--	--	--	2.40E+04	5.08E-01	60.85%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.20E+06	5.34E-03	0.64%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	1.80E+01	--	--	--	3.20E+06	5.63E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	1.00E+04	3.00E-10	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lithium	7439-93-2	ug/kg	4.60E+03	--	--	--	1.60E+05	2.88E-02	3.44%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.64E+05	--	--	--	1.12E+07	3.25E-02	3.89%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.30E+02	--	--	--	4.00E+05	1.08E-03	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9.00E+03	--	--	--	1.60E+06	5.63E-03	0.67%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	2.39E+03	--	--	--	5.68E+08	4.21E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.40E+06	7.92E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	4.00E+05	4.50E-03	0.54%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	4.90E+01	--	--	--	4.00E+05	1.23E-04	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	4.80E+07	5.29E-04	0.06%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	4.80E+07	1.23E-05	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.40E+05	1.92E-03	0.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.02E+04	--	--	--	4.00E+05	1.51E-01	18.02%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	4.81E+04	--	--	--	2.40E+07	2.00E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.05E-06**	**--**	**--**	**8.35E-01**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	4.06E-01	1.33E+02	3.05E-07	33.72%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	3.12E-01	5.20E+01	6.00E-07	66.28%	--	--	--
Total Radiological Risk Estimate							**9.05E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.96E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+03	--	--	--	3.20E+04	3.75E-02	4.86%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	5.00E+02	4.20E-08	0.88%	1.60E+03	1.31E-02	1.70%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	5.00E+02	2.40E-08	0.50%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	6.67E+02	4.65E-06	97.41%	2.40E+04	1.29E-01	16.76%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.60E+07	3.61E-03	0.47%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	1.00E+04	5.00E-09	0.10%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	1.00E+03	4.80E-08	1.01%	2.40E+04	2.00E-03	0.26%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	1.00E+04	4.70E-09	0.10%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	--	--	--	1.60E+05	1.69E-03	0.22%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.10E+02	--	--	--	8.00E+04	1.38E-03	0.18%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6.60E+03	--	--	--	1.20E+08	5.50E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	1.00E+06	7.30E-11	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	--	--	--	2.40E+04	3.67E-01	47.56%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.81E+04	--	--	--	3.20E+06	5.66E-03	0.73%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	3.20E+06	4.69E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lithium	7439-93-2	ug/kg	5.40E+03	--	--	--	1.60E+05	3.38E-02	4.38%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.12E+07	2.68E-02	3.47%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.00E+02	--	--	--	4.00E+05	1.00E-03	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	9.40E+03	--	--	--	1.60E+06	5.88E-03	0.76%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	4.00E+05	4.00E-03	0.52%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	4.50E+01	--	--	--	4.00E+05	1.13E-04	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	4.80E+07	5.79E-04	0.08%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	4.80E+07	1.19E-05	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.30E+02	--	--	--	2.40E+05	1.79E-03	0.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.36E+04	--	--	--	4.00E+05	1.34E-01	17.38%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	5.03E+04	--	--	--	2.40E+07	2.10E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.77E-06**	**--**	**--**	**7.71E-01**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.26E-01	1.53E+02	1.48E-07	0.17%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Cesium-137	10045-97-3	pCi/g	1.61E+00	4.40E+00	3.66E-05	42.33%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	3.60E+00	6.25E-06	7.23%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Strontium-90	10098-97-2	pCi/g	9.56E-01	2.28E+00	4.19E-05	48.51%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	5.97E-01	1.33E+02	4.49E-07	0.52%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	5.60E-01	5.20E+01	1.08E-06	1.25%	--	--	--
Total Radiological Risk Estimate							**8.64E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.12E-05**	**--**	**--**	**--**	**--**

100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.54E+02	--	--	--	3.20E+04	1.73E-02	2.21%
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.19E+03	6.67E+02	4.78E-06	100.00%	2.40E+04	1.33E-01	16.96%
100-K-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	9.81E+04	--	--	--	1.60E+07	6.13E-03	0.78%
100-K-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.16E+02	--	--	--	1.60E+05	2.60E-03	0.33%
100-K-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.04E+01	--	--	--	8.00E+04	1.01E-03	0.13%
100-K-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9.00E+03	--	--	--	1.20E+08	7.50E-05	0.01%
100-K-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.07E+04	--	--	--	2.40E+04	4.46E-01	56.90%
100-K-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.99E+04	--	--	--	3.20E+06	6.22E-03	0.79%
100-K-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	4.24E+05	--	--	--	1.12E+07	3.79E-02	4.83%
100-K-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.35E+02	--	--	--	4.00E+05	1.09E-03	0.14%
100-K-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	--	--	--	1.60E+06	6.44E-03	0.82%
100-K-3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.00E+05	7.03E-04	0.09%
100-K-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.60E+01	--	--	--	4.00E+05	1.40E-04	0.02%
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	4.80E+07	7.10E-04	0.09%
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.36E+02	--	--	--	4.80E+07	1.33E-05	0.00%
100-K-3_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	8.15E+02	--	--	--	2.40E+05	3.40E-03	0.43%
100-K-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.77E+04	--	--	--	4.00E+05	1.19E-01	15.22%
100-K-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.46E+04	--	--	--	2.40E+07	1.86E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.78E-06**	**--**	**--**	**7.84E-01**	**--**
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	3.50E-02	1.53E+02	2.29E-08	0.13%	--	--	--
100-K-3_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	2.30E-01	4.40E+00	5.23E-06	29.11%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	4.40E-01	3.60E+00	1.22E-05	68.06%	--	--	--
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.70E-02	2.03E+02	2.32E-08	0.13%	--	--	--
100-K-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	1.33E+02	1.35E-07	0.75%	--	--	--
100-K-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	1.70E-01	5.20E+01	3.27E-07	1.82%	--	--	--
Total Radiological Risk Estimate							**1.80E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.27E-05**	**--**	**--**	**--**	**--**
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.73E+03	6.67E+02	5.59E-06	100.00%	2.40E+04	1.55E-01	21.55%
100-K-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.01E+04	--	--	--	1.60E+07	4.38E-03	0.61%
100-K-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.34E+02	--	--	--	1.60E+05	2.09E-03	0.29%
100-K-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.33E+02	--	--	--	1.60E+07	5.21E-05	0.01%
100-K-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.33E+01	--	--	--	8.00E+04	1.04E-03	0.14%
100-K-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6.54E+03	--	--	--	1.20E+08	5.45E-05	0.01%
100-K-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.10E+03	--	--	--	2.40E+04	3.79E-01	52.57%
100-K-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.20E+06	5.44E-03	0.75%
100-K-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.01E+05	--	--	--	1.12E+07	2.69E-02	3.73%
100-K-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.94E+02	--	--	--	4.00E+05	9.85E-04	0.14%
100-K-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.59E+03	--	--	--	1.60E+06	5.99E-03	0.83%
100-K-3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.33E+03	--	--	--	5.68E+08	1.11E-05	0.00%
100-K-3_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	2.62E+02	--	--	--	4.00E+05	6.55E-04	0.09%
100-K-3_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	3.45E+01	--	--	--	4.00E+05	8.63E-05	0.01%
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.77E-04	0.09%
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	4.80E+07	1.00E-05	0.00%
100-K-3_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.22E+02	--	--	--	2.40E+05	2.18E-03	0.30%
100-K-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.37E+04	--	--	--	4.00E+05	1.34E-01	18.61%
100-K-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.50E+04	--	--	--	2.40E+07	1.88E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.59E-06**	**--**	**--**	**7.21E-01**	**--**
100-K-3_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	7.70E-02	4.40E+00	1.75E-06	5.52%	--	--	--
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.40E-02	2.03E+02	2.66E-08	0.08%	--	--	--
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E-01	2.28E+00	2.94E-05	92.65%	--	--	--
100-K-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	2.00E-01	1.33E+02	1.50E-07	0.47%	--	--	--
100-K-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	2.10E-01	5.20E+01	4.04E-07	1.27%	--	--	--
Total Radiological Risk Estimate							**3.17E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.73E-05**	**--**	**--**	**--**	**--**
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	6.67E+02	3.90E-06	100.00%	2.40E+04	1.08E-01	12.70%
100-K-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.60E+07	4.36E-03	0.51%
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	--	--	--	8.00E+04	8.00E-03	0.94%
100-K-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.52E+04	--	--	--	1.20E+08	1.27E-04	0.01%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	--	--	--	2.40E+05	2.93E-03	0.34%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	2.40E+04	7.29E-01	85.49%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.90E-06**	**--**	**--**	**8.53E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.90E-06**	**--**	**--**	**--**	**--**
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.20E-06	100.00%	2.40E+04	1.17E-01	32.84%
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.60E+07	1.06E-02	2.97%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	--	--	--	8.00E+04	9.38E-03	2.64%
100-K-31_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.20E+08	8.58E-05	0.02%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	--	--	--	2.40E+05	9.17E-04	0.26%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	2.40E+04	2.17E-01	60.99%
100-K-31_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	4.00E+02	--	--	--	4.00E+05	1.00E-03	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.20E-06**	**--**	**--**	**3.55E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.20E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.00E+03	6.67E+02	4.50E-06	100.00%	2.40E+04	1.25E-01	17.66%
100-K-32_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.74E+04	--	--	--	1.60E+07	6.09E-03	0.86%
100-K-32_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.80E+02	--	--	--	8.00E+04	4.75E-03	0.67%
100-K-32_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.69E+04	--	--	--	1.20E+08	1.41E-04	0.02%
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	--	--	--	2.40E+05	9.58E-04	0.14%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	2.40E+04	5.71E-01	80.65%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.50E-06**	**--**	**--**	**7.08E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.50E-06**	**--**	**--**	**--**	**--**
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.70E+03	6.67E+02	1.00E-05	100.00%	2.40E+04	2.79E-01	47.51%
100-K-33_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.05E+05	--	--	--	1.60E+07	6.56E-03	1.12%
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	--	--	--	8.00E+04	1.25E-02	2.13%
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.29E+04	--	--	--	1.20E+08	1.91E-04	0.03%
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	--	--	--	2.40E+05	5.83E-03	0.99%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	2.40E+04	2.83E-01	48.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.00E-05**	**--**	**--**	**5.88E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.00E-05**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	ug/kg	5.55E+02	--	--	--	3.20E+04	1.73E-02	2.27%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	6.67E+02	5.54E-06	100.00%	2.40E+04	1.54E-01	20.19%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Barium	7440-39-3	ug/kg	6.70E+04	--	--	--	1.60E+07	4.19E-03	0.55%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	--	--	--	1.60E+05	2.12E-03	0.28%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Boron	7440-42-8	ug/kg	1.25E+03	--	--	--	1.60E+07	7.81E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cadmium	7440-43-9	ug/kg	8.61E+01	--	--	--	8.00E+04	1.08E-03	0.14%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Chromium	7440-47-3	ug/kg	7.23E+03	--	--	--	1.20E+08	6.03E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cobalt	7440-48-4	ug/kg	9.87E+03	--	--	--	2.40E+04	4.11E-01	53.93%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.20E+06	5.88E-03	0.77%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.12E+07	3.10E-02	4.06%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	2.40E+04	5.17E-03	0.68%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	4.52E+02	--	--	--	4.00E+05	1.13E-03	0.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	--	--	--	1.60E+06	6.50E-03	0.85%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+04	--	--	--	5.68E+08	2.13E-05	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	4.00E+05	6.75E-04	0.09%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Silver	7440-22-4	ug/kg	3.05E+01	--	--	--	4.00E+05	7.63E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	ug/kg	3.50E+04	--	--	--	4.80E+07	7.30E-04	0.10%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	ug/kg	6.02E+02	--	--	--	4.80E+07	1.25E-05	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Uranium	7440-61-1	ug/kg	5.70E+02	--	--	--	2.40E+05	2.38E-03	0.31%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	4.00E+05	1.17E-01	15.34%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Zinc	7440-66-6	ug/kg	4.77E+04	--	--	--	2.40E+07	1.99E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.54E-06**	**--**	**--**	**7.63E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.54E-06**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	ug/kg	1.73E+02	--	--	--	3.20E+04	5.41E-03	0.81%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	6.67E+02	4.76E-06	100.00%	2.40E+04	1.32E-01	19.90%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Barium	7440-39-3	ug/kg	6.67E+04	--	--	--	1.60E+07	4.17E-03	0.63%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.51E+02	--	--	--	1.60E+05	2.19E-03	0.33%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	1.60E+07	6.75E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cadmium	7440-43-9	ug/kg	6.92E+01	--	--	--	8.00E+04	8.65E-04	0.13%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Chromium	7440-47-3	ug/kg	7.00E+03	--	--	--	1.20E+08	5.83E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cobalt	7440-48-4	ug/kg	8.47E+03	--	--	--	2.40E+04	3.53E-01	53.12%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Copper	7440-50-8	ug/kg	1.75E+04	--	--	--	3.20E+06	5.46E-03	0.82%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Manganese	7439-96-5	ug/kg	3.28E+05	--	--	--	1.12E+07	2.93E-02	4.40%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	3.62E+02	--	--	--	4.00E+05	9.05E-04	0.14%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nickel	7440-02-0	ug/kg	9.36E+03	--	--	--	1.60E+06	5.85E-03	0.88%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nitrate	14797-55-8	ug/kg	5.09E+03	--	--	--	5.68E+08	8.96E-06	0.00%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Silver	7440-22-4	ug/kg	3.07E+01	--	--	--	4.00E+05	7.69E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	ug/kg	3.31E+04	--	--	--	4.80E+07	6.90E-04	0.10%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	ug/kg	4.39E+02	--	--	--	4.80E+07	9.15E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Uranium	7440-61-1	ug/kg	5.27E+02	--	--	--	2.40E+05	2.20E-03	0.33%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Vanadium	7440-62-2	ug/kg	4.81E+04	--	--	--	4.00E+05	1.20E-01	18.11%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Zinc	7440-66-6	ug/kg	4.11E+04	--	--	--	2.40E+07	1.71E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.76E-06**	**--**	**--**	**6.64E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.76E-06**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.17E+02	--	--	--	3.20E+04	1.30E-02	1.44%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.67E+03	6.67E+02	5.50E-06	100.00%	2.40E+04	1.53E-01	16.95%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.69E+04	--	--	--	1.60E+07	4.18E-03	0.46%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	--	--	--	1.60E+05	2.00E-03	0.22%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	1.60E+07	1.10E-04	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.41E+02	--	--	--	8.00E+04	1.76E-03	0.20%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.20E+08	9.08E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.13E+04	--	--	--	2.40E+04	4.71E-01	52.18%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.35E+04	--	--	--	3.20E+06	7.33E-03	0.81%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	--	--	--	2.40E+05	5.17E-04	0.06%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.83E+05	--	--	--	1.12E+07	3.42E-02	3.79%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	2.40E+04	7.88E-03	0.87%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	9.67E+02	--	--	--	4.00E+05	2.42E-03	0.27%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	--	--	--	1.60E+06	1.32E-02	1.47%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	3.83E+04	--	--	--	5.68E+08	6.74E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.54E+02	--	--	--	4.00E+05	1.89E-03	0.21%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.37E+04	--	--	--	4.80E+07	7.02E-04	0.08%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	1.62E+03	--	--	--	4.80E+07	3.38E-05	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.75E+02	--	--	--	2.40E+05	2.81E-03	0.31%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	4.00E+05	1.84E-01	20.37%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.83E+04	--	--	--	2.40E+07	2.43E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.50E-06**	**--**	**--**	**9.02E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.50E-06**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	7.70E+03	--	--	--	3.20E+04	2.41E-01	14.35%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+04	6.67E+02	2.22E-05	100.00%	2.40E+04	6.17E-01	36.77%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.55E+04	--	--	--	1.60E+07	5.34E-03	0.32%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	--	--	--	1.60E+05	2.56E-03	0.15%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	--	--	--	8.00E+04	1.19E-02	0.71%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.39E+04	--	--	--	1.20E+08	1.16E-04	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.20E+04	--	--	--	2.40E+04	5.00E-01	29.82%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.05E+04	--	--	--	3.20E+06	9.53E-03	0.57%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	4.80E+06	1.60E-03	0.10%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.12E+07	3.64E-02	2.17%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.40E+04	4.17E-03	0.25%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.20E+02	--	--	--	4.00E+05	1.55E-03	0.09%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	--	--	--	1.60E+06	8.31E-03	0.50%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2.66E+04	--	--	--	5.68E+08	4.68E-05	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	4.00E+05	5.50E-03	0.33%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	7.40E+01	--	--	--	4.00E+05	1.85E-04	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	6.04E+04	--	--	--	4.80E+07	1.26E-03	0.08%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2.80E+03	--	--	--	4.80E+07	5.83E-05	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.10E+02	--	--	--	2.40E+05	3.38E-03	0.20%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	4.00E+05	2.23E-01	13.30%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.12E+05	--	--	--	2.40E+07	4.67E-03	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.22E-05**	**--**	**--**	**1.68E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.22E-05**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.62E+03	6.67E+02	2.43E-06	100.00%	2.40E+04	6.75E-02	7.95%
100-K-34_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.34E+04	--	--	--	1.60E+07	3.34E-03	0.39%
100-K-34_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.12E+02	--	--	--	1.60E+05	2.58E-03	0.30%
100-K-34_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.15E+03	--	--	--	1.20E+08	4.29E-05	0.01%
100-K-34_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	--	--	--	2.40E+04	4.83E-01	56.92%
100-K-34_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.66E+04	--	--	--	3.20E+06	5.19E-03	0.61%
100-K-34_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.15E+05	--	--	--	1.12E+07	3.71E-02	4.36%
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.00E+05	1.60E-03	0.19%
100-K-34_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.36E+03	--	--	--	1.60E+06	5.23E-03	0.62%
100-K-34_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	5.89E+03	--	--	--	5.68E+08	1.04E-05	0.00%
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	4.00E+05	2.28E-03	0.27%
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.56E+04	--	--	--	4.80E+07	5.33E-04	0.06%
100-K-34_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	4.80E+07	1.00E-05	0.00%
100-K-34_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	2.40E+05	2.04E-03	0.24%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	4.00E+05	2.36E-01	27.79%
100-K-34_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.67E+04	--	--	--	2.40E+07	2.36E-03	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.43E-06**	**--**	**--**	**8.49E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.43E-06**	**--**	**--**	**--**	**--**
100-K-36_Deep_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.40E-01	1.33E+02	1.05E-07	28.11%	--	--	--
100-K-36_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	1.40E-01	5.20E+01	2.69E-07	71.89%	--	--	--
Total Radiological Risk Estimate							**3.74E-07**	**--**	**--**	**--**	**--**
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.44E+03	6.67E+02	3.66E-06	100.00%	2.40E+04	1.02E-01	16.96%
100-K-36_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.43E+04	--	--	--	1.60E+07	4.64E-03	0.77%
100-K-36_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	--	--	--	1.60E+05	1.89E-03	0.32%
100-K-36_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.01E+03	--	--	--	1.60E+07	6.31E-05	0.01%
100-K-36_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.73E+01	--	--	--	8.00E+04	9.66E-04	0.16%
100-K-36_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8.31E+03	--	--	--	1.20E+08	6.93E-05	0.01%
100-K-36_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	--	--	--	2.40E+04	3.34E-01	55.74%
100-K-36_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.46E+04	--	--	--	3.20E+06	4.56E-03	0.76%
100-K-36_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.12E+07	2.57E-02	4.29%
100-K-36_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.19E+02	--	--	--	4.00E+05	1.05E-03	0.17%
100-K-36_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	--	--	--	1.60E+06	6.44E-03	1.07%
100-K-36_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.89E+04	--	--	--	5.68E+08	3.33E-05	0.01%
100-K-36_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.57E+01	--	--	--	4.00E+05	8.93E-05	0.01%
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.77E-04	0.11%
100-K-36_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.52E+02	--	--	--	4.80E+07	9.42E-06	0.00%
100-K-36_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.61E+02	--	--	--	2.40E+05	1.92E-03	0.32%
100-K-36_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.55E+04	--	--	--	4.00E+05	1.14E-01	18.97%
100-K-36_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.28E+04	--	--	--	2.40E+07	1.78E-03	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.66E-06**	**--**	**--**	**5.99E-01**	**--**
100-K-36_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.90E-01	1.33E+02	1.43E-07	31.71%	--	--	--
100-K-36_Shallow	Rad	Uranium-238	U-238	pCi/g	1.60E-01	5.20E+01	3.08E-07	68.29%	--	--	--
Total Radiological Risk Estimate							**4.51E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.11E-06**	**--**	**--**	**--**	**--**
100-K-4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.12E-02	4.40E+00	4.82E-07	22.61%	--	--	--
100-K-4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	4.16E-01	1.33E+02	3.13E-07	14.68%	--	--	--
100-K-4_Deep	Rad	Uranium-238	U-238	pCi/g	6.95E-01	5.20E+01	1.34E-06	62.71%	--	--	--
Total Radiological Risk Estimate							**2.13E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.20E+02	--	--	--	3.20E+04	1.00E-02	1.30%
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.41E+03	6.67E+02	5.11E-06	100.00%	2.40E+04	1.42E-01	18.42%
100-K-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.27E+04	--	--	--	1.60E+07	4.54E-03	0.59%
100-K-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.50E+02	--	--	--	1.60E+05	1.56E-03	0.20%
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	1.60E+07	1.05E-03	0.14%
100-K-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.20E+02	--	--	--	8.00E+04	1.50E-03	0.19%
100-K-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.02E+04	--	--	--	1.20E+08	8.50E-05	0.01%
100-K-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.55E+03	--	--	--	2.40E+04	3.56E-01	46.18%
100-K-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.50E+04	--	--	--	3.20E+06	4.69E-03	0.61%
100-K-4_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	1.03E+04	--	--	--	1.60E+05	6.41E-02	8.31%
100-K-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.13E+05	--	--	--	1.12E+07	2.79E-02	3.62%
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.00E+05	1.21E-03	0.16%
100-K-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	--	--	--	1.60E+06	6.66E-03	0.86%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	4.00E+05	3.78E-03	0.49%
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.35E+04	--	--	--	4.80E+07	9.07E-04	0.12%
100-K-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.16E+02	--	--	--	4.80E+07	1.08E-05	0.00%
100-K-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.40E+02	--	--	--	2.40E+05	2.67E-03	0.35%
100-K-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.60E+04	--	--	--	4.00E+05	1.40E-01	18.15%
100-K-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.62E+04	--	--	--	2.40E+07	2.34E-03	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.11E-06**	**--**	**--**	**7.71E-01**	**--**
100-K-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.17E-01	4.40E+00	2.66E-06	58.31%	--	--	--
100-K-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	7.27E-01	1.33E+02	5.47E-07	11.99%	--	--	--
100-K-4_Shallow	Rad	Uranium-238	U-238	pCi/g	7.04E-01	5.20E+01	1.35E-06	29.69%	--	--	--
Total Radiological Risk Estimate							**4.56E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.67E-06**	**--**	**--**	**--**	**--**
100-K-46_Deep	Rad	Americium-241	14596-10-2	pCi/g	4.30E-01	1.53E+02	2.81E-07	0.14%	--	--	--
100-K-46_Deep	Rad	Carbon-14	14762-75-5	pCi/g	7.57E+00	8.10E+01	9.35E-06	4.80%	--	--	--
100-K-46_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.20E+00	4.40E+00	1.41E-04	72.43%	--	--	--
100-K-46_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	6.10E-02	2.36E+02	2.58E-08	0.01%	--	--	--
100-K-46_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.30E-01	2.03E+02	1.63E-07	0.08%	--	--	--
100-K-46_Deep	Rad	Strontium-90	10098-97-2	pCi/g	9.90E-01	2.28E+00	4.34E-05	22.32%	--	--	--
100-K-46_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	0.06%	--	--	--
100-K-46_Deep	Rad	Uranium-238	U-238	pCi/g	1.50E-01	5.20E+01	2.88E-07	0.15%	--	--	--
Total Radiological Risk Estimate							**1.95E-04**	**--**	**--**	**--**	**--**
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	1.53E+02	1.11E-07	0.07%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.70E-01	4.40E+00	1.52E-05	9.57%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	5.00E-02	3.10E+00	1.61E-06	1.01%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Europium-152	14683-23-9	pCi/g	6.80E-01	3.60E+00	1.89E-05	11.87%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	3.50E-02	2.36E+02	1.48E-08	0.01%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.30E-01	2.03E+02	1.13E-07	0.07%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Strontium-90	10098-97-2	pCi/g	2.80E+00	2.28E+00	1.23E-04	77.19%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	1.10E-01	1.33E+02	8.27E-08	0.05%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Uranium-238	U-238	pCi/g	1.20E-01	5.20E+01	2.31E-07	0.15%	--	--	--
Total Radiological Risk Estimate							**1.59E-04**	**--**	**--**	**--**	**--**
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	7.82E+00	--	--	--	4.80E+06	1.63E-06	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.55E+01	--	--	--	2.40E+07	6.47E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.96E+03	--	--	--	3.20E+04	6.13E-02	7.51%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	5.00E+02	1.05E-08	0.24%	1.60E+03	3.28E-03	0.40%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	5.00E+02	4.71E-09	0.11%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.75E+03	6.67E+02	4.13E-06	95.49%	2.40E+04	1.15E-01	14.06%
100-K-50, 1607-K2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.08E+04	--	--	--	1.60E+07	4.43E-03	0.54%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	1.00E+04	1.69E-08	0.39%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	1.00E+03	1.07E-07	2.48%	2.40E+04	4.46E-03	0.55%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	1.00E+04	1.81E-08	0.42%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	1.00E+05	2.72E-10	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.38E+03	--	--	--	1.60E+05	8.65E-03	1.06%
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	1.60E+07	5.63E-04	0.07%
100-K-50, 1607-K2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.19E+04	--	--	--	1.20E+08	9.93E-05	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	1.00E+06	2.08E-10	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.51E+03	--	--	--	2.40E+04	3.54E-01	43.46%
100-K-50, 1607-K2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.92E+04	--	--	--	3.20E+06	5.99E-03	0.74%
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	1.00E+03	3.01E-08	0.70%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	2.25E+02	--	--	--	3.20E+06	7.03E-05	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.28E+00	--	--	--	3.20E+06	1.96E-06	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	--	--	--	2.40E+05	1.59E-03	0.20%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	1.00E+04	7.03E-09	0.16%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.12E+07	3.60E-02	4.41%
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	2.40E+04	5.25E-03	0.64%
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.65E+02	--	--	--	4.00E+05	1.41E-03	0.17%
100-K-50, 1607-K2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	--	--	--	1.60E+06	6.32E-03	0.77%
100-K-50, 1607-K2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.18E+04	--	--	--	5.68E+08	3.83E-05	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2.23E+02	--	--	--	2.40E+06	9.29E-05	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	4.00E+05	2.47E-03	0.30%
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	7.85E+02	--	--	--	4.00E+05	1.96E-03	0.24%
100-K-50, 1607-K2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.01E+04	--	--	--	4.00E+05	2.00E-01	24.55%
100-K-50, 1607-K2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.37E+04	--	--	--	2.40E+07	2.24E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.32E-06**	**--**	**--**	**8.15E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.32E-06**	**--**	**--**	**--**	**--**
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.84E+03	6.67E+02	1.48E-05	100.00%	2.40E+04	4.10E-01	35.91%
100-K-53_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.60E+07	3.61E-03	0.32%
100-K-53_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.35E+02	--	--	--	1.60E+05	2.09E-03	0.18%
100-K-53_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	--	--	--	8.00E+04	1.51E-03	0.13%
100-K-53_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.04E+04	--	--	--	1.20E+08	8.64E-05	0.01%
100-K-53_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	--	--	--	2.40E+04	4.31E-01	37.75%
100-K-53_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.82E+04	--	--	--	3.20E+06	8.82E-03	0.77%
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	--	--	--	2.40E+05	4.25E-04	0.04%
100-K-53_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7.40E+03	--	--	--	1.60E+05	4.62E-02	4.05%
100-K-53_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.12E+07	3.12E-02	2.73%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	2.40E+04	2.41E-03	0.21%
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	8.69E+02	--	--	--	4.00E+05	2.17E-03	0.19%
100-K-53_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	--	--	--	1.60E+06	7.17E-03	0.63%
100-K-53_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8.88E+03	--	--	--	5.68E+08	1.56E-05	0.00%
100-K-53_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.49E+02	--	--	--	4.00E+05	1.87E-03	0.16%
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	4.80E+07	6.11E-04	0.05%
100-K-53_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.09E+02	--	--	--	4.80E+07	1.06E-05	0.00%
100-K-53_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.42E+02	--	--	--	2.40E+05	2.26E-03	0.20%
100-K-53_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.52E+04	--	--	--	4.00E+05	1.88E-01	16.47%
100-K-53_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.47E+04	--	--	--	2.40E+07	2.28E-03	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.48E-05**	**--**	**--**	**1.14E+00**	**--**
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.16E+00	4.40E+00	2.64E-05	100.00%	--	--	--
Total Radiological Risk Estimate							**2.64E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.12E-05**	**--**	**--**	**--**	**--**
100-K-55:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.85E+00	4.40E+00	8.75E-05	64.94%	--	--	--
100-K-55:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	5.93E-01	3.10E+00	1.91E-05	14.20%	--	--	--
100-K-55:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	7.82E-01	3.60E+00	2.17E-05	16.11%	--	--	--
100-K-55:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.88E-01	4.50E+00	6.40E-06	4.75%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate							**1.35E-04**	--	--	--	--
100-K-55:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	3.41E-01	4.40E+00	7.75E-06	38.61%	--	--	--
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	2.74E-02	3.10E+00	8.85E-07	4.41%	--	--	--
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	3.33E-01	3.60E+00	9.25E-06	46.07%	--	--	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	pCi/g	9.86E-02	4.50E+00	2.19E-06	10.91%	--	--	--
Total Radiological Risk Estimate							**2.01E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.01E-05**	--	--	--	--
100-K-55:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.84E-01	4.40E+00	6.45E-06	13.95%	--	--	--
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.86E-01	3.10E+00	6.00E-06	12.97%	--	--	--
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.03E+00	3.60E+00	2.87E-05	61.97%	--	--	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.31E-01	4.50E+00	5.14E-06	11.11%	--	--	--
Total Radiological Risk Estimate							**4.63E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**4.63E-05**	--	--	--	--
100-K-55:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	2.40E+05	9.64E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	--	--	**9.64E-03**	--
100-K-55:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	6.12E-01	4.40E+00	1.39E-05	18.35%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.10E-01	3.10E+00	3.55E-06	4.68%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.30E+00	3.60E+00	3.61E-05	47.64%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.87E-01	4.50E+00	4.16E-06	5.48%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	3.66E-01	2.28E+00	1.61E-05	21.18%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	6.99E-01	1.33E+02	5.26E-07	0.69%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	7.77E-01	5.20E+01	1.49E-06	1.97%	--	--	--
Total Radiological Risk Estimate							**7.58E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**7.58E-05**	--	--	--	--
100-K-56:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.61E+01	4.40E+00	5.92E-04	38.37%	--	--	--
100-K-56:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.07E+00	3.10E+00	3.46E-05	2.24%	--	--	--
100-K-56:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.14E+01	3.60E+00	8.72E-04	56.52%	--	--	--
100-K-56:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.99E+00	4.50E+00	4.43E-05	2.87%	--	--	--
Total Radiological Risk Estimate							**1.54E-03**	--	--	--	--
100-K-56:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.01E+00	4.40E+00	2.30E-05	19.14%	--	--	--
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.41E-01	3.10E+00	4.55E-06	3.79%	--	--	--
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	3.33E+00	3.60E+00	9.25E-05	77.07%	--	--	--
Total Radiological Risk Estimate							**1.20E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.20E-04**	--	--	--	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	--	--	--	2.40E+05	3.90E-03	39.36%
100-K-56:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.44E+03	--	--	--	2.40E+05	6.02E-03	60.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	--	--	**9.92E-03**	--
100-K-56:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.09E-01	4.40E+00	7.02E-06	5.46%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.49E-01	3.10E+00	4.81E-06	3.74%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	3.11E+00	3.60E+00	8.64E-05	67.22%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	3.27E-01	4.50E+00	7.27E-06	5.65%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	4.96E-01	2.28E+00	2.18E-05	16.93%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	4.54E-01	1.33E+02	3.41E-07	0.27%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	4.85E-01	5.20E+01	9.33E-07	0.73%	--	--	--
Total Radiological Risk Estimate							**1.29E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.29E-04**	--	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	3.54E+02	--	--	--	3.20E+04	1.11E-02	1.45%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.67E+03	6.67E+02	4.00E-06	100.00%	2.40E+04	1.11E-01	14.55%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	6.54E+04	--	--	--	1.60E+07	4.09E-03	0.54%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	2.86E+02	--	--	--	1.60E+05	1.79E-03	0.23%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	1.60E+07	5.25E-04	0.07%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7.03E+03	--	--	--	1.20E+08	5.86E-05	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9.51E+03	--	--	--	2.40E+04	3.96E-01	51.90%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.20E+06	5.45E-03	0.71%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	--	--	--	2.40E+05	2.99E-04	0.04%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lithium	7439-93-2	ug/kg	5.63E+03	--	--	--	1.60E+05	3.52E-02	4.60%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.12E+07	3.14E-02	4.11%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	2.40E+04	2.83E-03	0.37%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	4.98E+02	--	--	--	4.00E+05	1.24E-03	0.16%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9.21E+03	--	--	--	1.60E+06	5.75E-03	0.75%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	4.00E+05	4.56E-03	0.60%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	2.80E+04	--	--	--	4.80E+07	5.83E-04	0.08%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.79E+02	--	--	--	4.80E+07	9.99E-06	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	4.48E+02	--	--	--	2.40E+05	1.87E-03	0.24%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.91E+04	--	--	--	4.00E+05	1.48E-01	19.33%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	4.69E+04	--	--	--	2.40E+07	1.95E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.00E-06**	**--**	**--**	**7.64E-01**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	8.35E+00	8.10E+01	1.03E-05	17.05%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	3.10E-01	4.40E+00	7.05E-06	11.65%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.12E-02	2.03E+02	5.51E-09	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	9.70E-01	2.28E+00	4.25E-05	70.38%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	1.46E-01	1.33E+02	1.10E-07	0.18%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	1.89E-02	1.54E+01	1.23E-07	0.20%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-238	U-238	pCi/g	1.65E-01	5.20E+01	3.17E-07	0.52%	--	--	--
Total Radiological Risk Estimate							**6.05E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.45E-05**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.34E+03	6.67E+02	3.51E-06	100.00%	2.40E+04	9.75E-02	14.72%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.66E+04	--	--	--	1.60E+07	4.16E-03	0.63%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	--	--	--	1.60E+05	1.99E-03	0.30%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.94E+03	--	--	--	1.60E+07	1.22E-04	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.77E+01	--	--	--	8.00E+04	1.10E-03	0.17%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6.91E+03	--	--	--	1.20E+08	5.76E-05	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.85E+03	--	--	--	2.40E+04	3.69E-01	55.72%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.67E+04	--	--	--	3.20E+06	5.22E-03	0.79%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lithium	7439-93-2	ug/kg	6.62E+03	--	--	--	1.60E+05	4.14E-02	6.25%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.12E+07	2.84E-02	4.29%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.82E+02	--	--	--	4.00E+05	1.21E-03	0.18%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.86E+03	--	--	--	1.60E+06	6.16E-03	0.93%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.25E+04	--	--	--	5.68E+08	2.21E-05	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	4.00E+05	6.75E-04	0.10%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.92E+01	--	--	--	4.00E+05	1.48E-04	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.97E+04	--	--	--	4.80E+07	6.20E-04	0.09%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	4.50E+02	--	--	--	4.80E+07	9.37E-06	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.18E+02	--	--	--	2.40E+05	2.16E-03	0.33%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.02E+04	--	--	--	4.00E+05	1.01E-01	15.20%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.02E+04	--	--	--	2.40E+07	1.68E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.51E-06**	**--**	**--**	**6.62E-01**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	2.34E-01	1.53E+02	1.53E-07	0.09%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	6.55E+01	8.10E+01	8.09E-05	48.54%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	1.68E+00	4.40E+00	3.82E-05	22.92%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.10E-01	3.60E+00	8.61E-06	5.17%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	4.50E+00	3.56E-06	2.13%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	pCi/g	3.00E-02	2.36E+02	1.27E-08	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.32E-01	2.03E+02	6.48E-08	0.04%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	7.90E-01	2.28E+00	3.46E-05	20.80%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.53E-01	1.33E+02	1.15E-07	0.07%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	1.46E-02	1.54E+01	9.49E-08	0.06%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	1.57E-01	5.20E+01	3.02E-07	0.18%	--	--	--
Total Radiological Risk Estimate							**1.67E-04**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.70E-04**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	6.67E+02	4.39E-06	100.00%	2.40E+04	1.22E-01	13.95%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.33E+04	--	--	--	1.60E+07	4.58E-03	0.52%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	4.22E+02	--	--	--	1.60E+05	2.64E-03	0.30%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.96E+02	--	--	--	1.60E+07	5.60E-05	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.21E+01	--	--	--	8.00E+04	1.15E-03	0.13%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8.33E+03	--	--	--	1.20E+08	6.94E-05	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	--	--	--	2.40E+04	4.76E-01	54.47%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.99E+04	--	--	--	3.20E+06	6.23E-03	0.71%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lithium	7439-93-2	ug/kg	8.36E+03	--	--	--	1.60E+05	5.23E-02	5.98%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.76E+05	--	--	--	1.12E+07	3.36E-02	3.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	5.95E+02	--	--	--	4.00E+05	1.49E-03	0.17%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.09E+04	--	--	--	1.60E+06	6.81E-03	0.78%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.22E+03	--	--	--	5.68E+08	1.09E-05	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.24E+02	--	--	--	4.00E+05	8.11E-04	0.09%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	7.52E+01	--	--	--	4.00E+05	1.88E-04	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.52E+04	--	--	--	4.80E+07	7.33E-04	0.08%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.94E+02	--	--	--	4.80E+07	1.24E-05	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.91E+02	--	--	--	2.40E+05	2.46E-03	0.28%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.43E+04	--	--	--	4.00E+05	1.61E-01	18.40%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	5.10E+04	--	--	--	2.40E+07	2.13E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.39E-06**	**--**	**--**	**8.74E-01**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	pCi/g	2.10E+00	1.53E+02	1.37E-06	0.14%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.39E+02	8.10E+01	1.72E-04	16.99%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.55E+01	4.40E+00	3.52E-04	34.83%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.30E-01	2.36E+02	9.75E-08	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.20E+00	2.03E+02	1.08E-06	0.11%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.10E+01	2.28E+00	4.82E-04	47.77%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	5.31E+00	6.24E+02	8.51E-07	0.08%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	1.33E+02	1.35E-07	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-235	15117-96-1	pCi/g	2.20E-02	1.54E+01	1.43E-07	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.85E-01	5.20E+01	3.55E-07	0.04%	--	--	--
Total Radiological Risk Estimate							**1.01E-03**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.01E-03**	**--**	**--**	**--**	**--**
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.28E+03	6.67E+02	3.42E-06	100.00%	2.40E+04	9.50E-02	14.85%
100-K-6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.11E+04	--	--	--	1.60E+07	3.82E-03	0.60%
100-K-6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	--	--	--	1.60E+05	2.12E-03	0.33%
100-K-6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.14E+01	--	--	--	8.00E+04	1.02E-03	0.16%
100-K-6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.29E+03	--	--	--	1.20E+08	4.41E-05	0.01%
100-K-6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.31E+03	--	--	--	2.40E+04	3.46E-01	54.13%
100-K-6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.57E+04	--	--	--	3.20E+06	4.91E-03	0.77%
100-K-6_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7.30E+03	--	--	--	1.60E+05	4.56E-02	7.13%
100-K-6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.79E+05	--	--	--	1.12E+07	2.49E-02	3.89%
100-K-6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.70E+02	--	--	--	4.00E+05	6.75E-04	0.11%
100-K-6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.27E+03	--	--	--	1.60E+06	4.54E-03	0.71%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.00E+05	7.03E-04	0.11%
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	4.80E+07	6.42E-04	0.10%
100-K-6_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.77E+02	--	--	--	4.80E+07	9.94E-06	0.00%
100-K-6_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.77E+02	--	--	--	2.40E+05	1.99E-03	0.31%
100-K-6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.23E+04	--	--	--	4.00E+05	1.06E-01	16.53%
100-K-6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.07E+04	--	--	--	2.40E+07	1.70E-03	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.42E-06**	**--**	**--**	**6.40E-01**	**--**
100-K-6_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.50E-02	1.53E+02	3.59E-08	0.07%	--	--	--
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	3.48E+01	8.10E+01	4.30E-05	77.78%	--	--	--
100-K-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	5.10E-01	4.40E+00	1.16E-05	20.98%	--	--	--
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.20E-02	2.03E+02	2.07E-08	0.04%	--	--	--
100-K-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.60E-01	1.33E+02	1.20E-07	0.22%	--	--	--
100-K-6_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.90E-02	1.54E+01	1.23E-07	0.22%	--	--	--
100-K-6_Shallow	Rad	Uranium-238	U-238	pCi/g	2.00E-01	5.20E+01	3.85E-07	0.70%	--	--	--
Total Radiological Risk Estimate							**5.52E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.87E-05**	**--**	**--**	**--**	**--**
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	6.67E+02	1.93E-06	100.00%	2.40E+04	5.38E-02	9.27%
100-K-62_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.05E+04	--	--	--	1.60E+07	3.16E-03	0.54%
100-K-62_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.28E+02	--	--	--	1.60E+05	1.43E-03	0.25%
100-K-62_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	5.51E+01	--	--	--	8.00E+04	6.89E-04	0.12%
100-K-62_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	3.95E+03	--	--	--	1.20E+08	3.29E-05	0.01%
100-K-62_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.37E+03	--	--	--	2.40E+04	3.49E-01	60.12%
100-K-62_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.20E+06	4.66E-03	0.80%
100-K-62_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	2.90E+03	--	--	--	1.60E+05	1.81E-02	3.12%
100-K-62_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.12E+07	2.33E-02	4.02%
100-K-62_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.03E+02	--	--	--	4.00E+05	7.58E-04	0.13%
100-K-62_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.97E+03	--	--	--	1.60E+06	3.73E-03	0.64%
100-K-62_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	3.12E+02	--	--	--	4.00E+05	7.80E-04	0.13%
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.29E+04	--	--	--	4.80E+07	4.77E-04	0.08%
100-K-62_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.83E+02	--	--	--	4.80E+07	7.98E-06	0.00%
100-K-62_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	3.57E+02	--	--	--	2.40E+05	1.49E-03	0.26%
100-K-62_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	4.00E+05	1.18E-01	20.26%
100-K-62_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	3.50E+04	--	--	--	2.40E+07	1.46E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.93E-06**	**--**	**--**	**5.80E-01**	**--**
100-K-62_Shallow	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	1.53E+02	1.11E-07	0.14%	--	--	--
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.02E+01	8.10E+01	2.49E-05	31.94%	--	--	--
100-K-62_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	8.40E-01	4.40E+00	1.91E-05	24.45%	--	--	--
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	2.36E+02	1.53E-08	0.02%	--	--	--
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-01	2.03E+02	9.85E-08	0.13%	--	--	--
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	7.60E-01	2.28E+00	3.33E-05	42.70%	--	--	--
100-K-62_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.20E-01	1.33E+02	9.02E-08	0.12%	--	--	--
100-K-62_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.30E-02	1.54E+01	8.44E-08	0.11%	--	--	--
100-K-62_Shallow	Rad	Uranium-238	U-238	pCi/g	1.60E-01	5.20E+01	3.08E-07	0.39%	--	--	--
Total Radiological Risk Estimate							**7.81E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.00E-05**	**--**	**--**	**--**	**--**
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.90E+02	--	--	--	3.20E+04	5.94E-03	0.83%
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.01E+03	6.67E+02	4.51E-06	100.00%	2.40E+04	1.25E-01	17.47%
100-K-63_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.92E+04	--	--	--	1.60E+07	4.32E-03	0.60%
100-K-63_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	--	--	--	1.60E+05	2.16E-03	0.30%
100-K-63_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2.95E+03	--	--	--	1.60E+07	1.85E-04	0.03%
100-K-63_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.89E+02	--	--	--	8.00E+04	2.36E-03	0.33%
100-K-63_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	1.11E+04	--	--	--	1.20E+08	9.21E-05	0.01%
100-K-63_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	--	--	--	2.40E+04	3.81E-01	53.12%
100-K-63_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.20E+06	6.02E-03	0.84%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	--	--	--	2.40E+05	6.31E-04	0.09%
100-K-63_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.12E+07	3.23E-02	4.51%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	2.40E+04	5.96E-04	0.08%
100-K-63_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.50E+02	--	--	--	4.00E+05	1.12E-03	0.16%
100-K-63_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	--	--	--	1.60E+06	8.33E-03	1.16%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	4.00E+05	3.23E-03	0.45%
100-K-63_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.48E+01	--	--	--	4.00E+05	1.37E-04	0.02%
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.76E+04	--	--	--	4.80E+07	5.74E-04	0.08%
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	9.37E+02	--	--	--	4.80E+07	1.95E-05	0.00%
100-K-63_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	2.40E+05	2.15E-03	0.30%
100-K-63_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	4.00E+05	1.38E-01	19.29%
100-K-63_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	5.87E+04	--	--	--	2.40E+07	2.44E-03	0.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.51E-06**	**--**	**--**	**7.17E-01**	**--**
100-K-63_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	3.11E-01	4.40E+00	7.06E-06	6.48%	--	--	--
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.30E-02	3.10E+00	7.42E-07	0.68%	--	--	--
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	1.94E-01	3.60E+00	5.38E-06	4.94%	--	--	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	4.50E+00	3.56E-06	3.26%	--	--	--
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	pCi/g	2.00E-01	3.35E+02	5.97E-08	0.05%	--	--	--
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	2.10E+00	2.28E+00	9.21E-05	84.58%	--	--	--
Total Radiological Risk Estimate							**1.09E-04**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.13E-04**	**--**	**--**	**--**	**--**
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	3.16E+02	--	--	--	3.20E+04	9.88E-03	1.45%
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.88E+03	6.67E+02	5.81E-06	100.00%	2.40E+04	1.62E-01	23.73%
100-K-63_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.83E+04	--	--	--	1.60E+07	4.89E-03	0.72%
100-K-63_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	--	--	--	1.60E+05	2.21E-03	0.32%
100-K-63_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.02E+03	--	--	--	1.60E+07	1.26E-04	0.02%
100-K-63_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	1.78E+02	--	--	--	8.00E+04	2.23E-03	0.33%
100-K-63_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	1.72E+04	--	--	--	1.20E+08	1.44E-04	0.02%
100-K-63_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	--	--	--	2.40E+04	3.26E-01	47.94%
100-K-63_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.67E+04	--	--	--	3.20E+06	5.21E-03	0.77%
100-K-63_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.29E+05	--	--	--	1.12E+07	2.94E-02	4.31%
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	6.75E+02	--	--	--	4.00E+05	1.69E-03	0.25%
100-K-63_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.51E+04	--	--	--	1.60E+06	9.44E-03	1.39%
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	4.00E+05	2.19E-03	0.32%
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	5.61E+04	--	--	--	4.80E+07	1.17E-03	0.17%
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.67E+02	--	--	--	4.80E+07	9.72E-06	0.00%
100-K-63_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.90E+02	--	--	--	2.40E+05	2.88E-03	0.42%
100-K-63_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.74E+04	--	--	--	4.00E+05	1.19E-01	17.41%
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.01E+04	--	--	--	2.40E+07	2.92E-03	0.43%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.81E-06**	**--**	**--**	**6.81E-01**	**--**
100-K-63_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	4.12E-01	4.40E+00	9.37E-06	39.97%	--	--	--
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.10E-02	3.10E+00	1.32E-06	5.64%	--	--	--
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	9.10E-02	3.60E+00	2.53E-06	10.79%	--	--	--
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.40E-01	4.50E+00	3.11E-06	13.28%	--	--	--
100-K-63_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.62E-01	2.28E+00	7.11E-06	30.32%	--	--	--
Total Radiological Risk Estimate							**2.34E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.92E-05**	**--**	**--**	**--**	**--**
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	5.70E+01	--	--	--	4.80E+06	1.19E-05	0.00%
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	6.20E+00	--	--	--	2.40E+07	2.58E-07	0.00%
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.11E+03	--	--	--	3.20E+04	3.47E-02	2.83%
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.89E+03	6.67E+02	1.48E-05	99.89%	2.40E+04	4.12E-01	33.60%
100-K-77_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.40E+04	--	--	--	1.60E+07	5.25E-03	0.43%
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	1.00E+03	1.35E-08	0.09%	2.40E+04	5.60E-04	0.05%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	1.00E+04	1.54E-09	0.01%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	1.00E+05	5.23E-11	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	--	--	--	1.60E+05	2.56E-03	0.21%
100-K-77_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	2.77E+02	--	--	--	8.00E+04	3.46E-03	0.28%
100-K-77_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.63E+04	--	--	--	1.20E+08	1.36E-04	0.01%
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	1.00E+06	1.32E-11	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	--	--	--	2.40E+04	4.50E-01	36.70%
100-K-77_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.89E+04	--	--	--	3.20E+06	5.91E-03	0.48%
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	3.03E+01	--	--	--	3.20E+06	9.48E-06	0.00%
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.80E+00	--	--	--	3.20E+06	2.13E-06	0.00%
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	--	--	--	2.40E+05	5.42E-04	0.04%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	1.00E+04	1.71E-09	0.01%	--	--	--
100-K-77_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	1.22E+04	--	--	--	1.60E+05	7.63E-02	6.22%
100-K-77_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.12E+07	3.93E-02	3.20%
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.39E+03	--	--	--	4.00E+05	3.47E-03	0.28%
100-K-77_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	--	--	--	1.60E+06	8.39E-03	0.68%
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.20E+01	--	--	--	2.40E+06	1.75E-05	0.00%
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	4.00E+05	2.32E-03	0.19%
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.09E+04	--	--	--	4.80E+07	8.52E-04	0.07%
100-K-77_Shallow	non-Rad	Tin	7440-31-5	ug/kg	2.16E+03	--	--	--	4.80E+07	4.50E-05	0.00%
100-K-77_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	7.71E+02	--	--	--	2.40E+05	3.21E-03	0.26%
100-K-77_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.99E+04	--	--	--	4.00E+05	1.75E-01	14.25%
100-K-77_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.82E+04	--	--	--	2.40E+07	2.43E-03	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.48E-05**	**--**	**--**	**1.23E+00**	**--**
100-K-77_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	4.70E-01	4.40E+00	1.07E-05	100.00%	--	--	--
Total Radiological Risk Estimate							**1.07E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.55E-05**	**--**	**--**	**--**	**--**

100-K-78_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.08E+07	--	--	--	8.00E+07	1.35E-01	12.22%
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	3.91E+02	--	--	--	3.20E+04	1.22E-02	1.11%
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	6.67E+02	6.49E-06	100.00%	2.40E+04	1.80E-01	16.33%
100-K-78_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.53E+04	--	--	--	1.60E+07	5.33E-03	0.48%
100-K-78_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	--	--	--	1.60E+05	2.23E-03	0.20%
100-K-78_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.57E+03	--	--	--	1.60E+07	9.81E-05	0.01%
100-K-78_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	--	--	--	8.00E+04	1.70E-03	0.15%
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.20E+08	2.50E-04	0.02%
100-K-78_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.11E+03	--	--	--	2.40E+04	2.55E-01	23.04%
100-K-78_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.20E+06	6.09E-03	0.55%
100-K-78_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.96E+07	--	--	--	5.60E+07	3.50E-01	31.68%
100-K-78_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.12E+07	2.57E-02	2.33%
100-K-78_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.52E+02	--	--	--	4.00E+05	1.13E-03	0.10%
100-K-78_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.48E+04	--	--	--	1.60E+06	9.25E-03	0.84%
100-K-78_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.77E+03	--	--	--	2.40E+05	1.16E-02	1.05%
100-K-78_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.29E+04	--	--	--	4.00E+05	1.07E-01	9.71%
100-K-78_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.70E+04	--	--	--	2.40E+07	1.96E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.49E-06**	**--**	**--**	**1.10E+00**	**--**
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.66E+00	8.10E+01	2.05E-06	8.86%	--	--	--
100-K-78_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.20E-01	4.40E+00	7.27E-06	31.44%	--	--	--
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	7.30E-02	3.10E+00	2.35E-06	10.18%	--	--	--
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	2.70E-01	3.60E+00	7.50E-06	32.42%	--	--	--
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.24E+00	5.94E+02	1.22E-06	5.27%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	8.43E-01	1.33E+02	6.34E-07	2.74%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	4.80E-02	1.54E+01	3.12E-07	1.35%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	9.32E-01	5.20E+01	1.79E-06	7.75%	--	--	--
Total Radiological Risk Estimate							**2.31E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.96E-05**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-84_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.24E+06	--	--	--	8.00E+07	1.03E-01	7.26%
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6.39E+03	6.67E+02	9.59E-06	100.00%	2.40E+04	2.66E-01	18.77%
100-K-84_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.60E+07	4.13E-03	0.29%
100-K-84_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.55E+02	--	--	--	1.60E+05	3.47E-03	0.24%
100-K-84_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.36E+03	--	--	--	1.60E+07	8.51E-05	0.01%
100-K-84_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	6.62E+01	--	--	--	8.00E+04	8.28E-04	0.06%
100-K-84_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.25E+03	--	--	--	1.20E+08	7.71E-05	0.01%
100-K-84_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.13E+03	--	--	--	2.40E+04	3.80E-01	26.81%
100-K-84_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.42E+04	--	--	--	3.20E+06	7.56E-03	0.53%
100-K-84_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.49E+07	--	--	--	5.60E+07	4.45E-01	31.37%
100-K-84_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.39E+05	--	--	--	1.12E+07	3.03E-02	2.14%
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	2.40E+04	2.05E-02	1.45%
100-K-84_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.45E+02	--	--	--	4.00E+05	8.63E-04	0.06%
100-K-84_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	--	--	--	1.60E+06	6.72E-03	0.47%
100-K-84_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	4.00E+05	1.47E-01	10.38%
100-K-84_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.22E+04	--	--	--	2.40E+07	2.18E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.59E-06**	**--**	**--**	**1.42E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.59E-06**	**--**	**--**	**--**	**--**
100-K-85_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	--	--	--	8.00E+07	9.56E-02	8.32%
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.20E-06	100.00%	2.40E+04	1.17E-01	10.15%
100-K-85_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.60E+07	3.54E-03	0.31%
100-K-85_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.30E+02	--	--	--	1.60E+05	1.44E-03	0.13%
100-K-85_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.10E+03	--	--	--	1.60E+07	6.88E-05	0.01%
100-K-85_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.20E+01	--	--	--	8.00E+04	7.75E-04	0.07%
100-K-85_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7.80E+03	--	--	--	1.20E+08	6.50E-05	0.01%
100-K-85_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.40E+03	--	--	--	2.40E+04	3.50E-01	30.44%
100-K-85_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.81E+04	--	--	--	3.20E+06	5.66E-03	0.49%
100-K-85_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	--	--	--	5.60E+07	4.05E-01	35.25%
100-K-85_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.27E+05	--	--	--	1.12E+07	2.92E-02	2.54%
100-K-85_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	9.90E+00	--	--	--	2.40E+04	4.13E-04	0.04%
100-K-85_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.60E+02	--	--	--	4.00E+05	9.00E-04	0.08%
100-K-85_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.90E+03	--	--	--	1.60E+06	6.19E-03	0.54%
100-K-85_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	4.00E+05	1.32E-01	11.48%
100-K-85_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.65E+04	--	--	--	2.40E+07	1.94E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.20E-06**	**--**	**--**	**1.15E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.20E-06**	**--**	**--**	**--**	**--**
100-K-86_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.78E+06	--	--	--	8.00E+07	1.22E-01	9.42%
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.70E+02	--	--	--	3.20E+04	1.47E-02	1.13%
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.20E-06	99.72%	2.40E+04	1.17E-01	8.99%
100-K-86_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.61E+04	--	--	--	1.60E+07	4.76E-03	0.37%
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	1.00E+04	4.50E-10	0.01%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	1.00E+03	1.00E-08	0.24%	2.40E+04	4.17E-04	0.03%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	1.00E+04	1.20E-09	0.03%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.30E+02	--	--	--	1.60E+05	2.69E-03	0.21%
100-K-86_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.60E+07	1.19E-04	0.01%
100-K-86_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	5.80E+01	--	--	--	8.00E+04	7.25E-04	0.06%
100-K-86_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.20E+08	9.08E-05	0.01%
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	1.00E+06	1.70E-11	0.00%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.90E+03	--	--	--	2.40E+04	4.13E-01	31.78%
100-K-86_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.85E+04	--	--	--	3.20E+06	5.78E-03	0.45%
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	3.00E+01	--	--	--	3.20E+06	9.38E-06	0.00%
100-K-86_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.38E+07	--	--	--	5.60E+07	4.25E-01	32.74%
100-K-86_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.12E+07	3.56E-02	2.74%
100-K-86_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.00E+05	7.50E-04	0.06%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-86_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	--	--	--	1.60E+06	6.56E-03	0.51%
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.30E+01	--	--	--	2.40E+06	1.79E-05	0.00%
100-K-86_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	4.00E+05	1.47E-01	11.35%
100-K-86_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.88E+04	--	--	--	2.40E+07	2.03E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.21E-06**	**--**	**--**	**1.30E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.21E-06**	**--**	**--**	**--**	**--**
100-K-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.35E+06	--	--	--	8.00E+07	1.04E-01	9.75%
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	8.90E+02	--	--	--	3.20E+04	2.78E-02	2.60%
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9.10E+03	6.67E+02	1.36E-05	100.00%	2.40E+04	3.79E-01	35.43%
100-K-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.03E+05	--	--	--	1.60E+07	6.44E-03	0.60%
100-K-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	--	--	--	1.60E+05	1.31E-03	0.12%
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	1.60E+07	5.94E-04	0.06%
100-K-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.54E+04	--	--	--	1.20E+08	1.28E-04	0.01%
100-K-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4.40E+03	--	--	--	2.40E+04	1.83E-01	17.13%
100-K-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.90E+04	--	--	--	3.20E+06	5.94E-03	0.55%
100-K-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.34E+07	--	--	--	5.60E+07	2.39E-01	22.36%
100-K-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.12E+07	2.30E-02	2.15%
100-K-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.20E+00	--	--	--	2.40E+04	3.00E-04	0.03%
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	9.80E+02	--	--	--	4.00E+05	2.45E-03	0.23%
100-K-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	--	--	--	1.60E+06	6.94E-03	0.65%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	4.00E+05	3.00E-03	0.28%
100-K-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.36E+04	--	--	--	4.00E+05	8.40E-02	7.85%
100-K-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.21E+04	--	--	--	2.40E+07	2.17E-03	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.36E-05**	**--**	**--**	**1.07E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.36E-05**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	8.00E+07	1.30E-01	9.75%
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.34E+02	--	--	--	3.20E+04	1.36E-02	1.02%
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4.08E+03	6.67E+02	6.13E-06	99.19%	2.40E+04	1.70E-01	12.81%
100-K-89, 600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.60E+07	5.03E-03	0.38%
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	1.00E+04	4.20E-09	0.07%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	1.00E+03	3.90E-08	0.63%	2.40E+04	1.63E-03	0.12%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	1.00E+04	6.49E-09	0.11%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.86E+02	--	--	--	1.60E+05	4.29E-03	0.32%
100-K-89, 600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2.12E+03	--	--	--	1.60E+07	1.32E-04	0.01%
100-K-89, 600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.76E+01	--	--	--	8.00E+04	1.10E-03	0.08%
100-K-89, 600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.22E+04	--	--	--	1.20E+08	1.02E-04	0.01%
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	1.00E+06	4.67E-11	0.00%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.92E+03	--	--	--	2.40E+04	3.72E-01	27.99%
100-K-89, 600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.59E+04	--	--	--	3.20E+06	4.96E-03	0.37%
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.79E+01	--	--	--	3.20E+06	2.75E-05	0.00%
100-K-89, 600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	--	--	--	5.60E+07	4.27E-01	32.15%
100-K-89, 600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.06E+05	--	--	--	1.12E+07	3.63E-02	2.73%
100-K-89, 600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.70E+00	--	--	--	2.40E+04	2.38E-04	0.02%
100-K-89, 600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.70E+02	--	--	--	4.00E+05	6.75E-04	0.05%
100-K-89, 600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	--	--	--	1.60E+06	7.19E-03	0.54%
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.34E+01	--	--	--	2.40E+06	2.64E-05	0.00%
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	4.00E+05	2.24E-03	0.17%
100-K-89, 600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.01E+04	--	--	--	4.00E+05	1.50E-01	11.32%
100-K-89, 600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.75E+04	--	--	--	2.40E+07	1.98E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.18E-06**	**--**	**--**	**1.33E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.18E-06**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	--	--	--	8.00E+07	1.36E-01	6.92%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	2.60E+01	--	--	--	2.40E+07	1.08E-06	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+03	--	--	--	3.20E+04	1.28E-01	6.51%
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.54E+04	6.67E+02	2.31E-05	99.36%	2.40E+04	6.42E-01	32.60%
100-K-89, 600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.60E+07	5.28E-03	0.27%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	1.00E+04	1.90E-08	0.08%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	1.00E+03	1.00E-07	0.43%	2.40E+04	4.17E-03	0.21%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	1.00E+04	2.60E-08	0.11%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	7.10E+02	--	--	--	1.60E+05	4.44E-03	0.23%
100-K-89, 600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.50E+03	--	--	--	1.60E+07	1.56E-04	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	--	--	--	8.00E+04	1.63E-03	0.08%
100-K-89, 600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.22E+04	--	--	--	1.20E+08	1.02E-04	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	1.00E+06	2.50E-10	0.00%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	--	--	--	2.40E+04	4.00E-01	20.32%
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.95E+04	--	--	--	3.20E+06	9.22E-03	0.47%
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.30E+02	--	--	--	3.20E+06	1.66E-04	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	1.00E+04	4.20E-09	0.02%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	--	--	--	5.60E+07	4.39E-01	22.32%
100-K-89, 600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.10E+05	--	--	--	1.12E+07	3.66E-02	1.86%
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.40E+04	6.67E-04	0.03%
100-K-89, 600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.40E+02	--	--	--	4.00E+05	1.10E-03	0.06%
100-K-89, 600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.28E+04	--	--	--	1.60E+06	8.00E-03	0.41%
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.40E+02	--	--	--	2.40E+06	1.83E-04	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	4.00E+05	2.23E-03	0.11%
100-K-89, 600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	4.00E+05	1.44E-01	7.32%
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.24E+05	--	--	--	2.40E+07	5.17E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.32E-05**	**--**	**--**	**1.97E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.32E-05**	**--**	**--**	**--**	**--**
100-K-90_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.65E+06	--	--	--	8.00E+07	2.06E-02	10.20%
100-K-90_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.70E+04	--	--	--	1.60E+07	1.06E-03	0.53%
100-K-90_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.80E+01	--	--	--	1.60E+05	3.63E-04	0.18%
100-K-90_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.40E+03	--	--	--	1.20E+08	1.17E-05	0.01%
100-K-90_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.60E+03	--	--	--	2.40E+04	6.67E-02	32.98%
100-K-90_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.60E+03	--	--	--	3.20E+06	1.13E-03	0.56%
100-K-90_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	4.25E+06	--	--	--	5.60E+07	7.59E-02	37.55%
100-K-90_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.17E+04	--	--	--	1.12E+07	5.51E-03	2.73%
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	2.40E+04	7.08E-04	0.35%
100-K-90_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.50E+02	--	--	--	4.00E+05	8.75E-04	0.43%
100-K-90_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.90E+03	--	--	--	1.60E+06	1.19E-03	0.59%
100-K-90_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	1.10E+04	--	--	--	4.00E+05	2.75E-02	13.61%
100-K-90_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.41E+04	--	--	--	2.40E+07	5.88E-04	0.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.02E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-91_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	8.00E+07	1.01E-01	9.72%
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	6.67E+02	3.45E-06	100.00%	2.40E+04	9.58E-02	9.19%
100-K-91_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.21E+04	--	--	--	1.60E+07	3.88E-03	0.37%
100-K-91_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	--	--	--	1.60E+05	2.00E-03	0.19%
100-K-91_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	1.60E+07	1.25E-04	0.01%
100-K-91_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.80E+03	--	--	--	1.20E+08	8.17E-05	0.01%
100-K-91_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.80E+03	--	--	--	2.40E+04	2.83E-01	27.17%
100-K-91_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.35E+04	--	--	--	3.20E+06	4.22E-03	0.40%
100-K-91_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	--	--	--	5.60E+07	3.11E-01	29.80%
100-K-91_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.12E+07	2.60E-02	2.49%
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	2.40E+04	1.13E-01	10.79%
100-K-91_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.60E+03	--	--	--	1.60E+06	6.00E-03	0.58%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-91_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.68E+04	--	--	--	4.00E+05	9.20E-02	8.82%
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.13E+05	--	--	--	2.40E+07	4.71E-03	0.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.45E-06**	**--**	**--**	**1.04E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.45E-06**	**--**	**--**	**--**	**--**
100-K-92_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.86E+06	--	--	--	8.00E+07	1.11E-01	9.64%
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.90E+03	6.67E+02	4.35E-06	99.98%	2.40E+04	1.21E-01	10.52%
100-K-92_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.09E+04	--	--	--	1.60E+07	4.43E-03	0.39%
100-K-92_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.90E+02	--	--	--	1.60E+05	2.44E-03	0.21%
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	7.14E+04	1.06E-09	0.02%	1.60E+06	4.75E-05	0.00%
100-K-92_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.30E+03	--	--	--	1.60E+07	1.44E-04	0.01%
100-K-92_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.40E+02	--	--	--	8.00E+04	1.75E-03	0.15%
100-K-92_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.60E+03	--	--	--	1.20E+08	8.00E-05	0.01%
100-K-92_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	--	--	--	2.40E+04	3.67E-01	31.92%
100-K-92_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.20E+06	6.09E-03	0.53%
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	--	--	--	2.40E+05	9.00E-04	0.08%
100-K-92_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.09E+07	--	--	--	5.60E+07	3.73E-01	32.48%
100-K-92_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.12E+07	3.23E-02	2.81%
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1.70E+03	--	--	--	4.00E+05	4.25E-03	0.37%
100-K-92_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	--	--	--	1.60E+06	7.00E-03	0.61%
100-K-92_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.64E+04	--	--	--	4.00E+05	1.16E-01	10.10%
100-K-92_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.71E+04	--	--	--	2.40E+07	1.96E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.35E-06**	**--**	**--**	**1.15E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.35E-06**	**--**	**--**	**--**	**--**
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.91E+01	--	--	--	4.80E+06	3.97E-06	0.32%
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	1.00E+04	5.43E-09	13.84%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	1.00E+03	2.70E-08	68.85%	2.40E+04	1.12E-03	92.02%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	1.00E+04	4.54E-09	11.58%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	1.00E+05	1.76E-10	0.45%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	1.00E+06	5.87E-11	0.15%	--	--	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1.19E+02	--	--	--	3.20E+06	3.72E-05	3.05%
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	8.90E+00	--	--	--	3.20E+06	2.78E-06	0.23%
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	1.00E+04	2.01E-09	5.13%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	--	--	--	1.60E+06	1.00E-05	0.82%
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1.04E+02	--	--	--	2.40E+06	4.35E-05	3.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.92E-08**	**--**	**--**	**1.22E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.92E-08**	**--**	**--**	**--**	**--**
116-K-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.50E+01	4.40E+00	3.41E-04	35.00%	--	--	--
116-K-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.50E+00	3.10E+00	8.08E-05	8.29%	--	--	--
116-K-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.49E+00	3.60E+00	1.53E-04	15.67%	--	--	--
116-K-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.01E+00	4.50E+00	2.25E-05	2.31%	--	--	--
116-K-1_Deep	Rad	Strontium-90	10098-97-2	pCi/g	8.60E+00	2.28E+00	3.77E-04	38.73%	--	--	--
Total Radiological Risk Estimate							**9.74E-04**	**--**	**--**	**--**	**--**
116-K-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.20E+08	1.05E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.05E-04**	**--**
116-K-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	2.78E-01	4.40E+00	6.31E-06	13.14%	--	--	--
116-K-1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	2.57E-01	3.60E+00	7.13E-06	14.84%	--	--	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	7.89E-01	2.28E+00	3.46E-05	72.03%	--	--	--
Total Radiological Risk Estimate							**4.81E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.81E-05**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.37E+04	--	--	--	1.20E+08	1.14E-04	9.54%
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	--	--	--	2.40E+05	1.08E-03	90.46%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.20E-03**	**--**
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.24E+00	4.40E+00	2.82E-05	25.12%	--	--	--
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	3.10E+00	1.23E-06	1.09%	--	--	--
116-K-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	3.60E+00	6.26E-06	5.58%	--	--	--
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	1.74E+00	2.28E+00	7.65E-05	68.21%	--	--	--
Total Radiological Risk Estimate							**1.12E-04**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.12E-04**	**--**	**--**	**--**	**--**
116-K-2_Deep_1	Rad	Americium-241	14596-10-2	pCi/g	4.91E+00	1.53E+02	3.21E-06	0.05%	--	--	--
116-K-2_Deep_1	Rad	Carbon-14	14762-75-5	pCi/g	2.00E+00	8.10E+01	2.47E-06	0.04%	--	--	--
116-K-2_Deep_1	Rad	Cesium-137	10045-97-3	pCi/g	1.40E+02	4.40E+00	3.19E-03	54.61%	--	--	--
116-K-2_Deep_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.79E+00	3.10E+00	8.99E-05	1.54%	--	--	--
116-K-2_Deep_1	Rad	Europium-152	14683-23-9	pCi/g	6.86E+01	3.60E+00	1.91E-03	32.61%	--	--	--
116-K-2_Deep_1	Rad	Europium-154	15585-10-1	pCi/g	6.24E+00	4.50E+00	1.39E-04	2.37%	--	--	--
116-K-2_Deep_1	Rad	Nickel-63	13981-37-8	pCi/g	9.95E+02	5.94E+02	1.67E-04	2.87%	--	--	--
116-K-2_Deep_1	Rad	Plutonium-238	13981-16-3	pCi/g	7.23E-01	2.36E+02	3.06E-07	0.01%	--	--	--
116-K-2_Deep_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.91E+00	2.03E+02	3.90E-06	0.07%	--	--	--
116-K-2_Deep_1	Rad	Strontium-90	10098-97-2	pCi/g	7.72E+00	2.28E+00	3.39E-04	5.79%	--	--	--
116-K-2_Deep_1	Rad	Uranium-233/234	U-233/234	pCi/g	8.55E-01	1.33E+02	6.43E-07	0.01%	--	--	--
116-K-2_Deep_1	Rad	Uranium-235	15117-96-1	pCi/g	4.45E-02	1.54E+01	2.89E-07	0.00%	--	--	--
116-K-2_Deep_1	Rad	Uranium-238	U-238	pCi/g	7.29E-01	5.20E+01	1.40E-06	0.02%	--	--	--
Total Radiological Risk Estimate							**5.84E-03**	**--**	**--**	**--**	**--**
116-K-2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	3.94E+00	1.53E+02	2.57E-06	0.04%	--	--	--
116-K-2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	4.62E+00	8.10E+01	5.70E-06	0.09%	--	--	--
116-K-2_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	1.44E+02	4.40E+00	3.28E-03	51.30%	--	--	--
116-K-2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.43E+00	3.10E+00	1.43E-04	2.23%	--	--	--
116-K-2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	8.23E+01	3.60E+00	2.29E-03	35.72%	--	--	--
116-K-2_Deep_2	Rad	Europium-154	15585-10-1	pCi/g	1.21E+01	4.50E+00	2.69E-04	4.21%	--	--	--
116-K-2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	6.59E+02	5.94E+02	1.11E-04	1.73%	--	--	--
116-K-2_Deep_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.37E-01	2.36E+02	1.01E-07	0.00%	--	--	--
116-K-2_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.95E+00	2.03E+02	2.93E-06	0.05%	--	--	--
116-K-2_Deep_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E+00	2.28E+00	2.94E-04	4.59%	--	--	--
116-K-2_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	7.54E-01	1.33E+02	5.67E-07	0.01%	--	--	--
116-K-2_Deep_2	Rad	Uranium-238	U-238	pCi/g	7.32E-01	5.20E+01	1.41E-06	0.02%	--	--	--
Total Radiological Risk Estimate							**6.40E-03**	**--**	**--**	**--**	**--**
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	--	--	--	2.40E+05	1.22E-03	12.59%
116-K-2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.03E+03	--	--	--	2.40E+05	8.45E-03	87.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**9.66E-03**	**--**
116-K-2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	9.37E-02	4.40E+00	2.13E-06	23.08%	--	--	--
116-K-2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.91E-01	3.60E+00	5.29E-06	57.36%	--	--	--
116-K-2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	6.59E-01	1.33E+02	4.96E-07	5.37%	--	--	--
116-K-2_Overburden	Rad	Uranium-238	U-238	pCi/g	6.81E-01	5.20E+01	1.31E-06	14.19%	--	--	--
Total Radiological Risk Estimate							**9.23E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.23E-06**	**--**	**--**	**--**	**--**
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	--	--	--	2.40E+05	2.79E-03	26.88%
116-K-2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.82E+03	--	--	--	2.40E+05	7.60E-03	73.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.04E-02**	**--**
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	2.98E+00	8.10E+01	3.68E-06	9.40%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	6.31E-01	4.40E+00	1.43E-05	36.64%	--	--	--
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.46E-01	3.60E+00	9.61E-06	24.56%	--	--	--
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	pCi/g	7.83E+00	5.94E+02	1.32E-06	3.37%	--	--	--
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.94E-01	2.28E+00	8.51E-06	21.74%	--	--	--
116-K-2_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	6.68E-01	1.33E+02	5.02E-07	1.28%	--	--	--
116-K-2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	6.12E-01	5.20E+01	1.18E-06	3.01%	--	--	--
Total Radiological Risk Estimate							**3.91E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**3.91E-05**	--	--	--	--
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	--	--	--	2.40E+05	1.04E-03	11.18%
116-K-2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.99E+03	--	--	--	2.40E+05	8.29E-03	88.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	--	--	**9.33E-03**	--
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.00E+00	4.40E+00	4.55E-05	58.82%	--	--	--
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	6.84E-01	3.60E+00	1.90E-05	24.53%	--	--	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.72E-01	4.50E+00	3.82E-06	4.93%	--	--	--
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	5.03E+00	5.94E+02	8.47E-07	1.09%	--	--	--
116-K-2_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.46E-01	2.28E+00	6.39E-06	8.26%	--	--	--
116-K-2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	7.28E-01	1.33E+02	5.48E-07	0.71%	--	--	--
116-K-2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	6.68E-01	5.20E+01	1.28E-06	1.66%	--	--	--
Total Radiological Risk Estimate							**7.74E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**7.74E-05**	--	--	--	--
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	--	--	--	2.40E+05	5.04E-03	42.18%
116-KE-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.66E+03	--	--	--	2.40E+05	6.92E-03	57.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	--	--	**1.20E-02**	--
116-KE-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.22E-01	4.40E+00	5.03E-06	11.80%	--	--	--
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	8.60E-02	3.10E+00	2.77E-06	6.50%	--	--	--
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	6.91E-01	3.60E+00	1.92E-05	44.97%	--	--	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	1.88E-01	4.50E+00	4.17E-06	9.78%	--	--	--
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.99E+00	5.94E+02	8.41E-07	1.97%	--	--	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	2.05E-01	2.28E+00	9.00E-06	21.08%	--	--	--
116-KE-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	6.14E-01	1.33E+02	4.61E-07	1.08%	--	--	--
116-KE-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	2.00E-02	1.54E+01	1.30E-07	0.30%	--	--	--
116-KE-4_Shallow	Rad	Uranium-238	U-238	pCi/g	5.57E-01	5.20E+01	1.07E-06	2.51%	--	--	--
Total Radiological Risk Estimate							**4.27E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**4.27E-05**	--	--	--	--
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	6.67E+02	5.55E-06	100.00%	2.40E+04	1.54E-01	91.17%
116-KE-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.00E+05	--	--	--	1.60E+07	6.25E-03	3.70%
116-KE-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.95E+02	--	--	--	8.00E+04	2.44E-03	1.44%
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.20E+08	2.50E-04	0.15%
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	1.60E+08	3.69E-04	0.22%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	--	--	--	2.40E+05	1.38E-03	0.81%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	2.40E+04	4.25E-03	2.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.55E-06**	--	--	**1.69E-01**	--
Total Non-Radiological and Radiological Risk Estimate							**5.55E-06**	--	--	--	--
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	--	--	--	2.40E+05	2.26E-03	22.01%
116-KW-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.92E+03	--	--	--	2.40E+05	8.02E-03	77.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	--	--	**1.03E-02**	--
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.32E-01	1.53E+02	3.48E-07	0.60%	--	--	--
116-KW-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.81E-01	4.40E+00	4.11E-06	7.05%	--	--	--
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.02E-01	3.10E+00	3.28E-06	5.64%	--	--	--
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.52E+00	3.60E+00	4.22E-05	72.42%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.65E-01	4.50E+00	5.88E-06	10.10%	--	--	--
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	9.18E-01	2.03E+02	4.52E-07	0.78%	--	--	--
116-KW-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	6.56E-01	1.33E+02	4.93E-07	0.85%	--	--	--
116-KW-3_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	3.90E-02	1.54E+01	2.53E-07	0.44%	--	--	--
116-KW-3_Shallow	Rad	Uranium-238	U-238	pCi/g	6.46E-01	5.20E+01	1.24E-06	2.13%	--	--	--
Total Radiological Risk Estimate							**5.82E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.82E-05**	**--**	**--**	**--**	**--**
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	6.67E+02	3.90E-06	100.00%	2.40E+04	1.08E-01	95.75%
116-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.93E+04	--	--	--	1.60E+07	3.71E-03	3.28%
116-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.21E+04	--	--	--	1.20E+08	1.01E-04	0.09%
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	--	--	--	2.40E+05	1.00E-03	0.88%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.90E-06**	**--**	**--**	**1.13E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.90E-06**	**--**	**--**	**--**	**--**
118-K-1_Overburden_12	non-Rad	Aluminum	7429-90-5	ug/kg	9.09E+06	--	--	--	8.00E+07	1.14E-01	8.44%
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	6.67E+02	4.65E-06	100.00%	2.40E+04	1.29E-01	9.60%
118-K-1_Overburden_12	non-Rad	Barium	7440-39-3	ug/kg	7.20E+04	--	--	--	1.60E+07	4.50E-03	0.33%
118-K-1_Overburden_12	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	--	--	--	1.60E+05	2.21E-03	0.16%
118-K-1_Overburden_12	non-Rad	Boron	7440-42-8	ug/kg	1.69E+03	--	--	--	1.60E+07	1.06E-04	0.01%
118-K-1_Overburden_12	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	--	--	--	8.00E+04	1.39E-03	0.10%
118-K-1_Overburden_12	non-Rad	Chromium	7440-47-3	ug/kg	1.06E+04	--	--	--	1.20E+08	8.82E-05	0.01%
118-K-1_Overburden_12	non-Rad	Cobalt	7440-48-4	ug/kg	8.72E+03	--	--	--	2.40E+04	3.63E-01	26.99%
118-K-1_Overburden_12	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.20E+06	5.53E-03	0.41%
118-K-1_Overburden_12	non-Rad	Iron	7439-89-6	ug/kg	2.78E+07	--	--	--	5.60E+07	4.96E-01	36.84%
118-K-1_Overburden_12	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.12E+07	3.50E-02	2.60%
118-K-1_Overburden_12	non-Rad	Molybdenum	7439-98-7	ug/kg	4.66E+02	--	--	--	4.00E+05	1.16E-03	0.09%
118-K-1_Overburden_12	non-Rad	Nickel	7440-02-0	ug/kg	9.88E+03	--	--	--	1.60E+06	6.18E-03	0.46%
118-K-1_Overburden_12	non-Rad	Vanadium	7440-62-2	ug/kg	7.43E+04	--	--	--	4.00E+05	1.86E-01	13.80%
118-K-1_Overburden_12	non-Rad	Zinc	7440-66-6	ug/kg	5.10E+04	--	--	--	2.40E+07	2.13E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.65E-06**	**--**	**--**	**1.35E+00**	**--**
118-K-1_Overburden_12	Rad	Cesium-137	10045-97-3	pCi/g	1.13E-01	4.40E+00	2.57E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**2.57E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.22E-06**	**--**	**--**	**--**	**--**
118-K-1_Overburden_13	non-Rad	Aluminum	7429-90-5	ug/kg	9.44E+06	--	--	--	8.00E+07	1.18E-01	9.83%
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	ug/kg	2.76E+03	6.67E+02	4.14E-06	100.00%	2.40E+04	1.15E-01	9.58%
118-K-1_Overburden_13	non-Rad	Barium	7440-39-3	ug/kg	7.05E+04	--	--	--	1.60E+07	4.41E-03	0.37%
118-K-1_Overburden_13	non-Rad	Beryllium	7440-41-7	ug/kg	3.43E+02	--	--	--	1.60E+05	2.14E-03	0.18%
118-K-1_Overburden_13	non-Rad	Boron	7440-42-8	ug/kg	1.68E+03	--	--	--	1.60E+07	1.05E-04	0.01%
118-K-1_Overburden_13	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	--	--	--	8.00E+04	1.40E-03	0.12%
118-K-1_Overburden_13	non-Rad	Chromium	7440-47-3	ug/kg	1.06E+04	--	--	--	1.20E+08	8.83E-05	0.01%
118-K-1_Overburden_13	non-Rad	Cobalt	7440-48-4	ug/kg	7.38E+03	--	--	--	2.40E+04	3.08E-01	25.61%
118-K-1_Overburden_13	non-Rad	Copper	7440-50-8	ug/kg	1.51E+04	--	--	--	3.20E+06	4.72E-03	0.39%
118-K-1_Overburden_13	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	--	--	--	5.60E+07	4.43E-01	36.88%
118-K-1_Overburden_13	non-Rad	Manganese	7439-96-5	ug/kg	3.73E+05	--	--	--	1.12E+07	3.33E-02	2.77%
118-K-1_Overburden_13	non-Rad	Molybdenum	7439-98-7	ug/kg	4.24E+02	--	--	--	4.00E+05	1.06E-03	0.09%
118-K-1_Overburden_13	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	--	--	--	1.60E+06	6.56E-03	0.55%
118-K-1_Overburden_13	non-Rad	Vanadium	7440-62-2	ug/kg	6.46E+04	--	--	--	4.00E+05	1.62E-01	13.45%
118-K-1_Overburden_13	non-Rad	Zinc	7440-66-6	ug/kg	4.95E+04	--	--	--	2.40E+07	2.06E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.14E-06**	**--**	**--**	**1.20E+00**	**--**
118-K-1_Overburden_13	Rad	Cesium-137	10045-97-3	pCi/g	8.40E-02	4.40E+00	1.91E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**1.91E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.05E-06**	**--**	**--**	**--**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	8.00E+07	1.01E-01	7.69%
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.20E-06	100.00%	2.40E+04	1.17E-01	8.85%
118-K-1_P1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.60E+07	3.84E-03	0.29%
118-K-1_P1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	6.00E+02	--	--	--	1.60E+05	3.75E-03	0.28%
118-K-1_P1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	1.60E+07	8.13E-05	0.01%
118-K-1_P1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	--	--	--	8.00E+04	2.50E-03	0.19%
118-K-1_P1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	1.10E+04	--	--	--	1.20E+08	9.17E-05	0.01%
118-K-1_P1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.30E+03	--	--	--	2.40E+04	3.46E-01	26.24%
118-K-1_P1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.79E+04	--	--	--	3.20E+06	5.59E-03	0.42%
118-K-1_P1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.86E+07	--	--	--	5.60E+07	5.11E-01	38.75%
118-K-1_P1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.66E+05	--	--	--	1.12E+07	3.27E-02	2.48%
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.00E+05	1.47E-03	0.11%
118-K-1_P1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	--	--	--	1.60E+06	7.25E-03	0.55%
118-K-1_P1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	4.00E+05	1.84E-01	13.95%
118-K-1_P1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	5.60E+04	--	--	--	2.40E+07	2.33E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.20E-06**	**--**	**--**	**1.32E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.20E-06**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.68E+06	--	--	--	8.00E+07	1.08E-01	7.48%
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4.29E+03	6.67E+02	6.43E-06	100.00%	2.40E+04	1.79E-01	12.33%
118-K-1_P1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.45E+04	--	--	--	1.60E+07	4.66E-03	0.32%
118-K-1_P1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.88E+02	--	--	--	1.60E+05	2.43E-03	0.17%
118-K-1_P1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.60E+03	--	--	--	1.60E+07	1.63E-04	0.01%
118-K-1_P1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	2.88E+02	--	--	--	8.00E+04	3.60E-03	0.25%
118-K-1_P1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	1.28E+04	--	--	--	1.20E+08	1.07E-04	0.01%
118-K-1_P1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.97E+03	--	--	--	2.40E+04	4.16E-01	28.67%
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.20E+06	6.96E-03	0.48%
118-K-1_P1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	--	--	--	5.60E+07	5.01E-01	34.57%
118-K-1_P1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.12E+07	3.47E-02	2.40%
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	7.76E+02	--	--	--	4.00E+05	1.94E-03	0.13%
118-K-1_P1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	--	--	--	1.60E+06	8.25E-03	0.57%
118-K-1_P1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	4.00E+05	1.80E-01	12.40%
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.54E+04	--	--	--	2.40E+07	3.14E-03	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.43E-06**	**--**	**--**	**1.45E+00**	**--**
118-K-1_P1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.84E-01	4.40E+00	4.18E-06	31.46%	--	--	--
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	3.28E-01	3.60E+00	9.11E-06	68.54%	--	--	--
Total Radiological Risk Estimate							**1.33E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.97E-05**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	8.17E+06	--	--	--	8.00E+07	1.02E-01	6.73%
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.82E+03	6.67E+02	4.23E-06	100.00%	2.40E+04	1.17E-01	7.75%
118-K-1_P1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.60E+07	4.13E-03	0.27%
118-K-1_P1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	--	--	--	1.60E+05	4.38E-03	0.29%
118-K-1_P1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.43E+03	--	--	--	1.60E+07	8.91E-05	0.01%
118-K-1_P1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	--	--	--	8.00E+04	2.50E-03	0.16%
118-K-1_P1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	1.12E+04	--	--	--	1.20E+08	9.30E-05	0.01%
118-K-1_P1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	--	--	--	2.40E+04	4.08E-01	26.93%
118-K-1_P1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.20E+06	5.28E-03	0.35%
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	3.36E+07	--	--	--	5.60E+07	6.00E-01	39.57%
118-K-1_P1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.91E+05	--	--	--	1.12E+07	3.49E-02	2.30%
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.00E+05	1.47E-03	0.10%
118-K-1_P1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	--	--	--	1.60E+06	6.88E-03	0.45%
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	4.00E+05	2.26E-01	14.92%
118-K-1_P1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	6.07E+04	--	--	--	2.40E+07	2.53E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.23E-06**	**--**	**--**	**1.52E+00**	**--**

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**4.23E-06**	--	--	--	--
118-K-1_P1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.03E+07	--	--	--	8.00E+07	1.29E-01	9.30%
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	ug/kg	4.00E+02	--	--	--	3.20E+04	1.25E-02	0.90%
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5.30E+03	6.67E+02	7.95E-06	100.00%	2.40E+04	2.21E-01	15.95%
118-K-1_P1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	8.81E+04	--	--	--	1.60E+07	5.51E-03	0.40%
118-K-1_P1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	7.25E+02	--	--	--	1.60E+05	4.53E-03	0.33%
118-K-1_P1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	1.60E+07	1.51E-04	0.01%
118-K-1_P1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	3.37E+02	--	--	--	8.00E+04	4.21E-03	0.30%
118-K-1_P1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	1.45E+04	--	--	--	1.20E+08	1.21E-04	0.01%
118-K-1_P1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	--	--	--	2.40E+04	3.30E-01	23.84%
118-K-1_P1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	1.96E+04	--	--	--	3.20E+06	6.14E-03	0.44%
118-K-1_P1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.57E+07	--	--	--	5.60E+07	4.59E-01	33.13%
118-K-1_P1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	4.00E+05	--	--	--	1.12E+07	3.58E-02	2.58%
118-K-1_P1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+01	--	--	--	2.40E+04	4.17E-04	0.03%
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	7.46E+02	--	--	--	4.00E+05	1.86E-03	0.13%
118-K-1_P1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	--	--	--	1.60E+06	8.35E-03	0.60%
118-K-1_P1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	4.00E+05	1.64E-01	11.87%
118-K-1_P1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.40E+07	2.34E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.95E-06**	--	--	**1.38E+00**	--
118-K-1_P1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	3.23E-01	4.40E+00	7.33E-06	2.88%	--	--	--
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E-01	3.60E+00	3.70E-06	1.45%	--	--	--
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	pCi/g	5.55E+00	2.28E+00	2.43E-04	95.66%	--	--	--
Total Radiological Risk Estimate							**2.54E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.62E-04**	--	--	--	--
118-K-1_P1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	9.57E+06	--	--	--	8.00E+07	1.20E-01	8.09%
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3.71E+03	6.67E+02	5.56E-06	100.00%	2.40E+04	1.54E-01	10.45%
118-K-1_P1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.28E+04	--	--	--	1.60E+07	4.55E-03	0.31%
118-K-1_P1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	--	--	--	1.60E+05	4.38E-03	0.30%
118-K-1_P1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.60E+07	1.19E-04	0.01%
118-K-1_P1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	--	--	--	8.00E+04	2.50E-03	0.17%
118-K-1_P1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	1.28E+04	--	--	--	1.20E+08	1.07E-04	0.01%
118-K-1_P1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	--	--	--	2.40E+04	4.28E-01	28.97%
118-K-1_P1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	1.94E+04	--	--	--	3.20E+06	6.06E-03	0.41%
118-K-1_P1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	--	--	--	5.60E+07	5.13E-01	34.68%
118-K-1_P1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	4.16E+05	--	--	--	1.12E+07	3.71E-02	2.51%
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	5.00E+05	1.20E-11	0.00%	4.80E+05	1.25E-05	0.00%
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.00E+05	1.50E-03	0.10%
118-K-1_P1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	1.35E+04	--	--	--	1.60E+06	8.43E-03	0.57%
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	7.74E+04	--	--	--	5.68E+08	1.36E-04	0.01%
118-K-1_P1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.36E+03	--	--	--	2.40E+05	9.81E-03	0.66%
118-K-1_P1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.44E+04	--	--	--	4.00E+05	1.86E-01	12.59%
118-K-1_P1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	5.81E+04	--	--	--	2.40E+07	2.42E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.56E-06**	--	--	**1.48E+00**	--
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.52E+00	4.40E+00	5.73E-05	57.29%	--	--	--
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	pCi/g	8.20E-02	3.10E+00	2.65E-06	2.65%	--	--	--
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.30E-02	2.03E+02	3.60E-08	0.04%	--	--	--
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	pCi/g	8.60E-01	2.28E+00	3.77E-05	37.73%	--	--	--
118-K-1_P1_Shallow_5	Rad	Uranium-233/234	U-233/234	pCi/g	1.03E+00	1.33E+02	7.71E-07	0.77%	--	--	--
118-K-1_P1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	7.91E-01	5.20E+01	1.52E-06	1.52%	--	--	--
Total Radiological Risk Estimate							**1.00E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.06E-04**	--	--	--	--
118-K-1_P1_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.76E+06	--	--	--	8.00E+07	1.10E-01	7.47%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	4.80E+03	6.67E+02	7.20E-06	100.00%	2.40E+04	2.00E-01	13.64%
118-K-1_P1_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	6.86E+04	--	--	--	1.60E+07	4.29E-03	0.29%
118-K-1_P1_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.00E+02	--	--	--	1.60E+05	2.50E-03	0.17%
118-K-1_P1_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	1.60E+07	8.13E-05	0.01%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	--	--	--	8.00E+04	2.50E-03	0.17%
118-K-1_P1_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	1.05E+04	--	--	--	1.20E+08	8.75E-05	0.01%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	--	--	--	2.40E+04	4.08E-01	27.85%
118-K-1_P1_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	2.12E+04	--	--	--	3.20E+06	6.63E-03	0.45%
118-K-1_P1_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.82E+07	--	--	--	5.60E+07	5.04E-01	34.34%
118-K-1_P1_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.12E+07	3.64E-02	2.48%
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	5.00E+05	1.80E-11	0.00%	4.80E+05	1.88E-05	0.00%
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.00E+05	1.50E-03	0.10%
118-K-1_P1_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	1.14E+04	--	--	--	1.60E+06	7.13E-03	0.49%
118-K-1_P1_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.81E+04	--	--	--	5.68E+08	3.19E-05	0.00%
118-K-1_P1_Shallow_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.72E+03	--	--	--	2.40E+05	7.18E-03	0.49%
118-K-1_P1_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	6.97E+04	--	--	--	4.00E+05	1.74E-01	11.88%
118-K-1_P1_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	5.75E+04	--	--	--	2.40E+07	2.40E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.20E-06**	**--**	**--**	**1.47E+00**	**--**
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.30E-02	1.53E+02	6.08E-08	0.04%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.70E+00	4.40E+00	8.41E-05	48.51%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	8.70E-02	2.03E+02	4.29E-08	0.02%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.99E+00	2.28E+00	8.73E-05	50.35%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	6.23E-01	1.33E+02	4.68E-07	0.27%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	4.60E-02	1.54E+01	2.99E-07	0.17%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-238	U-238	pCi/g	5.72E-01	5.20E+01	1.10E-06	0.63%	--	--	--
Total Radiological Risk Estimate							**1.73E-04**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.81E-04**	**--**	**--**	**--**	**--**
118-K-1_P2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	2.97E-01	1.53E+02	1.94E-07	0.69%	--	--	--
118-K-1_P2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	1.52E+00	8.10E+01	1.88E-06	6.65%	--	--	--
118-K-1_P2_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	9.30E-02	4.40E+00	2.11E-06	7.49%	--	--	--
118-K-1_P2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	2.31E-01	3.10E+00	7.45E-06	26.42%	--	--	--
118-K-1_P2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	4.64E-01	3.60E+00	1.29E-05	45.70%	--	--	--
118-K-1_P2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	1.10E+01	5.94E+02	1.85E-06	6.57%	--	--	--
118-K-1_P2_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	7.99E-01	1.33E+02	6.00E-07	2.13%	--	--	--
118-K-1_P2_Deep_2	Rad	Uranium-238	U-238	pCi/g	6.39E-01	5.20E+01	1.23E-06	4.35%	--	--	--
Total Radiological Risk Estimate							**2.82E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	2.38E-01	1.53E+02	1.56E-07	0.17%	--	--	--
118-K-1_P2_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	2.33E+00	8.10E+01	2.88E-06	3.18%	--	--	--
118-K-1_P2_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	7.67E-01	4.40E+00	1.74E-05	19.25%	--	--	--
118-K-1_P2_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	6.93E-01	3.10E+00	2.24E-05	24.69%	--	--	--
118-K-1_P2_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	1.07E+00	3.60E+00	2.97E-05	32.82%	--	--	--
118-K-1_P2_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	4.29E-01	4.50E+00	9.53E-06	10.53%	--	--	--
118-K-1_P2_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	3.84E+01	5.94E+02	6.46E-06	7.14%	--	--	--
118-K-1_P2_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.16E-01	2.03E+02	5.71E-08	0.06%	--	--	--
118-K-1_P2_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	8.20E-01	1.33E+02	6.16E-07	0.68%	--	--	--
118-K-1_P2_Deep_3	Rad	Uranium-238	U-238	pCi/g	6.97E-01	5.20E+01	1.34E-06	1.48%	--	--	--
Total Radiological Risk Estimate							**9.06E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	5.03E-01	4.40E+00	1.14E-05	13.13%	--	--	--
118-K-1_P2_Deep_4	Rad	Cobalt-60	10198-40-0	pCi/g	1.66E-01	3.10E+00	5.35E-06	6.15%	--	--	--
118-K-1_P2_Deep_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E+00	3.60E+00	3.69E-05	42.38%	--	--	--
118-K-1_P2_Deep_4	Rad	Nickel-63	13981-37-8	pCi/g	3.44E+00	5.94E+02	5.79E-07	0.66%	--	--	--
118-K-1_P2_Deep_4	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.07E-01	2.03E+02	1.02E-07	0.12%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Deep_4	Rad	Strontium-90	10098-97-2	pCi/g	6.78E-01	2.28E+00	2.97E-05	34.15%	--	--	--
118-K-1_P2_Deep_4	Rad	Tritium	10028-17-8	pCi/g	5.21E+00	6.24E+02	8.35E-07	0.96%	--	--	--
118-K-1_P2_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	6.70E-01	1.33E+02	5.04E-07	0.58%	--	--	--
118-K-1_P2_Deep_4	Rad	Uranium-235	15117-96-1	pCi/g	4.10E-02	1.54E+01	2.66E-07	0.31%	--	--	--
118-K-1_P2_Deep_4	Rad	Uranium-238	U-238	pCi/g	7.13E-01	5.20E+01	1.37E-06	1.57%	--	--	--
Total Radiological Risk Estimate							**8.71E-05**	--	--	--	--
118-K-1_P2_Deep_5	Rad	Carbon-14	14762-75-5	pCi/g	2.69E+00	8.10E+01	3.33E-06	44.62%	--	--	--
118-K-1_P2_Deep_5	Rad	Cesium-137	10045-97-3	pCi/g	9.20E-02	4.40E+00	2.09E-06	28.05%	--	--	--
118-K-1_P2_Deep_5	Rad	Nickel-63	13981-37-8	pCi/g	1.21E+01	5.94E+02	2.04E-06	27.33%	--	--	--
Total Radiological Risk Estimate							**7.45E-06**	--	--	--	--
118-K-1_P2_Deep_6	Rad	Carbon-14	14762-75-5	pCi/g	1.68E+00	8.10E+01	2.07E-06	52.00%	--	--	--
118-K-1_P2_Deep_6	Rad	Cesium-137	10045-97-3	pCi/g	8.40E-02	4.40E+00	1.91E-06	48.00%	--	--	--
Total Radiological Risk Estimate							**3.98E-06**	--	--	--	--
118-K-1_P2_Deep_7	Rad	Americium-241	14596-10-2	pCi/g	1.79E+00	1.53E+02	1.17E-06	0.21%	--	--	--
118-K-1_P2_Deep_7	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	8.10E+01	1.46E-06	0.26%	--	--	--
118-K-1_P2_Deep_7	Rad	Cesium-137	10045-97-3	pCi/g	1.01E+01	4.40E+00	2.29E-04	41.01%	--	--	--
118-K-1_P2_Deep_7	Rad	Nickel-63	13981-37-8	pCi/g	3.37E+00	5.94E+02	5.67E-07	0.10%	--	--	--
118-K-1_P2_Deep_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E+00	2.03E+02	7.88E-07	0.14%	--	--	--
118-K-1_P2_Deep_7	Rad	Strontium-90	10098-97-2	pCi/g	7.34E+00	2.28E+00	3.22E-04	57.74%	--	--	--
118-K-1_P2_Deep_7	Rad	Tritium	10028-17-8	pCi/g	7.48E+00	6.24E+02	1.20E-06	0.22%	--	--	--
118-K-1_P2_Deep_7	Rad	Uranium-233/234	U-233/234	pCi/g	4.63E-01	1.33E+02	3.48E-07	0.06%	--	--	--
118-K-1_P2_Deep_7	Rad	Uranium-238	U-238	pCi/g	7.44E-01	5.20E+01	1.43E-06	0.26%	--	--	--
Total Radiological Risk Estimate							**5.58E-04**	--	--	--	--
118-K-1_P2_Deep_8	Rad	Americium-241	14596-10-2	pCi/g	2.83E-01	1.53E+02	1.85E-07	1.71%	--	--	--
118-K-1_P2_Deep_8	Rad	Carbon-14	14762-75-5	pCi/g	8.35E-01	8.10E+01	1.03E-06	9.54%	--	--	--
118-K-1_P2_Deep_8	Rad	Cesium-137	10045-97-3	pCi/g	2.93E-01	4.40E+00	6.66E-06	61.66%	--	--	--
118-K-1_P2_Deep_8	Rad	Tritium	10028-17-8	pCi/g	5.80E+00	6.24E+02	9.29E-07	8.60%	--	--	--
118-K-1_P2_Deep_8	Rad	Uranium-233/234	U-233/234	pCi/g	7.30E-01	1.33E+02	5.49E-07	5.08%	--	--	--
118-K-1_P2_Deep_8	Rad	Uranium-238	U-238	pCi/g	7.54E-01	5.20E+01	1.45E-06	13.42%	--	--	--
Total Radiological Risk Estimate							**1.08E-05**	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.93E-01	1.53E+02	6.49E-07	0.04%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Carbon-14	14762-75-5	pCi/g	2.26E+00	8.10E+01	2.79E-06	0.18%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	1.07E+01	4.40E+00	2.43E-04	15.45%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	2.32E+00	3.60E+00	6.44E-05	4.09%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	5.68E+01	5.94E+02	9.56E-06	0.61%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	5.30E-02	2.36E+02	2.25E-08	0.00%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.74E+00	2.03E+02	1.84E-06	0.12%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	2.85E+01	2.28E+00	1.25E-03	79.42%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	5.41E-01	1.33E+02	4.07E-07	0.03%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	5.73E-01	5.20E+01	1.10E-06	0.07%	--	--	--
Total Radiological Risk Estimate							**1.57E-03**	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Americium-241	14596-10-2	pCi/g	2.22E+00	1.53E+02	1.45E-06	0.08%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Carbon-14	14762-75-5	pCi/g	1.42E+01	8.10E+01	1.75E-05	0.94%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	4.43E+00	4.40E+00	1.01E-04	5.42%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Cobalt-60	10198-40-0	pCi/g	3.99E-01	3.10E+00	1.29E-05	0.69%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Europium-152	14683-23-9	pCi/g	3.66E+01	3.60E+00	1.02E-03	54.78%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Deep_Focused_2	Rad	Europium-154	15585-10-1	pCi/g	1.91E+00	4.50E+00	4.24E-05	2.29%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	1.36E+01	5.94E+02	2.29E-06	0.12%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-238	13981-16-3	pCi/g	3.20E-01	2.36E+02	1.36E-07	0.01%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E+00	2.03E+02	7.88E-07	0.04%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+01	2.28E+00	6.58E-04	35.45%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Tritium	10028-17-8	pCi/g	8.08E+00	6.24E+02	1.29E-06	0.07%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	6.48E-01	1.33E+02	4.87E-07	0.03%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	4.10E-02	1.54E+01	2.66E-07	0.01%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	6.06E-01	5.20E+01	1.17E-06	0.06%	--	--	--
Total Radiological Risk Estimate							**1.86E-03**	**--**	**--**	**--**	**--**
118-K-1_P2_Deep_Focused_7	Rad	Americium-241	14596-10-2	pCi/g	3.94E+00	1.53E+02	2.58E-06	0.19%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Cesium-137	10045-97-3	pCi/g	3.63E+01	4.40E+00	8.25E-04	60.41%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Cobalt-60	10198-40-0	pCi/g	1.97E-01	3.10E+00	6.35E-06	0.47%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Nickel-63	13981-37-8	pCi/g	8.40E+00	5.94E+02	1.41E-06	0.10%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-238	13981-16-3	pCi/g	3.84E-01	2.36E+02	1.63E-07	0.01%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.17E+00	2.03E+02	2.05E-06	0.15%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Strontium-90	10098-97-2	pCi/g	1.19E+01	2.28E+00	5.22E-04	38.22%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Tritium	10028-17-8	pCi/g	2.98E+01	6.24E+02	4.78E-06	0.35%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Uranium-233/234	U-233/234	pCi/g	4.22E-01	1.33E+02	3.17E-07	0.02%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Uranium-238	U-238	pCi/g	6.17E-01	5.20E+01	1.19E-06	0.09%	--	--	--
Total Radiological Risk Estimate							**1.37E-03**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.76E+06	--	--	--	8.00E+07	7.20E-02	6.97%
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.42E+03	6.67E+02	3.63E-06	100.00%	2.40E+04	1.01E-01	9.76%
118-K-1_P2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.60E+07	3.47E-03	0.34%
118-K-1_P2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.51E+02	--	--	--	1.60E+05	1.57E-03	0.15%
118-K-1_P2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.46E+03	--	--	--	1.60E+07	9.11E-05	0.01%
118-K-1_P2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	7.65E+01	--	--	--	8.00E+04	9.56E-04	0.09%
118-K-1_P2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6.29E+03	--	--	--	1.20E+08	5.24E-05	0.01%
118-K-1_P2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.41E+03	--	--	--	2.40E+04	3.09E-01	29.85%
118-K-1_P2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.38E+04	--	--	--	3.20E+06	4.31E-03	0.42%
118-K-1_P2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	--	--	--	5.60E+07	3.70E-01	35.76%
118-K-1_P2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	2.95E+05	--	--	--	1.12E+07	2.63E-02	2.55%
118-K-1_P2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.23E+02	--	--	--	4.00E+05	1.06E-03	0.10%
118-K-1_P2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	7.14E+03	--	--	--	1.60E+06	4.46E-03	0.43%
118-K-1_P2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	4.00E+05	1.38E-01	13.39%
118-K-1_P2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.43E+04	--	--	--	2.40E+07	1.85E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.63E-06**	**--**	**--**	**1.03E+00**	**--**
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	4.52E+00	8.10E+01	5.58E-06	67.41%	--	--	--
118-K-1_P2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	7.30E-02	4.40E+00	1.66E-06	20.04%	--	--	--
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	6.48E+00	6.24E+02	1.04E-06	12.55%	--	--	--
Total Radiological Risk Estimate							**8.28E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.19E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_10	non-Rad	Aluminum	7429-90-5	ug/kg	9.80E+06	--	--	--	8.00E+07	1.22E-01	8.10%
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	ug/kg	3.37E+03	6.67E+02	5.05E-06	100.00%	2.40E+04	1.40E-01	9.29%
118-K-1_P2_Shallow_10	non-Rad	Barium	7440-39-3	ug/kg	7.66E+04	--	--	--	1.60E+07	4.78E-03	0.32%
118-K-1_P2_Shallow_10	non-Rad	Beryllium	7440-41-7	ug/kg	4.01E+02	--	--	--	1.60E+05	2.50E-03	0.17%
118-K-1_P2_Shallow_10	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	1.60E+07	1.04E-04	0.01%
118-K-1_P2_Shallow_10	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	--	--	--	8.00E+04	1.51E-03	0.10%
118-K-1_P2_Shallow_10	non-Rad	Chromium	7440-47-3	ug/kg	1.16E+04	--	--	--	1.20E+08	9.67E-05	0.01%
118-K-1_P2_Shallow_10	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	--	--	--	2.40E+04	4.00E-01	26.45%
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	ug/kg	2.26E+04	--	--	--	3.20E+06	7.08E-03	0.47%
118-K-1_P2_Shallow_10	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	--	--	--	5.60E+07	5.63E-01	37.23%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_10	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.12E+07	4.04E-02	2.67%
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	ug/kg	1.59E+03	--	--	--	4.00E+05	3.98E-03	0.26%
118-K-1_P2_Shallow_10	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	--	--	--	1.60E+06	6.75E-03	0.45%
118-K-1_P2_Shallow_10	non-Rad	Nitrate	14797-55-8	ug/kg	4.45E+04	--	--	--	5.68E+08	7.84E-05	0.01%
118-K-1_P2_Shallow_10	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.17E+03	--	--	--	2.40E+05	9.05E-03	0.60%
118-K-1_P2_Shallow_10	non-Rad	Vanadium	7440-62-2	ug/kg	8.31E+04	--	--	--	4.00E+05	2.08E-01	13.73%
118-K-1_P2_Shallow_10	non-Rad	Zinc	7440-66-6	ug/kg	5.63E+04	--	--	--	2.40E+07	2.35E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.05E-06**	**--**	**--**	**1.51E+00**	**--**
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	pCi/g	8.84E-01	8.10E+01	1.09E-06	19.80%	--	--	--
118-K-1_P2_Shallow_10	Rad	Cesium-137	10045-97-3	pCi/g	1.09E-01	4.40E+00	2.48E-06	44.95%	--	--	--
118-K-1_P2_Shallow_10	Rad	Uranium-233/234	U-233/234	pCi/g	7.18E-01	1.33E+02	5.40E-07	9.79%	--	--	--
118-K-1_P2_Shallow_10	Rad	Uranium-238	U-238	pCi/g	7.29E-01	5.20E+01	1.40E-06	25.45%	--	--	--
Total Radiological Risk Estimate							**5.51E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.06E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11A	non-Rad	Aluminum	7429-90-5	ug/kg	7.97E+06	--	--	--	8.00E+07	9.96E-02	7.87%
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	ug/kg	2.97E+03	6.67E+02	4.46E-06	100.00%	2.40E+04	1.24E-01	9.79%
118-K-1_P2_Shallow_11A	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.60E+07	4.71E-03	0.37%
118-K-1_P2_Shallow_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	--	--	--	1.60E+05	1.94E-03	0.15%
118-K-1_P2_Shallow_11A	non-Rad	Boron	7440-42-8	ug/kg	1.85E+03	--	--	--	1.60E+07	1.15E-04	0.01%
118-K-1_P2_Shallow_11A	non-Rad	Cadmium	7440-43-9	ug/kg	1.24E+02	--	--	--	8.00E+04	1.55E-03	0.12%
118-K-1_P2_Shallow_11A	non-Rad	Chromium	7440-47-3	ug/kg	9.10E+03	--	--	--	1.20E+08	7.59E-05	0.01%
118-K-1_P2_Shallow_11A	non-Rad	Cobalt	7440-48-4	ug/kg	8.04E+03	--	--	--	2.40E+04	3.35E-01	26.46%
118-K-1_P2_Shallow_11A	non-Rad	Copper	7440-50-8	ug/kg	1.80E+04	--	--	--	3.20E+06	5.63E-03	0.44%
118-K-1_P2_Shallow_11A	non-Rad	Iron	7439-89-6	ug/kg	2.64E+07	--	--	--	5.60E+07	4.71E-01	37.24%
118-K-1_P2_Shallow_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.12E+07	3.13E-02	2.48%
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.00E+05	1.63E-03	0.13%
118-K-1_P2_Shallow_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	--	--	--	1.60E+06	6.66E-03	0.53%
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+05	--	--	--	5.68E+08	2.13E-04	0.02%
118-K-1_P2_Shallow_11A	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	4.00E+05	1.80E-01	14.20%
118-K-1_P2_Shallow_11A	non-Rad	Zinc	7440-66-6	ug/kg	5.60E+04	--	--	--	2.40E+07	2.33E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.46E-06**	**--**	**--**	**1.27E+00**	**--**
118-K-1_P2_Shallow_11A	Rad	Cesium-137	10045-97-3	pCi/g	1.35E-01	4.40E+00	3.07E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**3.07E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.53E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11B	non-Rad	Aluminum	7429-90-5	ug/kg	1.06E+07	--	--	--	8.00E+07	1.33E-01	10.31%
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.23E+03	6.67E+02	4.84E-06	100.00%	2.40E+04	1.35E-01	10.47%
118-K-1_P2_Shallow_11B	non-Rad	Barium	7440-39-3	ug/kg	8.71E+04	--	--	--	1.60E+07	5.44E-03	0.42%
118-K-1_P2_Shallow_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.83E+02	--	--	--	1.60E+05	2.40E-03	0.19%
118-K-1_P2_Shallow_11B	non-Rad	Boron	7440-42-8	ug/kg	2.29E+03	--	--	--	1.60E+07	1.43E-04	0.01%
118-K-1_P2_Shallow_11B	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	--	--	--	8.00E+04	1.70E-03	0.13%
118-K-1_P2_Shallow_11B	non-Rad	Chromium	7440-47-3	ug/kg	1.27E+04	--	--	--	1.20E+08	1.06E-04	0.01%
118-K-1_P2_Shallow_11B	non-Rad	Cobalt	7440-48-4	ug/kg	7.86E+03	--	--	--	2.40E+04	3.28E-01	25.48%
118-K-1_P2_Shallow_11B	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.20E+06	5.53E-03	0.43%
118-K-1_P2_Shallow_11B	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	--	--	--	5.60E+07	4.54E-01	35.29%
118-K-1_P2_Shallow_11B	non-Rad	Manganese	7439-96-5	ug/kg	4.04E+05	--	--	--	1.12E+07	3.61E-02	2.81%
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	6.78E+02	--	--	--	4.00E+05	1.70E-03	0.13%
118-K-1_P2_Shallow_11B	non-Rad	Nickel	7440-02-0	ug/kg	1.20E+04	--	--	--	1.60E+06	7.50E-03	0.58%
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	ug/kg	3.91E+05	--	--	--	5.68E+08	6.88E-04	0.05%
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.40E+07	4.17E-05	0.00%
118-K-1_P2_Shallow_11B	non-Rad	Vanadium	7440-62-2	ug/kg	6.94E+04	--	--	--	4.00E+05	1.74E-01	13.50%
118-K-1_P2_Shallow_11B	non-Rad	Zinc	7440-66-6	ug/kg	5.79E+04	--	--	--	2.40E+07	2.41E-03	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.84E-06**	**--**	**--**	**1.29E+00**	**--**
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	pCi/g	8.77E-01	8.10E+01	1.08E-06	32.41%	--	--	--
118-K-1_P2_Shallow_11B	Rad	Cesium-137	10045-97-3	pCi/g	9.94E-02	4.40E+00	2.26E-06	67.59%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate							**3.34E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**8.18E-06**	--	--	--	--
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	8.00E+07	1.58E-01	11.95%
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	6.67E+02	5.48E-06	100.00%	2.40E+04	1.52E-01	11.55%
118-K-1_P2_Shallow_11C	non-Rad	Barium	7440-39-3	ug/kg	9.64E+04	--	--	--	1.60E+07	6.03E-03	0.46%
118-K-1_P2_Shallow_11C	non-Rad	Beryllium	7440-41-7	ug/kg	4.33E+02	--	--	--	1.60E+05	2.71E-03	0.21%
118-K-1_P2_Shallow_11C	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	1.60E+07	1.51E-04	0.01%
118-K-1_P2_Shallow_11C	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	--	--	--	8.00E+04	1.83E-03	0.14%
118-K-1_P2_Shallow_11C	non-Rad	Chromium	7440-47-3	ug/kg	1.49E+04	--	--	--	1.20E+08	1.24E-04	0.01%
118-K-1_P2_Shallow_11C	non-Rad	Cobalt	7440-48-4	ug/kg	7.71E+03	--	--	--	2.40E+04	3.21E-01	24.38%
118-K-1_P2_Shallow_11C	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.20E+06	6.08E-03	0.46%
118-K-1_P2_Shallow_11C	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	--	--	--	5.60E+07	4.52E-01	34.29%
118-K-1_P2_Shallow_11C	non-Rad	Manganese	7439-96-5	ug/kg	4.41E+05	--	--	--	1.12E+07	3.94E-02	2.99%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	2.40E+04	1.62E-03	0.12%
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	ug/kg	5.17E+02	--	--	--	4.00E+05	1.29E-03	0.10%
118-K-1_P2_Shallow_11C	non-Rad	Nickel	7440-02-0	ug/kg	1.44E+04	--	--	--	1.60E+06	9.00E-03	0.68%
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	ug/kg	1.69E+05	--	--	--	5.68E+08	2.98E-04	0.02%
118-K-1_P2_Shallow_11C	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	4.00E+05	1.64E-01	12.46%
118-K-1_P2_Shallow_11C	non-Rad	Zinc	7440-66-6	ug/kg	4.96E+04	--	--	--	2.40E+07	2.07E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.48E-06**	--	--	**1.32E+00**	--
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	pCi/g	8.70E-01	8.10E+01	1.07E-06	33.22%	--	--	--
118-K-1_P2_Shallow_11C	Rad	Cesium-137	10045-97-3	pCi/g	9.50E-02	4.40E+00	2.16E-06	66.78%	--	--	--
Total Radiological Risk Estimate							**3.23E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**8.71E-06**	--	--	--	--
118-K-1_P2_Shallow_11D	non-Rad	Aluminum	7429-90-5	ug/kg	1.17E+07	--	--	--	8.00E+07	1.46E-01	11.93%
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	ug/kg	3.12E+03	6.67E+02	4.68E-06	100.00%	2.40E+04	1.30E-01	10.60%
118-K-1_P2_Shallow_11D	non-Rad	Barium	7440-39-3	ug/kg	8.91E+04	--	--	--	1.60E+07	5.57E-03	0.45%
118-K-1_P2_Shallow_11D	non-Rad	Beryllium	7440-41-7	ug/kg	3.95E+02	--	--	--	1.60E+05	2.47E-03	0.20%
118-K-1_P2_Shallow_11D	non-Rad	Boron	7440-42-8	ug/kg	2.32E+03	--	--	--	1.60E+07	1.45E-04	0.01%
118-K-1_P2_Shallow_11D	non-Rad	Cadmium	7440-43-9	ug/kg	1.62E+02	--	--	--	8.00E+04	2.02E-03	0.17%
118-K-1_P2_Shallow_11D	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.20E+08	1.05E-04	0.01%
118-K-1_P2_Shallow_11D	non-Rad	Cobalt	7440-48-4	ug/kg	7.28E+03	--	--	--	2.40E+04	3.03E-01	24.73%
118-K-1_P2_Shallow_11D	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.20E+06	4.67E-03	0.38%
118-K-1_P2_Shallow_11D	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	--	--	--	5.60E+07	4.27E-01	34.81%
118-K-1_P2_Shallow_11D	non-Rad	Manganese	7439-96-5	ug/kg	4.09E+05	--	--	--	1.12E+07	3.65E-02	2.98%
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.00E+05	1.41E-03	0.11%
118-K-1_P2_Shallow_11D	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	--	--	--	1.60E+06	7.25E-03	0.59%
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	ug/kg	1.48E+05	--	--	--	5.68E+08	2.61E-04	0.02%
118-K-1_P2_Shallow_11D	non-Rad	Vanadium	7440-62-2	ug/kg	6.29E+04	--	--	--	4.00E+05	1.57E-01	12.83%
118-K-1_P2_Shallow_11D	non-Rad	Zinc	7440-66-6	ug/kg	4.97E+04	--	--	--	2.40E+07	2.07E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.68E-06**	--	--	**1.23E+00**	--
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	pCi/g	1.15E+00	8.10E+01	1.42E-06	34.24%	--	--	--
118-K-1_P2_Shallow_11D	Rad	Cesium-137	10045-97-3	pCi/g	1.20E-01	4.40E+00	2.73E-06	65.76%	--	--	--
Total Radiological Risk Estimate							**4.15E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**8.83E-06**	--	--	--	--
118-K-1_P2_Shallow_11E	non-Rad	Aluminum	7429-90-5	ug/kg	1.12E+07	--	--	--	8.00E+07	1.39E-01	10.41%
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	ug/kg	3.77E+03	6.67E+02	5.66E-06	100.00%	2.40E+04	1.57E-01	11.74%
118-K-1_P2_Shallow_11E	non-Rad	Barium	7440-39-3	ug/kg	9.49E+04	--	--	--	1.60E+07	5.93E-03	0.44%
118-K-1_P2_Shallow_11E	non-Rad	Beryllium	7440-41-7	ug/kg	3.79E+02	--	--	--	1.60E+05	2.37E-03	0.18%
118-K-1_P2_Shallow_11E	non-Rad	Boron	7440-42-8	ug/kg	2.31E+03	--	--	--	1.60E+07	1.45E-04	0.01%
118-K-1_P2_Shallow_11E	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	--	--	--	8.00E+04	1.83E-03	0.14%
118-K-1_P2_Shallow_11E	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.20E+08	1.05E-04	0.01%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11E	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	--	--	--	2.40E+04	3.26E-01	24.36%
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.20E+06	6.98E-03	0.52%
118-K-1_P2_Shallow_11E	non-Rad	Iron	7439-89-6	ug/kg	2.68E+07	--	--	--	5.60E+07	4.78E-01	35.71%
118-K-1_P2_Shallow_11E	non-Rad	Manganese	7439-96-5	ug/kg	4.32E+05	--	--	--	1.12E+07	3.86E-02	2.88%
118-K-1_P2_Shallow_11E	non-Rad	Mercury	7439-97-6	ug/kg	9.26E+00	--	--	--	2.40E+04	3.86E-04	0.03%
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.00E+05	1.41E-03	0.11%
118-K-1_P2_Shallow_11E	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	--	--	--	1.60E+06	6.94E-03	0.52%
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	ug/kg	5.60E+04	--	--	--	5.68E+08	9.86E-05	0.01%
118-K-1_P2_Shallow_11E	non-Rad	Vanadium	7440-62-2	ug/kg	6.85E+04	--	--	--	4.00E+05	1.71E-01	12.79%
118-K-1_P2_Shallow_11E	non-Rad	Zinc	7440-66-6	ug/kg	5.43E+04	--	--	--	2.40E+07	2.26E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.66E-06**	**--**	**--**	**1.34E+00**	**--**
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	pCi/g	2.06E+00	8.10E+01	2.54E-06	44.78%	--	--	--
118-K-1_P2_Shallow_11E	Rad	Cesium-137	10045-97-3	pCi/g	1.38E-01	4.40E+00	3.14E-06	55.22%	--	--	--
Total Radiological Risk Estimate							**5.68E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.13E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11F	non-Rad	Aluminum	7429-90-5	ug/kg	9.42E+06	--	--	--	8.00E+07	1.18E-01	8.93%
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	6.67E+02	5.07E-06	100.00%	2.40E+04	1.41E-01	10.68%
118-K-1_P2_Shallow_11F	non-Rad	Barium	7440-39-3	ug/kg	8.34E+04	--	--	--	1.60E+07	5.21E-03	0.40%
118-K-1_P2_Shallow_11F	non-Rad	Beryllium	7440-41-7	ug/kg	3.16E+02	--	--	--	1.60E+05	1.98E-03	0.15%
118-K-1_P2_Shallow_11F	non-Rad	Boron	7440-42-8	ug/kg	2.21E+03	--	--	--	1.60E+07	1.38E-04	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Cadmium	7440-43-9	ug/kg	1.49E+02	--	--	--	8.00E+04	1.86E-03	0.14%
118-K-1_P2_Shallow_11F	non-Rad	Chromium	7440-47-3	ug/kg	1.12E+04	--	--	--	1.20E+08	9.33E-05	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Cobalt	7440-48-4	ug/kg	8.06E+03	--	--	--	2.40E+04	3.36E-01	25.46%
118-K-1_P2_Shallow_11F	non-Rad	Copper	7440-50-8	ug/kg	1.63E+04	--	--	--	3.20E+06	5.09E-03	0.39%
118-K-1_P2_Shallow_11F	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	--	--	--	5.60E+07	4.70E-01	35.67%
118-K-1_P2_Shallow_11F	non-Rad	Manganese	7439-96-5	ug/kg	3.74E+05	--	--	--	1.12E+07	3.34E-02	2.54%
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	2.40E+04	9.08E-04	0.07%
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	ug/kg	8.84E+02	--	--	--	4.00E+05	2.21E-03	0.17%
118-K-1_P2_Shallow_11F	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	--	--	--	1.60E+06	7.06E-03	0.54%
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	ug/kg	6.51E+04	--	--	--	5.68E+08	1.15E-04	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Vanadium	7440-62-2	ug/kg	7.75E+04	--	--	--	4.00E+05	1.94E-01	14.69%
118-K-1_P2_Shallow_11F	non-Rad	Zinc	7440-66-6	ug/kg	5.17E+04	--	--	--	2.40E+07	2.15E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.07E-06**	**--**	**--**	**1.32E+00**	**--**
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	pCi/g	1.31E+00	8.10E+01	1.62E-06	22.36%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Cesium-137	10045-97-3	pCi/g	2.21E-01	4.40E+00	5.02E-06	69.46%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	pCi/g	3.69E+00	6.24E+02	5.91E-07	8.18%	--	--	--
Total Radiological Risk Estimate							**7.23E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.23E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11G	non-Rad	Aluminum	7429-90-5	ug/kg	7.17E+06	--	--	--	8.00E+07	8.96E-02	6.77%
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	ug/kg	2.69E+03	6.67E+02	4.03E-06	100.00%	2.40E+04	1.12E-01	8.46%
118-K-1_P2_Shallow_11G	non-Rad	Barium	7440-39-3	ug/kg	6.03E+04	--	--	--	1.60E+07	3.77E-03	0.28%
118-K-1_P2_Shallow_11G	non-Rad	Beryllium	7440-41-7	ug/kg	2.90E+02	--	--	--	1.60E+05	1.81E-03	0.14%
118-K-1_P2_Shallow_11G	non-Rad	Boron	7440-42-8	ug/kg	1.34E+03	--	--	--	1.60E+07	8.37E-05	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Cadmium	7440-43-9	ug/kg	1.09E+02	--	--	--	8.00E+04	1.36E-03	0.10%
118-K-1_P2_Shallow_11G	non-Rad	Chromium	7440-47-3	ug/kg	8.12E+03	--	--	--	1.20E+08	6.76E-05	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Cobalt	7440-48-4	ug/kg	8.36E+03	--	--	--	2.40E+04	3.48E-01	26.31%
118-K-1_P2_Shallow_11G	non-Rad	Copper	7440-50-8	ug/kg	1.68E+04	--	--	--	3.20E+06	5.24E-03	0.40%
118-K-1_P2_Shallow_11G	non-Rad	Iron	7439-89-6	ug/kg	2.83E+07	--	--	--	5.60E+07	5.05E-01	38.12%
118-K-1_P2_Shallow_11G	non-Rad	Manganese	7439-96-5	ug/kg	3.78E+05	--	--	--	1.12E+07	3.37E-02	2.55%
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	ug/kg	5.82E+02	--	--	--	4.00E+05	1.46E-03	0.11%
118-K-1_P2_Shallow_11G	non-Rad	Nickel	7440-02-0	ug/kg	9.76E+03	--	--	--	1.60E+06	6.10E-03	0.46%
118-K-1_P2_Shallow_11G	non-Rad	Nitrate	14797-55-8	ug/kg	4.28E+04	--	--	--	5.68E+08	7.54E-05	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	4.00E+05	2.13E-01	16.12%
118-K-1_P2_Shallow_11G	non-Rad	Zinc	7440-66-6	ug/kg	5.51E+04	--	--	--	2.40E+07	2.30E-03	0.17%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.03E-06**	**--**	**--**	**1.32E+00**	**--**
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	pCi/g	1.88E+00	8.10E+01	2.32E-06	38.52%	--	--	--
118-K-1_P2_Shallow_11G	Rad	Cesium-137	10045-97-3	pCi/g	1.63E-01	4.40E+00	3.70E-06	61.48%	--	--	--
Total Radiological Risk Estimate							**6.03E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.01E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11H	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	--	--	--	8.00E+07	8.14E-02	6.44%
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	6.67E+02	4.16E-06	100.00%	2.40E+04	1.16E-01	9.14%
118-K-1_P2_Shallow_11H	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.60E+07	3.47E-03	0.27%
118-K-1_P2_Shallow_11H	non-Rad	Beryllium	7440-41-7	ug/kg	2.56E+02	--	--	--	1.60E+05	1.60E-03	0.13%
118-K-1_P2_Shallow_11H	non-Rad	Boron	7440-42-8	ug/kg	1.26E+03	--	--	--	1.60E+07	7.86E-05	0.01%
118-K-1_P2_Shallow_11H	non-Rad	Cadmium	7440-43-9	ug/kg	1.03E+02	--	--	--	8.00E+04	1.29E-03	0.10%
118-K-1_P2_Shallow_11H	non-Rad	Chromium	7440-47-3	ug/kg	6.94E+03	--	--	--	1.20E+08	5.78E-05	0.00%
118-K-1_P2_Shallow_11H	non-Rad	Cobalt	7440-48-4	ug/kg	7.81E+03	--	--	--	2.40E+04	3.25E-01	25.74%
118-K-1_P2_Shallow_11H	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.20E+06	5.16E-03	0.41%
118-K-1_P2_Shallow_11H	non-Rad	Iron	7439-89-6	ug/kg	2.71E+07	--	--	--	5.60E+07	4.84E-01	38.28%
118-K-1_P2_Shallow_11H	non-Rad	Manganese	7439-96-5	ug/kg	3.44E+05	--	--	--	1.12E+07	3.07E-02	2.43%
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	ug/kg	4.88E+02	--	--	--	4.00E+05	1.22E-03	0.10%
118-K-1_P2_Shallow_11H	non-Rad	Nickel	7440-02-0	ug/kg	9.39E+03	--	--	--	1.60E+06	5.87E-03	0.46%
118-K-1_P2_Shallow_11H	non-Rad	Nitrate	14797-55-8	ug/kg	2.10E+04	--	--	--	5.68E+08	3.70E-05	0.00%
118-K-1_P2_Shallow_11H	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	4.00E+05	2.06E-01	16.30%
118-K-1_P2_Shallow_11H	non-Rad	Zinc	7440-66-6	ug/kg	5.59E+04	--	--	--	2.40E+07	2.33E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.16E-06**	**--**	**--**	**1.26E+00**	**--**
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	pCi/g	1.61E+00	8.10E+01	1.99E-06	12.28%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Cesium-137	10045-97-3	pCi/g	2.74E-01	4.40E+00	6.23E-06	38.49%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	pCi/g	2.87E-01	3.60E+00	7.97E-06	49.23%	--	--	--
Total Radiological Risk Estimate							**1.62E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.03E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.08E+06	--	--	--	8.00E+07	8.85E-02	8.68%
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	6.67E+02	4.30E-06	100.00%	2.40E+04	1.20E-01	11.72%
118-K-1_P2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.69E+04	--	--	--	1.60E+07	3.55E-03	0.35%
118-K-1_P2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	--	--	--	1.60E+05	1.78E-03	0.17%
118-K-1_P2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	1.60E+07	8.69E-05	0.01%
118-K-1_P2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.40E+01	--	--	--	8.00E+04	1.05E-03	0.10%
118-K-1_P2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8.52E+03	--	--	--	1.20E+08	7.10E-05	0.01%
118-K-1_P2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6.39E+03	--	--	--	2.40E+04	2.66E-01	26.08%
118-K-1_P2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.37E+04	--	--	--	3.20E+06	4.28E-03	0.42%
118-K-1_P2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	--	--	--	5.60E+07	3.55E-01	34.78%
118-K-1_P2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.09E+05	--	--	--	1.12E+07	2.76E-02	2.71%
118-K-1_P2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.75E+02	--	--	--	4.00E+05	9.37E-04	0.09%
118-K-1_P2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.84E+03	--	--	--	1.60E+06	5.53E-03	0.54%
118-K-1_P2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.96E+03	--	--	--	2.40E+05	8.15E-03	0.80%
118-K-1_P2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.46E+04	--	--	--	4.00E+05	1.37E-01	13.38%
118-K-1_P2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.00E+04	--	--	--	2.40E+07	1.67E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.30E-06**	**--**	**--**	**1.02E+00**	**--**
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.00E+00	8.10E+01	1.23E-06	10.55%	--	--	--
118-K-1_P2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	9.70E-02	4.40E+00	2.20E-06	18.84%	--	--	--
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	2.28E-01	3.60E+00	6.33E-06	54.11%	--	--	--
118-K-1_P2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	8.87E-01	1.33E+02	6.67E-07	5.70%	--	--	--
118-K-1_P2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	6.57E-01	5.20E+01	1.26E-06	10.80%	--	--	--
Total Radiological Risk Estimate							**1.17E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.60E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.96E+06	--	--	--	8.00E+07	9.95E-02	9.27%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	6.67E+02	4.31E-06	100.00%	2.40E+04	1.20E-01	11.16%
118-K-1_P2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.60E+07	3.91E-03	0.36%
118-K-1_P2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.05E+02	--	--	--	1.60E+05	1.91E-03	0.18%
118-K-1_P2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	1.60E+07	1.04E-04	0.01%
118-K-1_P2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	8.53E+01	--	--	--	8.00E+04	1.07E-03	0.10%
118-K-1_P2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9.18E+03	--	--	--	1.20E+08	7.65E-05	0.01%
118-K-1_P2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6.61E+03	--	--	--	2.40E+04	2.75E-01	25.65%
118-K-1_P2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.20E+06	4.66E-03	0.43%
118-K-1_P2_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	--	--	--	5.60E+07	3.77E-01	35.10%
118-K-1_P2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.12E+07	2.82E-02	2.63%
118-K-1_P2_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.44E+02	--	--	--	4.00E+05	1.11E-03	0.10%
118-K-1_P2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	9.29E+03	--	--	--	1.60E+06	5.81E-03	0.54%
118-K-1_P2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.25E+03	--	--	--	2.40E+05	9.37E-03	0.87%
118-K-1_P2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.75E+04	--	--	--	4.00E+05	1.44E-01	13.40%
118-K-1_P2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	4.34E+04	--	--	--	2.40E+07	1.81E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.31E-06**	**--**	**--**	**1.07E+00**	**--**
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	8.10E+01	1.46E-06	42.68%	--	--	--
118-K-1_P2_Shallow_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.40E-02	2.03E+02	6.90E-09	0.20%	--	--	--
118-K-1_P2_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	6.61E-01	1.33E+02	4.97E-07	14.55%	--	--	--
118-K-1_P2_Shallow_3	Rad	Uranium-238	U-238	pCi/g	7.56E-01	5.20E+01	1.45E-06	42.57%	--	--	--
Total Radiological Risk Estimate							**3.41E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.73E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	6.79E+06	--	--	--	8.00E+07	8.49E-02	7.52%
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	6.67E+02	4.75E-06	100.00%	2.40E+04	1.32E-01	11.69%
118-K-1_P2_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	5.30E+04	--	--	--	1.60E+07	3.31E-03	0.29%
118-K-1_P2_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	--	--	--	1.60E+05	1.73E-03	0.15%
118-K-1_P2_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	1.60E+07	6.38E-05	0.01%
118-K-1_P2_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.19E+01	--	--	--	8.00E+04	6.49E-04	0.06%
118-K-1_P2_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	6.92E+03	--	--	--	1.20E+08	5.77E-05	0.01%
118-K-1_P2_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.32E+03	--	--	--	2.40E+04	3.05E-01	27.02%
118-K-1_P2_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	1.41E+04	--	--	--	3.20E+06	4.41E-03	0.39%
118-K-1_P2_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	--	--	--	5.60E+07	3.93E-01	34.82%
118-K-1_P2_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.12E+07	2.60E-02	2.30%
118-K-1_P2_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	3.16E+02	--	--	--	4.00E+05	7.90E-04	0.07%
118-K-1_P2_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	7.60E+03	--	--	--	1.60E+06	4.75E-03	0.42%
118-K-1_P2_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.79E+03	--	--	--	2.40E+05	7.47E-03	0.66%
118-K-1_P2_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.53E+04	--	--	--	4.00E+05	1.63E-01	14.45%
118-K-1_P2_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	4.19E+04	--	--	--	2.40E+07	1.75E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.75E-06**	**--**	**--**	**1.13E+00**	**--**
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	pCi/g	8.58E-01	8.10E+01	1.06E-06	8.92%	--	--	--
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	pCi/g	2.72E-01	3.10E+00	8.77E-06	73.92%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-233/234	U-233/234	pCi/g	6.41E-01	1.33E+02	4.82E-07	4.06%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-235	15117-96-1	pCi/g	6.10E-02	1.54E+01	3.96E-07	3.34%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-238	U-238	pCi/g	6.02E-01	5.20E+01	1.16E-06	9.75%	--	--	--
Total Radiological Risk Estimate							**1.19E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.66E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	8.45E+06	--	--	--	8.00E+07	1.06E-01	7.64%
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	6.67E+02	4.39E-06	100.00%	2.40E+04	1.22E-01	8.83%
118-K-1_P2_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.30E+04	--	--	--	1.60E+07	4.57E-03	0.33%
118-K-1_P2_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	--	--	--	1.60E+05	2.16E-03	0.16%
118-K-1_P2_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.61E+03	--	--	--	1.60E+07	1.01E-04	0.01%
118-K-1_P2_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	9.31E+01	--	--	--	8.00E+04	1.16E-03	0.08%
118-K-1_P2_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	7.59E+03	--	--	--	1.20E+08	6.33E-05	0.00%
118-K-1_P2_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.49E+03	--	--	--	2.40E+04	3.54E-01	25.58%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.20E+06	6.03E-03	0.44%
118-K-1_P2_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	3.01E+07	--	--	--	5.60E+07	5.38E-01	38.87%
118-K-1_P2_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	3.96E+05	--	--	--	1.12E+07	3.54E-02	2.56%
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	2.40E+04	2.41E-03	0.17%
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.00E+05	1.38E-03	0.10%
118-K-1_P2_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	8.47E+03	--	--	--	1.60E+06	5.29E-03	0.38%
118-K-1_P2_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	2.84E+04	--	--	--	5.68E+08	5.00E-05	0.00%
118-K-1_P2_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	8.12E+04	--	--	--	4.00E+05	2.03E-01	14.68%
118-K-1_P2_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	5.17E+04	--	--	--	2.40E+07	2.15E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.39E-06**	**--**	**--**	**1.38E+00**	**--**
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	pCi/g	7.93E-01	8.10E+01	9.79E-07	6.49%	--	--	--
118-K-1_P2_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.28E-01	4.40E+00	5.18E-06	34.37%	--	--	--
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	pCi/g	3.21E-01	3.60E+00	8.92E-06	59.14%	--	--	--
Total Radiological Risk Estimate							**1.51E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.95E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_6	non-Rad	Aluminum	7429-90-5	ug/kg	7.45E+06	--	--	--	8.00E+07	9.31E-02	6.97%
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.54E+03	6.67E+02	3.81E-06	100.00%	2.40E+04	1.06E-01	7.92%
118-K-1_P2_Shallow_6	non-Rad	Barium	7440-39-3	ug/kg	1.14E+05	--	--	--	1.60E+07	7.13E-03	0.53%
118-K-1_P2_Shallow_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	--	--	--	1.60E+05	2.16E-03	0.16%
118-K-1_P2_Shallow_6	non-Rad	Boron	7440-42-8	ug/kg	9.57E+02	--	--	--	1.60E+07	5.98E-05	0.00%
118-K-1_P2_Shallow_6	non-Rad	Cadmium	7440-43-9	ug/kg	9.10E+01	--	--	--	8.00E+04	1.14E-03	0.09%
118-K-1_P2_Shallow_6	non-Rad	Chromium	7440-47-3	ug/kg	6.25E+03	--	--	--	1.20E+08	5.21E-05	0.00%
118-K-1_P2_Shallow_6	non-Rad	Cobalt	7440-48-4	ug/kg	8.46E+03	--	--	--	2.40E+04	3.52E-01	26.37%
118-K-1_P2_Shallow_6	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.20E+06	5.76E-03	0.43%
118-K-1_P2_Shallow_6	non-Rad	Iron	7439-89-6	ug/kg	2.95E+07	--	--	--	5.60E+07	5.27E-01	39.42%
118-K-1_P2_Shallow_6	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.12E+07	3.50E-02	2.62%
118-K-1_P2_Shallow_6	non-Rad	Molybdenum	7439-98-7	ug/kg	3.90E+02	--	--	--	4.00E+05	9.75E-04	0.07%
118-K-1_P2_Shallow_6	non-Rad	Nickel	7440-02-0	ug/kg	8.81E+03	--	--	--	1.60E+06	5.51E-03	0.41%
118-K-1_P2_Shallow_6	non-Rad	Vanadium	7440-62-2	ug/kg	7.92E+04	--	--	--	4.00E+05	1.98E-01	14.82%
118-K-1_P2_Shallow_6	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.40E+07	2.34E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.81E-06**	**--**	**--**	**1.34E+00**	**--**
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	pCi/g	8.12E-01	8.10E+01	1.00E-06	9.83%	--	--	--
118-K-1_P2_Shallow_6	Rad	Cesium-137	10045-97-3	pCi/g	1.04E-01	4.40E+00	2.36E-06	23.19%	--	--	--
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	pCi/g	1.98E-01	3.60E+00	5.50E-06	53.95%	--	--	--
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	8.29E+00	6.24E+02	1.33E-06	13.03%	--	--	--
Total Radiological Risk Estimate							**1.02E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.40E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_7	non-Rad	Aluminum	7429-90-5	ug/kg	9.46E+06	--	--	--	8.00E+07	1.18E-01	5.98%
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	ug/kg	1.63E+04	--	--	--	3.20E+04	5.09E-01	25.78%
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3.55E+03	6.67E+02	5.32E-06	100.00%	2.40E+04	1.48E-01	7.48%
118-K-1_P2_Shallow_7	non-Rad	Barium	7440-39-3	ug/kg	7.37E+04	--	--	--	1.60E+07	4.61E-03	0.23%
118-K-1_P2_Shallow_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.65E+02	--	--	--	1.60E+05	2.28E-03	0.12%
118-K-1_P2_Shallow_7	non-Rad	Boron	7440-42-8	ug/kg	1.84E+03	--	--	--	1.60E+07	1.15E-04	0.01%
118-K-1_P2_Shallow_7	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.20E+08	8.58E-05	0.00%
118-K-1_P2_Shallow_7	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	--	--	--	2.40E+04	4.03E-01	20.39%
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	ug/kg	2.25E+04	--	--	--	3.20E+06	7.03E-03	0.36%
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	7.61E+01	--	--	--	8.00E+06	9.51E-06	0.00%
118-K-1_P2_Shallow_7	non-Rad	Iron	7439-89-6	ug/kg	2.91E+07	--	--	--	5.60E+07	5.20E-01	26.30%
118-K-1_P2_Shallow_7	non-Rad	Manganese	7439-96-5	ug/kg	4.37E+05	--	--	--	1.12E+07	3.90E-02	1.98%
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	2.40E+04	5.38E-03	0.27%
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.00E+05	1.63E-03	0.08%
118-K-1_P2_Shallow_7	non-Rad	Nickel	7440-02-0	ug/kg	1.19E+04	--	--	--	1.60E+06	7.44E-03	0.38%
118-K-1_P2_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.19E+03	--	--	--	2.40E+05	9.11E-03	0.46%
118-K-1_P2_Shallow_7	non-Rad	Vanadium	7440-62-2	ug/kg	7.91E+04	--	--	--	4.00E+05	1.98E-01	10.01%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	7.72E+04	--	--	--	2.40E+07	3.22E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.32E-06**	**--**	**--**	**1.98E+00**	**--**
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	pCi/g	1.16E+00	8.10E+01	1.43E-06	15.57%	--	--	--
118-K-1_P2_Shallow_7	Rad	Cesium-137	10045-97-3	pCi/g	2.57E-01	4.40E+00	5.83E-06	63.43%	--	--	--
118-K-1_P2_Shallow_7	Rad	Uranium-233/234	U-233/234	pCi/g	6.90E-01	1.33E+02	5.19E-07	5.64%	--	--	--
118-K-1_P2_Shallow_7	Rad	Uranium-238	U-238	pCi/g	7.34E-01	5.20E+01	1.41E-06	15.36%	--	--	--
Total Radiological Risk Estimate							**9.20E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.45E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_8	non-Rad	Aluminum	7429-90-5	ug/kg	7.63E+06	--	--	--	8.00E+07	9.54E-02	5.84%
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	ug/kg	3.42E+03	6.67E+02	5.13E-06	100.00%	2.40E+04	1.43E-01	8.72%
118-K-1_P2_Shallow_8	non-Rad	Barium	7440-39-3	ug/kg	7.82E+04	--	--	--	1.60E+07	4.89E-03	0.30%
118-K-1_P2_Shallow_8	non-Rad	Beryllium	7440-41-7	ug/kg	3.77E+02	--	--	--	1.60E+05	2.36E-03	0.14%
118-K-1_P2_Shallow_8	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	1.60E+07	6.38E-05	0.00%
118-K-1_P2_Shallow_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	--	--	--	8.00E+04	1.45E-03	0.09%
118-K-1_P2_Shallow_8	non-Rad	Chromium	7440-47-3	ug/kg	8.12E+03	--	--	--	1.20E+08	6.76E-05	0.00%
118-K-1_P2_Shallow_8	non-Rad	Cobalt	7440-48-4	ug/kg	1.34E+04	--	--	--	2.40E+04	5.57E-01	34.06%
118-K-1_P2_Shallow_8	non-Rad	Copper	7440-50-8	ug/kg	2.00E+04	--	--	--	3.20E+06	6.25E-03	0.38%
118-K-1_P2_Shallow_8	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	--	--	--	5.60E+07	5.63E-01	34.43%
118-K-1_P2_Shallow_8	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.12E+07	4.04E-02	2.47%
118-K-1_P2_Shallow_8	non-Rad	Molybdenum	7439-98-7	ug/kg	4.35E+02	--	--	--	4.00E+05	1.09E-03	0.07%
118-K-1_P2_Shallow_8	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	--	--	--	1.60E+06	7.07E-03	0.43%
118-K-1_P2_Shallow_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.46E+03	--	--	--	2.40E+05	6.07E-03	0.37%
118-K-1_P2_Shallow_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	4.00E+05	2.05E-01	12.54%
118-K-1_P2_Shallow_8	non-Rad	Zinc	7440-66-6	ug/kg	5.83E+04	--	--	--	2.40E+07	2.43E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.13E-06**	**--**	**--**	**1.63E+00**	**--**
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	pCi/g	1.30E+00	8.10E+01	1.61E-06	22.85%	--	--	--
118-K-1_P2_Shallow_8	Rad	Cesium-137	10045-97-3	pCi/g	1.48E-01	4.40E+00	3.36E-06	47.83%	--	--	--
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	pCi/g	3.43E+00	6.24E+02	5.50E-07	7.82%	--	--	--
118-K-1_P2_Shallow_8	Rad	Uranium-233/234	U-233/234	pCi/g	7.60E-01	1.33E+02	5.71E-07	8.13%	--	--	--
118-K-1_P2_Shallow_8	Rad	Uranium-238	U-238	pCi/g	4.89E-01	5.20E+01	9.40E-07	13.37%	--	--	--
Total Radiological Risk Estimate							**7.03E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.22E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_9	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	8.00E+07	1.29E-01	9.72%
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	6.67E+02	4.65E-06	100.00%	2.40E+04	1.29E-01	9.70%
118-K-1_P2_Shallow_9	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.60E+07	5.28E-03	0.40%
118-K-1_P2_Shallow_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.69E+02	--	--	--	1.60E+05	2.31E-03	0.17%
118-K-1_P2_Shallow_9	non-Rad	Boron	7440-42-8	ug/kg	2.63E+03	--	--	--	1.60E+07	1.64E-04	0.01%
118-K-1_P2_Shallow_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.56E+02	--	--	--	8.00E+04	1.95E-03	0.15%
118-K-1_P2_Shallow_9	non-Rad	Chromium	7440-47-3	ug/kg	1.30E+04	--	--	--	1.20E+08	1.08E-04	0.01%
118-K-1_P2_Shallow_9	non-Rad	Cobalt	7440-48-4	ug/kg	8.48E+03	--	--	--	2.40E+04	3.53E-01	26.56%
118-K-1_P2_Shallow_9	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.20E+06	5.34E-03	0.40%
118-K-1_P2_Shallow_9	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	--	--	--	5.60E+07	4.70E-01	35.28%
118-K-1_P2_Shallow_9	non-Rad	Manganese	7439-96-5	ug/kg	4.01E+05	--	--	--	1.12E+07	3.58E-02	2.69%
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	2.40E+04	8.83E-04	0.07%
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.00E+05	1.60E-03	0.12%
118-K-1_P2_Shallow_9	non-Rad	Nickel	7440-02-0	ug/kg	1.17E+04	--	--	--	1.60E+06	7.33E-03	0.55%
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.31E+05	--	--	--	5.68E+08	4.07E-04	0.03%
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.40E+07	4.17E-05	0.00%
118-K-1_P2_Shallow_9	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.72E+03	--	--	--	2.40E+05	1.13E-02	0.85%
118-K-1_P2_Shallow_9	non-Rad	Vanadium	7440-62-2	ug/kg	6.98E+04	--	--	--	4.00E+05	1.75E-01	13.11%
118-K-1_P2_Shallow_9	non-Rad	Zinc	7440-66-6	ug/kg	5.56E+04	--	--	--	2.40E+07	2.32E-03	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.65E-06**	**--**	**--**	**1.33E+00**	**--**
118-K-1_P2_Shallow_9	Rad	Cesium-137	10045-97-3	pCi/g	1.23E-01	4.40E+00	2.80E-06	43.10%	--	--	--
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	pCi/g	5.30E-02	3.60E+00	1.47E-06	22.70%	--	--	--

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_9	Rad	Uranium-233/234	U-233/234	pCi/g	6.13E-01	1.33E+02	4.61E-07	7.11%	--	--	--
118-K-1_P2_Shallow_9	Rad	Uranium-238	U-238	pCi/g	9.14E-01	5.20E+01	1.76E-06	27.10%	--	--	--
Total Radiological Risk Estimate							**6.49E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.11E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.04E+06	--	--	--	8.00E+07	8.80E-02	5.57%
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	3.69E+02	--	--	--	3.20E+04	1.15E-02	0.73%
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.98E+03	6.67E+02	5.97E-06	100.00%	2.40E+04	1.66E-01	10.50%
118-K-1_P2_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.60E+07	5.03E-03	0.32%
118-K-1_P2_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	--	--	--	1.60E+05	1.99E-03	0.13%
118-K-1_P2_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	8.53E+02	--	--	--	1.60E+07	5.33E-05	0.00%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	--	--	--	8.00E+04	1.45E-03	0.09%
118-K-1_P2_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	1.74E+04	--	--	--	1.20E+08	1.45E-04	0.01%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.82E+03	--	--	--	2.40E+04	3.68E-01	23.26%
118-K-1_P2_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.64E+04	--	--	--	3.20E+06	5.13E-03	0.32%
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	3.44E+07	--	--	--	5.60E+07	6.14E-01	38.89%
118-K-1_P2_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	4.64E+05	--	--	--	1.12E+07	4.14E-02	2.62%
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.81E+02	--	--	--	4.00E+05	1.20E-03	0.08%
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	--	--	--	1.60E+06	1.66E-02	1.05%
118-K-1_P2_Shallow_Focused_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	2.40E+05	9.64E-03	0.61%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.00E+05	2.48E-01	15.68%
118-K-1_P2_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	5.30E+04	--	--	--	2.40E+07	2.21E-03	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.97E-06**	**--**	**--**	**1.58E+00**	**--**
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	pCi/g	1.72E+00	8.10E+01	2.12E-06	50.34%	--	--	--
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	7.99E-01	1.33E+02	6.01E-07	14.24%	--	--	--
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	7.77E-01	5.20E+01	1.49E-06	35.42%	--	--	--
Total Radiological Risk Estimate							**4.22E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.02E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_4	non-Rad	Aluminum	7429-90-5	ug/kg	4.41E+06	--	--	--	8.00E+07	5.51E-02	4.83%
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.56E+03	6.67E+02	2.34E-06	100.00%	2.40E+04	6.50E-02	5.69%
118-K-1_P2_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.60E+07	3.25E-03	0.28%
118-K-1_P2_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	--	--	--	1.60E+05	1.78E-03	0.16%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	7.33E+01	--	--	--	8.00E+04	9.16E-04	0.08%
118-K-1_P2_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2.39E+03	--	--	--	1.20E+08	1.99E-05	0.00%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.69E+03	--	--	--	2.40E+04	3.20E-01	28.07%
118-K-1_P2_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.43E+04	--	--	--	3.20E+06	4.47E-03	0.39%
118-K-1_P2_Shallow_Focused_4	non-Rad	Iron	7439-89-6	ug/kg	2.74E+07	--	--	--	5.60E+07	4.89E-01	42.86%
118-K-1_P2_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.12E+07	2.82E-02	2.47%
118-K-1_P2_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	2.61E+02	--	--	--	4.00E+05	6.53E-04	0.06%
118-K-1_P2_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.64E+03	--	--	--	1.60E+06	3.53E-03	0.31%
118-K-1_P2_Shallow_Focused_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.11E+03	--	--	--	2.40E+05	4.63E-03	0.41%
118-K-1_P2_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.50E+04	--	--	--	4.00E+05	1.63E-01	14.23%
118-K-1_P2_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	4.43E+04	--	--	--	2.40E+07	1.85E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.34E-06**	**--**	**--**	**1.14E+00**	**--**
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	pCi/g	3.08E+00	8.10E+01	3.80E-06	79.73%	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	3.32E-01	1.33E+02	2.50E-07	5.23%	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	3.73E-01	5.20E+01	7.17E-07	15.04%	--	--	--
Total Radiological Risk Estimate							**4.77E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.11E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_5	non-Rad	Aluminum	7429-90-5	ug/kg	5.27E+06	--	--	--	8.00E+07	6.59E-02	5.90%
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	6.67E+02	2.40E-06	100.00%	2.40E+04	6.67E-02	5.98%
118-K-1_P2_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.57E+04	--	--	--	1.60E+07	3.48E-03	0.31%
118-K-1_P2_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	1.96E+02	--	--	--	1.60E+05	1.23E-03	0.11%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_5	non-Rad	Boron	7440-42-8	ug/kg	4.83E+02	--	--	--	1.60E+07	3.02E-05	0.00%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	6.59E+01	--	--	--	8.00E+04	8.24E-04	0.07%
118-K-1_P2_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3.90E+03	--	--	--	1.20E+08	3.25E-05	0.00%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	7.39E+03	--	--	--	2.40E+04	3.08E-01	27.60%
118-K-1_P2_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	1.42E+04	--	--	--	3.20E+06	4.44E-03	0.40%
118-K-1_P2_Shallow_Focused_5	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	--	--	--	5.60E+07	4.52E-01	40.50%
118-K-1_P2_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.93E+05	--	--	--	1.12E+07	2.62E-02	2.34%
118-K-1_P2_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	3.28E+02	--	--	--	4.00E+05	8.20E-04	0.07%
118-K-1_P2_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	5.78E+03	--	--	--	1.60E+06	3.61E-03	0.32%
118-K-1_P2_Shallow_Focused_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.27E+03	--	--	--	2.40E+05	5.27E-03	0.47%
118-K-1_P2_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.03E+04	--	--	--	4.00E+05	1.76E-01	15.75%
118-K-1_P2_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	4.23E+04	--	--	--	2.40E+07	1.76E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.40E-06**	**--**	**--**	**1.12E+00**	**--**
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	pCi/g	1.33E+00	8.10E+01	1.64E-06	56.60%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-233/234	U-233/234	pCi/g	3.73E-01	1.33E+02	2.80E-07	9.67%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-235	15117-96-1	pCi/g	2.60E-02	1.54E+01	1.69E-07	5.82%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-238	U-238	pCi/g	4.21E-01	5.20E+01	8.10E-07	27.91%	--	--	--
Total Radiological Risk Estimate							**2.90E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.30E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_6	non-Rad	Aluminum	7429-90-5	ug/kg	9.10E+06	--	--	--	8.00E+07	1.14E-01	10.88%
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	3.74E+03	6.67E+02	5.61E-06	100.00%	2.40E+04	1.56E-01	14.90%
118-K-1_P2_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	8.62E+04	--	--	--	1.60E+07	5.39E-03	0.52%
118-K-1_P2_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.02E+02	--	--	--	1.60E+05	1.89E-03	0.18%
118-K-1_P2_Shallow_Focused_6	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	1.60E+07	8.69E-05	0.01%
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	2.03E+04	--	--	--	1.20E+08	1.69E-04	0.02%
118-K-1_P2_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	6.71E+03	--	--	--	2.40E+04	2.80E-01	26.73%
118-K-1_P2_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	1.72E+04	--	--	--	3.20E+06	5.38E-03	0.51%
118-K-1_P2_Shallow_Focused_6	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	--	--	--	5.60E+07	3.21E-01	30.73%
118-K-1_P2_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.12E+07	2.81E-02	2.69%
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	--	--	--	1.60E+06	1.28E-02	1.22%
118-K-1_P2_Shallow_Focused_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.44E+03	--	--	--	2.40E+05	1.01E-02	0.97%
118-K-1_P2_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.39E+04	--	--	--	4.00E+05	1.10E-01	10.49%
118-K-1_P2_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	4.03E+04	--	--	--	2.40E+07	1.68E-03	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.61E-06**	**--**	**--**	**1.05E+00**	**--**
118-K-1_P2_Shallow_Focused_6	Rad	Cesium-137	10045-97-3	pCi/g	6.27E-01	4.40E+00	1.43E-05	78.68%	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	pCi/g	1.17E+01	6.24E+02	1.88E-06	10.35%	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-233/234	U-233/234	pCi/g	5.50E-01	1.33E+02	4.14E-07	2.28%	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-238	U-238	pCi/g	8.18E-01	5.20E+01	1.57E-06	8.69%	--	--	--
Total Radiological Risk Estimate							**1.81E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.37E-05**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_8	non-Rad	Aluminum	7429-90-5	ug/kg	6.68E+06	--	--	--	8.00E+07	8.35E-02	6.38%
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	ug/kg	4.16E+03	6.67E+02	6.24E-06	100.00%	2.40E+04	1.73E-01	13.25%
118-K-1_P2_Shallow_Focused_8	non-Rad	Barium	7440-39-3	ug/kg	6.77E+04	--	--	--	1.60E+07	4.23E-03	0.32%
118-K-1_P2_Shallow_Focused_8	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	--	--	--	1.60E+05	1.75E-03	0.13%
118-K-1_P2_Shallow_Focused_8	non-Rad	Boron	7440-42-8	ug/kg	7.96E+02	--	--	--	1.60E+07	4.98E-05	0.00%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	--	--	--	8.00E+04	1.28E-03	0.10%
118-K-1_P2_Shallow_Focused_8	non-Rad	Chromium	7440-47-3	ug/kg	7.04E+03	--	--	--	1.20E+08	5.87E-05	0.00%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cobalt	7440-48-4	ug/kg	7.22E+03	--	--	--	2.40E+04	3.01E-01	22.99%
118-K-1_P2_Shallow_Focused_8	non-Rad	Copper	7440-50-8	ug/kg	1.34E+04	--	--	--	3.20E+06	4.19E-03	0.32%
118-K-1_P2_Shallow_Focused_8	non-Rad	Iron	7439-89-6	ug/kg	2.73E+07	--	--	--	5.60E+07	4.88E-01	37.25%
118-K-1_P2_Shallow_Focused_8	non-Rad	Manganese	7439-96-5	ug/kg	3.69E+05	--	--	--	1.12E+07	3.29E-02	2.52%
118-K-1_P2_Shallow_Focused_8	non-Rad	Molybdenum	7439-98-7	ug/kg	4.28E+02	--	--	--	4.00E+05	1.07E-03	0.08%
118-K-1_P2_Shallow_Focused_8	non-Rad	Nickel	7440-02-0	ug/kg	8.98E+03	--	--	--	1.60E+06	5.61E-03	0.43%
118-K-1_P2_Shallow_Focused_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.20E+03	--	--	--	2.40E+05	5.00E-03	0.38%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	4.00E+05	2.05E-01	15.68%
118-K-1_P2_Shallow_Focused_8	non-Rad	Zinc	7440-66-6	ug/kg	4.83E+04	--	--	--	2.40E+07	2.01E-03	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.24E-06**	**--**	**--**	**1.31E+00**	**--**
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-233/234	U-233/234	pCi/g	3.52E-01	1.33E+02	2.65E-07	25.46%	--	--	--
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-238	U-238	pCi/g	4.03E-01	5.20E+01	7.75E-07	74.54%	--	--	--
Total Radiological Risk Estimate							**1.04E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.28E-06**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.21E-06	100.00%	2.40E+04	1.17E-01	13.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Barium	7440-39-3	ug/kg	6.88E+04	--	--	--	1.60E+07	4.30E-03	0.50%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.73E+02	--	--	--	1.60E+05	2.33E-03	0.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Boron	7440-42-8	ug/kg	2.65E+03	--	--	--	1.60E+07	1.65E-04	0.02%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cadmium	7440-43-9	ug/kg	1.07E+02	--	--	--	8.00E+04	1.34E-03	0.15%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Chromium	7440-47-3	ug/kg	8.24E+03	--	--	--	1.20E+08	6.87E-05	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	--	--	--	2.40E+04	4.81E-01	55.56%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Copper	7440-50-8	ug/kg	1.83E+04	--	--	--	3.20E+06	5.72E-03	0.66%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.12E+07	3.47E-02	4.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	--	--	--	1.60E+06	6.85E-03	0.79%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nitrate	14797-55-8	ug/kg	5.00E+03	--	--	--	5.68E+08	8.80E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	4.00E+05	2.55E-03	0.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	ug/kg	3.13E+04	--	--	--	4.80E+07	6.53E-04	0.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	ug/kg	5.56E+02	--	--	--	4.80E+07	1.16E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	2.40E+05	2.15E-03	0.25%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	4.00E+05	2.05E-01	23.68%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Zinc	7440-66-6	ug/kg	5.13E+04	--	--	--	2.40E+07	2.14E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.21E-06**	**--**	**--**	**8.66E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.21E-06**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	ug/kg	6.11E+02	--	--	--	3.20E+04	1.91E-02	2.06%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	ug/kg	4.05E+03	6.67E+02	6.08E-06	100.00%	2.40E+04	1.69E-01	18.19%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Barium	7440-39-3	ug/kg	7.39E+04	--	--	--	1.60E+07	4.62E-03	0.50%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.81E+02	--	--	--	1.60E+05	2.38E-03	0.26%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Boron	7440-42-8	ug/kg	2.05E+03	--	--	--	1.60E+07	1.28E-04	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	--	--	--	8.00E+04	1.28E-03	0.14%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.20E+08	8.56E-05	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	--	--	--	2.40E+04	4.76E-01	51.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Copper	7440-50-8	ug/kg	1.92E+04	--	--	--	3.20E+06	6.00E-03	0.65%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Manganese	7439-96-5	ug/kg	4.52E+05	--	--	--	1.12E+07	4.04E-02	4.35%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	2.40E+04	3.70E-03	0.40%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nickel	7440-02-0	ug/kg	1.26E+04	--	--	--	1.60E+06	7.86E-03	0.85%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.50E+04	--	--	--	5.68E+08	4.40E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Selenium	7782-49-2	ug/kg	7.34E+02	--	--	--	4.00E+05	1.84E-03	0.20%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	ug/kg	3.74E+04	--	--	--	4.80E+07	7.79E-04	0.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	ug/kg	5.87E+02	--	--	--	4.80E+07	1.22E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Uranium	7440-61-1	ug/kg	5.99E+02	--	--	--	2.40E+05	2.50E-03	0.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Vanadium	7440-62-2	ug/kg	7.62E+04	--	--	--	4.00E+05	1.90E-01	20.51%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Zinc	7440-66-6	ug/kg	5.46E+04	--	--	--	2.40E+07	2.27E-03	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.08E-06**	**--**	**--**	**9.28E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.08E-06**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	6.67E+02	3.85E-06	100.00%	2.40E+04	1.07E-01	12.15%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.03E+04	--	--	--	1.60E+07	4.39E-03	0.50%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.49E+02	--	--	--	1.60E+05	2.81E-03	0.32%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.27E+03	--	--	--	1.60E+07	7.95E-05	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.53E+03	--	--	--	1.20E+08	6.27E-05	0.01%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.21E+04	--	--	--	2.40E+04	5.03E-01	57.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.20E+06	6.03E-03	0.68%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1.91E+03	--	--	--	4.80E+06	3.98E-04	0.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	--	--	--	2.40E+05	4.51E-04	0.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.12E+07	3.60E-02	4.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.59E+02	--	--	--	4.00E+05	1.40E-03	0.16%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	--	--	--	1.60E+06	6.37E-03	0.72%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.03E+04	--	--	--	5.68E+08	1.82E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	4.00E+05	2.80E-03	0.32%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	4.80E+07	6.59E-04	0.07%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.68E+02	--	--	--	4.80E+07	1.18E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.61E+02	--	--	--	2.40E+05	2.34E-03	0.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	4.00E+05	2.05E-01	23.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.54E+04	--	--	--	2.40E+07	2.31E-03	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.85E-06**	**--**	**--**	**8.81E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.85E-06**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1.30E+02	--	--	--	3.20E+04	4.06E-03	0.47%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	6.67E+02	4.20E-06	100.00%	2.40E+04	1.17E-01	13.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.01E+05	--	--	--	1.60E+07	6.31E-03	0.73%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.20E+02	--	--	--	1.60E+05	2.63E-03	0.30%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	1.60E+07	3.19E-04	0.04%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	--	--	--	8.00E+04	1.09E-03	0.13%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6.40E+03	--	--	--	1.20E+08	5.33E-05	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.06E+04	--	--	--	2.40E+04	4.42E-01	51.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.49E+04	--	--	--	3.20E+06	1.09E-02	1.26%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.12E+07	2.82E-02	3.26%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.10E+02	--	--	--	4.00E+05	1.53E-03	0.18%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8.70E+03	--	--	--	1.60E+06	5.44E-03	0.63%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	4.00E+05	5.00E-03	0.58%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	8.20E+01	--	--	--	4.00E+05	2.05E-04	0.02%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	4.39E+04	--	--	--	4.80E+07	9.15E-04	0.11%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	6.00E+02	--	--	--	4.80E+07	1.25E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.50E+02	--	--	--	2.40E+05	3.54E-03	0.41%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	4.00E+05	2.34E-01	27.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	6.26E+04	--	--	--	2.40E+07	2.61E-03	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.20E-06**	**--**	**--**	**8.65E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.20E-06**	**--**	**--**	**--**	**--**
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	6.70E+02	--	--	--	2.40E+07	2.79E-05	0.01%
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	6.67E+02	5.55E-06	48.92%	2.40E+04	1.54E-01	51.77%
128-K-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.15E+04	--	--	--	1.60E+07	4.47E-03	1.50%
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	1.00E+04	8.30E-07	7.32%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	1.00E+03	2.90E-06	25.56%	2.40E+04	1.21E-01	40.58%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	1.00E+04	6.10E-07	5.38%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	1.00E+05	4.10E-08	0.36%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	7.14E+04	1.22E-08	0.11%	1.60E+06	5.44E-04	0.18%
128-K-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.50E+02	--	--	--	8.00E+04	4.38E-03	1.47%
128-K-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.35E+04	--	--	--	1.20E+08	1.13E-04	0.04%
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	1.00E+06	1.10E-08	0.10%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	1.00E+03	1.20E-06	10.58%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.10E+04	--	--	--	3.20E+06	3.44E-03	1.15%
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	--	--	--	2.40E+05	2.00E-03	0.67%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	1.00E+04	1.90E-07	1.67%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	2.40E+04	1.25E-03	0.42%
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.10E+04	--	--	--	2.40E+06	4.58E-03	1.54%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	4.00E+05	2.00E-03	0.67%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.13E-05**	**--**	**--**	**2.98E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.13E-05**	**--**	**--**	**--**	**--**
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.80E+01	--	--	--	4.80E+06	3.75E-06	0.00%
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	7.20E+07	1.41E-07	0.00%
128-K-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.07E+06	--	--	--	8.00E+07	1.01E-01	8.68%
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.06E+01	--	--	--	2.40E+07	4.43E-07	0.00%
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.00E+02	--	--	--	3.20E+04	1.56E-02	1.35%
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.26E+03	6.67E+02	4.89E-06	98.95%	2.40E+04	1.36E-01	11.71%
128-K-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.90E+04	--	--	--	1.60E+07	4.31E-03	0.37%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	1.00E+04	2.67E-09	0.05%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	1.00E+03	2.80E-08	0.57%	2.40E+04	1.17E-03	0.10%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	1.00E+04	3.31E-09	0.07%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	1.00E+05	9.36E-11	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.19E+02	--	--	--	1.60E+05	3.24E-03	0.28%
128-K-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	1.60E+07	1.20E-04	0.01%
128-K-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.53E+02	--	--	--	8.00E+04	1.92E-03	0.16%
128-K-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.20E+08	9.10E-05	0.01%
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	1.00E+06	1.39E-11	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	--	--	--	2.40E+04	3.34E-01	28.77%
128-K-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.37E+04	--	--	--	3.20E+06	7.41E-03	0.64%
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	1.00E+03	1.60E-08	0.32%	--	--	--
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4.08E+01	--	--	--	3.20E+06	1.28E-05	0.00%
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.40E+01	--	--	--	3.20E+06	4.38E-06	0.00%
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	1.00E+04	1.81E-09	0.04%	--	--	--
128-K-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	--	--	--	5.60E+07	3.92E-01	33.75%
128-K-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.25E+05	--	--	--	1.12E+07	2.90E-02	2.50%
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	2.40E+04	9.17E-04	0.08%
128-K-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.50E+02	--	--	--	4.00E+05	6.25E-04	0.05%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	--	--	--	1.60E+06	1.00E-05	0.00%
128-K-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	--	--	--	1.60E+06	6.89E-03	0.59%
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.19E+01	--	--	--	2.40E+06	1.75E-05	0.00%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	4.00E+05	2.43E-03	0.21%
128-K-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.91E+04	--	--	--	4.00E+05	1.23E-01	10.56%
128-K-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.95E+04	--	--	--	2.40E+07	2.06E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.95E-06**	**--**	**--**	**1.16E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.95E-06**	**--**	**--**	**--**	**--**
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	7.20E+07	1.39E-07	0.00%
128-K-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.26E+06	--	--	--	8.00E+07	1.16E-01	10.05%
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+02	--	--	--	3.20E+04	1.28E-02	1.11%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	5.00E+02	1.08E-08	0.21%	1.60E+03	3.38E-03	0.29%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	5.00E+02	1.00E-07	1.97%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.30E+03	6.67E+02	4.95E-06	97.58%	2.40E+04	1.38E-01	11.94%
128-K-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.60E+04	--	--	--	1.60E+07	4.75E-03	0.41%
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	1.00E+04	1.00E-09	0.02%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	1.00E+03	9.50E-09	0.19%	2.40E+04	3.96E-04	0.03%
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.00E+04	1.40E-09	0.03%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	1.00E+05	7.80E-11	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.40E+02	--	--	--	1.60E+05	3.38E-03	0.29%
128-K-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3.30E+03	--	--	--	1.60E+07	2.06E-04	0.02%
128-K-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.90E+02	--	--	--	8.00E+04	2.38E-03	0.21%
128-K-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.46E+04	--	--	--	1.20E+08	1.22E-04	0.01%
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.00E+06	1.20E-11	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.40E+03	--	--	--	2.40E+04	3.08E-01	26.77%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	7.36E+04	--	--	--	3.20E+06	2.30E-02	2.00%
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	3.20E+06	9.06E-06	0.00%
128-K-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	--	--	--	5.60E+07	3.77E-01	32.71%
128-K-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.32E+05	--	--	--	1.12E+07	2.96E-02	2.57%
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.40E+04	4.17E-03	0.36%
128-K-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.00E+05	7.50E-04	0.07%
128-K-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.43E+04	--	--	--	1.60E+06	8.94E-03	0.78%
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.80E+01	--	--	--	2.40E+06	7.50E-06	0.00%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	4.00E+05	2.75E-03	0.24%
128-K-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.53E+04	--	--	--	4.00E+05	1.13E-01	9.83%
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	8.80E+04	--	--	--	2.40E+07	3.67E-03	0.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.07E-06**	**--**	**--**	**1.15E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.07E-06**	**--**	**--**	**--**	**--**
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	6.67E+02	4.15E-06	100.00%	2.40E+04	1.15E-01	15.64%
132-KE-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.08E+04	--	--	--	1.60E+07	3.80E-03	0.51%
132-KE-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.01E+02	--	--	--	1.60E+05	1.88E-03	0.25%
132-KE-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.67E+01	--	--	--	8.00E+04	9.59E-04	0.13%
132-KE-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6.77E+03	--	--	--	1.20E+08	5.64E-05	0.01%
132-KE-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.27E+03	--	--	--	2.40E+04	3.86E-01	52.32%
132-KE-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.20E+06	5.16E-03	0.70%
132-KE-1_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	6.97E+03	--	--	--	1.60E+05	4.36E-02	5.90%
132-KE-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.12E+07	2.75E-02	3.73%
132-KE-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.97E+02	--	--	--	4.00E+05	9.93E-04	0.13%
132-KE-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.34E+03	--	--	--	1.60E+06	5.21E-03	0.71%
132-KE-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.67E+02	--	--	--	4.00E+05	6.68E-04	0.09%
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.15E+04	--	--	--	4.80E+07	6.56E-04	0.09%
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.94E+02	--	--	--	4.80E+07	1.03E-05	0.00%
132-KE-1_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.67E+02	--	--	--	2.40E+05	1.95E-03	0.26%
132-KE-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.69E+04	--	--	--	4.00E+05	1.42E-01	19.27%
132-KE-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.48E+04	--	--	--	2.40E+07	1.87E-03	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.15E-06**	**--**	**--**	**7.38E-01**	**--**
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	4.00E-02	1.53E+02	2.61E-08	0.09%	--	--	--
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.45E+01	8.10E+01	1.79E-05	64.00%	--	--	--
132-KE-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	4.20E-01	4.40E+00	9.55E-06	34.12%	--	--	--
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.10E-02	2.03E+02	2.02E-08	0.07%	--	--	--
132-KE-1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	1.33E+02	1.13E-07	0.40%	--	--	--
132-KE-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.50E-02	1.54E+01	9.74E-08	0.35%	--	--	--
132-KE-1_Shallow	Rad	Uranium-238	U-238	pCi/g	1.40E-01	5.20E+01	2.69E-07	0.96%	--	--	--
Total Radiological Risk Estimate							**2.80E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.21E-05**	**--**	**--**	**--**	**--**
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	5.00E+02	2.40E-08	0.46%	1.60E+03	7.50E-03	0.81%
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.49E+03	6.67E+02	5.23E-06	99.54%	2.40E+04	1.45E-01	15.64%
1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.84E+04	--	--	--	1.60E+07	4.90E-03	0.53%
1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.84E+02	--	--	--	1.60E+05	2.40E-03	0.26%
1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.63E+03	--	--	--	1.60E+07	1.02E-04	0.01%
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.22E+04	--	--	--	1.20E+08	1.85E-04	0.02%
1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	--	--	--	2.40E+04	5.13E-01	55.14%
1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.08E+04	--	--	--	3.20E+06	6.50E-03	0.70%
1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.12E+07	3.93E-02	4.23%
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	2.40E+04	2.44E-03	0.26%
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.00E+05	1.38E-03	0.15%
1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.88E+04	--	--	--	1.60E+06	1.18E-02	1.26%
1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8.59E+03	--	--	--	5.68E+08	1.51E-05	0.00%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	4.00E+05	2.22E-03	0.24%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.55E+04	--	--	--	4.80E+07	7.40E-04	0.08%
1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.49E+02	--	--	--	4.80E+07	1.14E-05	0.00%
1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.68E+02	--	--	--	2.40E+05	2.78E-03	0.30%
1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.46E+04	--	--	--	4.00E+05	1.87E-01	20.06%
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.89E+04	--	--	--	2.40E+07	2.87E-03	0.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.26E-06**	**--**	**--**	**9.29E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.26E-06**	**--**	**--**	**--**	**--**
600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.29E+06	--	--	--	8.00E+07	1.16E-01	7.38%
600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.20E+02	--	--	--	3.20E+04	1.63E-02	1.03%
600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.04E+04	6.67E+02	1.55E-05	99.56%	2.40E+04	4.32E-01	27.43%
600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.52E+04	--	--	--	1.60E+07	4.70E-03	0.30%
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	1.00E+03	6.70E-08	0.43%	2.40E+04	2.79E-03	0.18%
600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.53E+02	--	--	--	1.60E+05	4.08E-03	0.26%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	7.14E+04	1.44E-09	0.01%	1.60E+06	6.44E-05	0.00%
600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	1.60E+07	1.10E-04	0.01%
600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.05E+02	--	--	--	8.00E+04	1.32E-03	0.08%
600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.18E+04	--	--	--	1.20E+08	9.84E-05	0.01%
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	1.00E+06	4.60E-11	0.00%	--	--	--
600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.22E+03	--	--	--	2.40E+04	3.43E-01	21.78%
600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.62E+04	--	--	--	3.20E+06	8.20E-03	0.52%
600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	--	--	--	5.60E+07	4.11E-01	26.14%
600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.12E+07	3.11E-02	1.98%
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	2.40E+04	9.00E-04	0.06%
600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.74E+02	--	--	--	4.00E+05	6.85E-04	0.04%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	--	--	--	1.60E+06	2.34E-02	1.49%
600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	8.70E+01	--	--	--	2.40E+06	3.63E-05	0.00%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	4.00E+05	2.46E-03	0.16%
600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.93E+04	--	--	--	4.00E+05	1.73E-01	11.02%
600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.38E+04	--	--	--	2.40E+07	2.24E-03	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.56E-05**	**--**	**--**	**1.57E+00**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.56E-05**	**--**	**--**	**--**	**--**
600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	--	--	--	8.00E+07	1.23E-01	8.81%
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.50E+02	--	--	--	3.20E+04	1.41E-02	1.01%
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.80E+03	6.67E+02	1.02E-05	98.46%	2.40E+04	2.83E-01	20.31%
600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.85E+04	--	--	--	1.60E+07	4.28E-03	0.31%
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	1.00E+04	7.20E-09	0.07%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.00E+03	1.20E-07	1.16%	2.40E+04	5.00E-03	0.36%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.00E+04	2.10E-08	0.20%	--	--	--
600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	6.20E+02	--	--	--	1.60E+05	3.88E-03	0.28%
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	7.14E+04	1.68E-09	0.02%	1.60E+06	7.50E-05	0.01%
600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	1.60E+07	1.25E-04	0.01%
600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.60E+02	--	--	--	8.00E+04	2.00E-03	0.14%
600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.20E+08	1.05E-04	0.01%
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	1.00E+06	9.00E-11	0.00%	--	--	--
600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.90E+03	--	--	--	2.40E+04	3.29E-01	23.60%
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.89E+04	--	--	--	3.20E+06	9.03E-03	0.65%
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	2.40E+02	--	--	--	8.00E+06	3.00E-05	0.00%
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.00E+02	--	--	--	3.20E+06	3.13E-05	0.00%
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	1.00E+04	9.60E-09	0.09%	--	--	--
600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.43E+07	--	--	--	5.60E+07	4.34E-01	31.11%
600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.12E+07	3.10E-02	2.22%
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.40E+04	6.67E-04	0.05%
600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	2.90E+02	--	--	--	4.00E+05	7.25E-04	0.05%
600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	--	--	--	1.60E+06	8.31E-03	0.60%

Table B-2. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	9.60E+01	--	--	--	2.40E+06	4.00E-05	0.00%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	4.00E+05	2.35E-03	0.17%
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	1.80E+02	--	--	--	4.00E+05	4.50E-04	0.03%
600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.62E+04	--	--	--	4.00E+05	1.41E-01	10.07%
600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	6.77E+04	--	--	--	2.40E+07	2.82E-03	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.04E-05**	**--**	**--**	**1.39E+00**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	4.24E+07	8.62E-11	11.53%	5.00E+08	7.31E-06	2.16%
100-K-102_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	7.17E+04	--	--	--	1.67E+10	4.30E-06	1.27%
100-K-102_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	7.60E+07	4.56E-12	0.61%	6.67E+08	5.19E-07	0.15%
100-K-102_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.03E+03	--	--	--	6.67E+11	1.54E-09	0.00%
100-K-102_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.23E+02	6.38E+13	1.92E-18	0.00%	3.33E+08	3.68E-07	0.11%
100-K-102_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	2.03E+07	5.73E-10	76.66%	2.00E+08	5.80E-05	17.20%
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	2.17E+06	6.86E-11	9.18%	3.33E+09	4.47E-08	0.01%
100-K-102_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.97E+05	--	--	--	1.67E+09	2.38E-04	70.51%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	1.00E+10	5.08E-07	0.15%
100-K-102_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	7.01E+08	1.51E-11	2.02%	3.00E+09	3.53E-06	1.05%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	6.67E+11	2.58E-09	0.00%
100-K-102_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.88E+02	--	--	--	1.33E+09	4.41E-07	0.13%
100-K-102_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	8.16E+04	--	--	--	3.33E+09	2.45E-05	7.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.48E-10**	**--**	**--**	**3.37E-04**	**--**
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.03E+03	4.24E+07	7.15E-11	13.26%	5.00E+08	6.06E-06	2.24%
100-K-102_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.67E+10	3.76E-06	1.39%
100-K-102_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	7.60E+07	4.09E-12	0.76%	6.67E+08	4.66E-07	0.17%
100-K-102_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	6.67E+11	1.62E-09	0.00%
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	6.38E+13	1.51E-17	0.00%	3.33E+08	2.89E-06	1.06%
100-K-102_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.12E+03	2.03E+07	4.50E-10	83.51%	2.00E+08	4.56E-05	16.82%
100-K-102_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.67E+09	1.94E-04	71.68%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	1.00E+10	1.21E-07	0.04%
100-K-102_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.34E+03	7.01E+08	1.33E-11	2.47%	3.00E+09	3.11E-06	1.15%
100-K-102_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.31E+02	--	--	--	6.67E+11	4.96E-10	0.00%
100-K-102_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.99E+02	--	--	--	1.33E+09	5.24E-07	0.19%
100-K-102_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.75E+04	--	--	--	3.33E+09	1.42E-05	5.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.39E-10**	**--**	**--**	**2.71E-04**	**--**
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.51E+03	4.24E+07	1.06E-10	13.09%	5.00E+08	9.02E-06	1.79%
100-K-102_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.92E+04	--	--	--	1.67E+10	5.95E-06	1.18%
100-K-102_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.40E+02	7.60E+07	5.79E-12	0.71%	6.67E+08	6.60E-07	0.13%
100-K-102_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.50E+03	--	--	--	6.67E+11	2.25E-09	0.00%
100-K-102_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.83E+02	6.38E+13	2.87E-18	0.00%	3.33E+08	5.49E-07	0.11%
100-K-102_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.38E+04	2.03E+07	6.81E-10	83.84%	2.00E+08	6.90E-05	13.66%
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	4.34E+11	1.06E-08	0.00%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.67E+09	3.89E-04	76.99%
100-K-102_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	7.01E+08	1.91E-11	2.35%	3.00E+09	4.46E-06	0.88%
100-K-102_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	6.54E+02	--	--	--	6.67E+11	9.81E-10	0.00%
100-K-102_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	6.76E+02	--	--	--	1.33E+09	5.07E-07	0.10%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	3.33E+09	2.60E-05	5.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.12E-10**	**--**	**--**	**5.05E-04**	**--**
100-K-105_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	7.80E+06	--	--	--	1.67E+11	4.68E-05	15.41%
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	4.24E+07	5.89E-11	10.07%	5.00E+08	5.00E-06	1.65%
100-K-105_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.40E+04	--	--	--	1.67E+10	3.84E-06	1.26%
100-K-105_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.40E+02	7.60E+07	4.47E-12	0.76%	6.67E+08	5.10E-07	0.17%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-105_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	6.38E+13	1.36E-18	0.00%	3.33E+08	2.61E-07	0.09%
100-K-105_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.60E+03	2.03E+07	3.75E-10	64.05%	2.00E+08	3.80E-05	12.51%
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	2.17E+06	1.34E-10	22.81%	3.33E+09	8.70E-08	0.03%
100-K-105_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.20E+05	--	--	--	1.67E+09	1.92E-04	63.21%
100-K-105_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	7.01E+08	1.35E-11	2.31%	3.00E+09	3.17E-06	1.04%
100-K-105_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	5.00E+02	--	--	--	6.67E+11	7.50E-10	0.00%
100-K-105_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	3.60E+02	--	--	--	1.33E+09	2.70E-07	0.09%
100-K-105_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.60E+04	--	--	--	3.33E+09	1.38E-05	4.54%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.86E-10**	**--**	**--**	**3.04E-04**	**--**
100-K-105_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	--	--	--	1.67E+11	3.78E-05	14.48%
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.20E+03	4.24E+07	5.19E-11	9.82%	5.00E+08	4.40E-06	1.69%
100-K-105_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.67E+10	3.12E-06	1.20%
100-K-105_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	7.60E+07	3.55E-12	0.67%	6.67E+08	4.05E-07	0.16%
100-K-105_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.50E+01	6.38E+13	8.62E-19	0.00%	3.33E+08	1.65E-07	0.06%
100-K-105_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.20E+03	2.03E+07	3.55E-10	67.25%	2.00E+08	3.60E-05	13.79%
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	2.17E+06	1.06E-10	20.05%	3.33E+09	6.90E-08	0.03%
100-K-105_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	2.70E+05	--	--	--	1.67E+09	1.62E-04	62.06%
100-K-105_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.20E+03	7.01E+08	1.17E-11	2.21%	3.00E+09	2.73E-06	1.05%
100-K-105_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	5.10E+02	--	--	--	6.67E+11	7.65E-10	0.00%
100-K-105_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	3.20E+02	--	--	--	1.33E+09	2.40E-07	0.09%
100-K-105_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	3.33E+09	1.41E-05	5.40%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.28E-10**	**--**	**--**	**2.61E-04**	**--**
100-K-105_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	--	--	--	1.67E+11	4.62E-05	15.94%
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	4.24E+07	5.89E-11	11.31%	5.00E+08	5.00E-06	1.72%
100-K-105_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.67E+10	3.60E-06	1.24%
100-K-105_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	7.60E+07	4.08E-12	0.78%	6.67E+08	4.65E-07	0.16%
100-K-105_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	5.00E+01	6.38E+13	7.83E-19	0.00%	3.33E+08	1.50E-07	0.05%
100-K-105_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7.50E+03	2.03E+07	3.70E-10	71.03%	2.00E+08	3.75E-05	12.94%
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	2.17E+06	7.37E-11	14.14%	3.33E+09	4.80E-08	0.02%
100-K-105_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.67E+09	1.80E-04	62.09%
100-K-105_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	8.80E+00	--	--	--	1.00E+10	8.80E-10	0.00%
100-K-105_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.00E+04	7.01E+08	1.43E-11	2.74%	3.00E+09	3.33E-06	1.15%
100-K-105_Shallow_3	non-Rad	Selenium	7782-49-2	ug/kg	5.40E+02	--	--	--	6.67E+11	8.10E-10	0.00%
100-K-105_Shallow_3	non-Rad	Uranium	7440-61-1	ug/kg	9.30E+02	--	--	--	1.33E+09	6.97E-07	0.24%
100-K-105_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.30E+04	--	--	--	3.33E+09	1.29E-05	4.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.21E-10**	**--**	**--**	**2.90E-04**	**--**
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	4.24E+07	6.06E-11	11.59%	5.00E+08	5.14E-06	1.97%
100-K-106_Overburden_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.67E+10	3.69E-06	1.41%
100-K-106_Overburden_1	non-Rad	Beryllium	7440-41-7	ug/kg	1.59E+02	7.60E+07	2.09E-12	0.40%	6.67E+08	2.38E-07	0.09%
100-K-106_Overburden_1	non-Rad	Cadmium	7440-43-9	ug/kg	6.96E+01	6.38E+13	1.09E-18	0.00%	3.33E+08	2.09E-07	0.08%
100-K-106_Overburden_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.06E+03	2.03E+07	4.47E-10	85.55%	2.00E+08	4.53E-05	17.36%
100-K-106_Overburden_1	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.67E+09	1.89E-04	72.41%
100-K-106_Overburden_1	non-Rad	Nickel	7440-02-0	ug/kg	9.02E+03	7.01E+08	1.29E-11	2.46%	3.00E+09	3.01E-06	1.15%
100-K-106_Overburden_1	non-Rad	Uranium	7440-61-1	ug/kg	5.02E+02	--	--	--	1.33E+09	3.76E-07	0.14%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Overburden_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	3.33E+09	1.40E-05	5.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.23E-10**	**--**	**--**	**2.61E-04**	**--**
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.22E+03	4.24E+07	5.23E-11	9.85%	5.00E+08	4.44E-06	1.73%
100-K-106_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	5.91E+04	--	--	--	1.67E+10	3.54E-06	1.38%
100-K-106_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.60E+02	7.60E+07	4.74E-12	0.89%	6.67E+08	5.40E-07	0.21%
100-K-106_Overburden_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.05E+01	6.38E+13	1.10E-18	0.00%	3.33E+08	2.11E-07	0.08%
100-K-106_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.23E+03	2.03E+07	4.55E-10	85.72%	2.00E+08	4.61E-05	17.95%
100-K-106_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.67E+09	1.82E-04	70.70%
100-K-106_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	7.01E+08	1.88E-11	3.54%	3.00E+09	4.40E-06	1.71%
100-K-106_Overburden_2	non-Rad	Selenium	7782-49-2	ug/kg	2.52E+02	--	--	--	6.67E+11	3.78E-10	0.00%
100-K-106_Overburden_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	1.33E+09	3.45E-07	0.13%
100-K-106_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.24E+04	--	--	--	3.33E+09	1.57E-05	6.11%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.31E-10**	**--**	**--**	**2.57E-04**	**--**
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.46E+03	4.24E+07	5.80E-11	12.21%	5.00E+08	4.92E-06	2.06%
100-K-106_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	6.04E+04	--	--	--	1.67E+10	3.62E-06	1.52%
100-K-106_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.57E+02	7.60E+07	3.38E-12	0.71%	6.67E+08	3.85E-07	0.16%
100-K-106_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.44E+01	6.38E+13	1.17E-18	0.00%	3.33E+08	2.23E-07	0.09%
100-K-106_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.16E+03	2.03E+07	4.03E-10	84.75%	2.00E+08	4.08E-05	17.08%
100-K-106_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.67E+09	1.73E-04	72.33%
100-K-106_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	7.75E+03	7.01E+08	1.10E-11	2.33%	3.00E+09	2.58E-06	1.08%
100-K-106_Overburden_3	non-Rad	Uranium	7440-61-1	ug/kg	6.73E+02	--	--	--	1.33E+09	5.05E-07	0.21%
100-K-106_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.36E+04	--	--	--	3.33E+09	1.31E-05	5.47%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.75E-10**	**--**	**--**	**2.39E-04**	**--**
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.17E+03	4.24E+07	5.12E-11	9.66%	5.00E+08	4.34E-06	1.66%
100-K-106_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.84E+04	--	--	--	1.67E+10	3.50E-06	1.34%
100-K-106_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	7.60E+07	4.08E-12	0.77%	6.67E+08	4.65E-07	0.18%
100-K-106_Overburden_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.10E+01	6.38E+13	1.11E-18	0.00%	3.33E+08	2.13E-07	0.08%
100-K-106_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.37E+03	2.03E+07	4.62E-10	87.33%	2.00E+08	4.68E-05	17.88%
100-K-106_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.12E+05	--	--	--	1.67E+09	1.87E-04	71.43%
100-K-106_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	8.29E+03	7.01E+08	1.18E-11	2.23%	3.00E+09	2.76E-06	1.05%
100-K-106_Overburden_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	7.40E+02	--	--	--	1.33E+09	5.55E-07	0.21%
100-K-106_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.40E+04	--	--	--	3.33E+09	1.62E-05	6.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.29E-10**	**--**	**--**	**2.62E-04**	**--**
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.92E+02	4.24E+07	2.34E-11	6.71%	5.00E+08	1.98E-06	1.16%
100-K-106_Shallow	non-Rad	Barium	7440-39-3	ug/kg	4.26E+04	--	--	--	1.67E+10	2.55E-06	1.50%
100-K-106_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	7.60E+07	2.76E-12	0.79%	6.67E+08	3.15E-07	0.18%
100-K-106_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	3.66E+01	6.38E+13	5.73E-19	0.00%	3.33E+08	1.10E-07	0.06%
100-K-106_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6.38E+03	2.03E+07	3.15E-10	90.35%	2.00E+08	3.19E-05	18.71%
100-K-106_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.03E+05	--	--	--	1.67E+09	1.22E-04	71.42%
100-K-106_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	7.01E+08	7.48E-12	2.15%	3.00E+09	1.75E-06	1.03%
100-K-106_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	2.92E+02	--	--	--	1.33E+09	2.19E-07	0.13%
100-K-106_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	3.30E+04	--	--	--	3.33E+09	9.90E-06	5.81%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.48E-10**	**--**	**--**	**1.70E-04**	**--**
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1.32E+03	4.24E+07	3.11E-11	6.93%	5.00E+08	2.64E-06	1.24%
100-K-106_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	5.56E+04	--	--	--	1.67E+10	3.33E-06	1.57%
100-K-106_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.11E+02	7.60E+07	2.78E-12	0.62%	6.67E+08	3.16E-07	0.15%
100-K-106_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	5.93E+01	6.38E+13	9.29E-19	0.00%	3.33E+08	1.78E-07	0.08%
100-K-106_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.24E+03	2.03E+07	4.07E-10	90.50%	2.00E+08	4.12E-05	19.34%
100-K-106_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	2.50E+05	--	--	--	1.67E+09	1.50E-04	70.41%
100-K-106_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6.17E+03	7.01E+08	8.80E-12	1.96%	3.00E+09	2.06E-06	0.97%
100-K-106_Shallow_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	3.67E+02	--	--	--	1.33E+09	2.75E-07	0.13%
100-K-106_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.35E+04	--	--	--	3.33E+09	1.30E-05	6.13%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.49E-10**	**--**	**--**	**2.13E-04**	**--**
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+03	4.24E+07	3.49E-11	6.32%	5.00E+08	2.96E-06	0.93%
100-K-106_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.88E+04	--	--	--	1.67E+10	3.53E-06	1.11%
100-K-106_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.31E+02	7.60E+07	3.04E-12	0.55%	6.67E+08	3.46E-07	0.11%
100-K-106_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.18E+01	6.38E+13	8.11E-19	0.00%	3.33E+08	1.55E-07	0.05%
100-K-106_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.02E+04	2.03E+07	5.03E-10	91.24%	2.00E+08	5.10E-05	16.07%
100-K-106_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.67E+09	2.39E-04	75.45%
100-K-106_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	7.31E+03	7.01E+08	1.04E-11	1.89%	3.00E+09	2.44E-06	0.77%
100-K-106_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.86E+02	--	--	--	1.33E+09	2.89E-07	0.09%
100-K-106_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.73E+04	--	--	--	3.33E+09	1.72E-05	5.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.52E-10**	**--**	**--**	**3.17E-04**	**--**
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	4.24E+07	4.13E-11	7.64%	5.00E+08	3.50E-06	1.29%
100-K-106_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.98E+04	--	--	--	1.67E+10	3.59E-06	1.32%
100-K-106_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.41E+02	7.60E+07	4.49E-12	0.83%	6.67E+08	5.11E-07	0.19%
100-K-106_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.00E+01	6.38E+13	1.10E-18	0.00%	3.33E+08	2.10E-07	0.08%
100-K-106_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.78E+03	2.03E+07	4.83E-10	89.42%	2.00E+08	4.89E-05	17.99%
100-K-106_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.67E+09	1.96E-04	71.98%
100-K-106_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	7.95E+03	7.01E+08	1.13E-11	2.10%	3.00E+09	2.65E-06	0.98%
100-K-106_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.70E+02	--	--	--	1.33E+09	3.52E-07	0.13%
100-K-106_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.48E+04	--	--	--	3.33E+09	1.64E-05	6.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.40E-10**	**--**	**--**	**2.72E-04**	**--**
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.01E+03	4.24E+07	2.38E-11	5.59%	5.00E+08	2.02E-06	0.93%
100-K-106_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	4.90E+04	--	--	--	1.67E+10	2.94E-06	1.36%
100-K-106_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	1.87E+02	7.60E+07	2.46E-12	0.58%	6.67E+08	2.80E-07	0.13%
100-K-106_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.15E+01	6.38E+13	8.07E-19	0.00%	3.33E+08	1.54E-07	0.07%
100-K-106_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.95E+03	2.03E+07	3.92E-10	92.08%	2.00E+08	3.97E-05	18.35%
100-K-106_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.62E+05	--	--	--	1.67E+09	1.57E-04	72.59%
100-K-106_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	7.01E+08	7.48E-12	1.76%	3.00E+09	1.75E-06	0.81%
100-K-106_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	3.56E+02	--	--	--	1.33E+09	2.67E-07	0.12%
100-K-106_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	4.07E+04	--	--	--	3.33E+09	1.22E-05	5.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.26E-10**	**--**	**--**	**2.16E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.73E+03	4.24E+07	4.08E-11	8.20%	5.00E+08	3.46E-06	1.51%
100-K-106_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.33E+04	--	--	--	1.67E+10	3.20E-06	1.40%
100-K-106_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.19E+02	7.60E+07	4.20E-12	0.84%	6.67E+08	4.78E-07	0.21%
100-K-106_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	5.21E+01	6.38E+13	8.16E-19	0.00%	3.33E+08	1.56E-07	0.07%
100-K-106_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.96E+03	2.03E+07	4.42E-10	88.92%	2.00E+08	4.48E-05	19.58%
100-K-106_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.67E+09	1.57E-04	68.44%
100-K-106_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	7.11E+03	7.01E+08	1.01E-11	2.04%	3.00E+09	2.37E-06	1.04%
100-K-106_Shallow_Focused_5	non-Rad	Selenium	7782-49-2	ug/kg	2.75E+02	--	--	--	6.67E+11	4.12E-10	0.00%
100-K-106_Shallow_Focused_5	non-Rad	Uranium	7440-61-1	ug/kg	4.88E+02	--	--	--	1.33E+09	3.66E-07	0.16%
100-K-106_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	5.80E+04	--	--	--	3.33E+09	1.74E-05	7.60%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.97E-10**	**--**	**--**	**2.29E-04**	**--**
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	4.24E+07	4.72E-11	8.71%	5.00E+08	4.00E-06	1.48%
100-K-106_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	5.72E+04	--	--	--	1.67E+10	3.43E-06	1.27%
100-K-106_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.29E+02	7.60E+07	4.33E-12	0.80%	6.67E+08	4.93E-07	0.18%
100-K-106_Shallow_Focused_6	non-Rad	Cadmium	7440-43-9	ug/kg	4.11E+01	6.38E+13	6.44E-19	0.00%	3.33E+08	1.23E-07	0.05%
100-K-106_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	9.64E+03	2.03E+07	4.76E-10	87.92%	2.00E+08	4.82E-05	17.78%
100-K-106_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.30E+05	--	--	--	1.67E+09	1.98E-04	73.02%
100-K-106_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	9.74E+03	7.01E+08	1.39E-11	2.57%	3.00E+09	3.25E-06	1.20%
100-K-106_Shallow_Focused_6	non-Rad	Selenium	7782-49-2	ug/kg	2.53E+02	--	--	--	6.67E+11	3.79E-10	0.00%
100-K-106_Shallow_Focused_6	non-Rad	Uranium	7440-61-1	ug/kg	4.78E+02	--	--	--	1.33E+09	3.58E-07	0.13%
100-K-106_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.43E+04	--	--	--	3.33E+09	1.33E-05	4.90%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.41E-10**	**--**	**--**	**2.71E-04**	**--**
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.19E+03	4.24E+07	5.16E-11	9.12%	5.00E+08	4.38E-06	1.58%
100-K-109_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.67E+10	3.40E-06	1.22%
100-K-109_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	7.60E+07	3.90E-12	0.69%	6.67E+08	4.44E-07	0.16%
100-K-109_Shallow	non-Rad	Boron	7440-42-8	ug/kg	8.98E+02	--	--	--	6.67E+11	1.35E-09	0.00%
100-K-109_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	2.03E+07	4.98E-10	88.00%	2.00E+08	5.04E-05	18.15%
100-K-109_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.67E+09	1.99E-04	71.50%
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	1.00E+10	7.60E-09	0.00%
100-K-109_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.69E+03	7.01E+08	1.24E-11	2.19%	3.00E+09	2.89E-06	1.04%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	6.67E+11	1.54E-09	0.00%
100-K-109_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.56E+02	--	--	--	1.33E+09	3.42E-07	0.12%
100-K-109_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	3.33E+09	1.73E-05	6.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.66E-10**	**--**	**--**	**2.78E-04**	**--**
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.90E+03	4.24E+07	4.48E-11	7.07%	5.00E+08	3.80E-06	1.27%
100-K-109_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.02E+04	--	--	--	1.67E+10	3.61E-06	1.21%
100-K-109_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.00E+02	7.60E+07	3.95E-12	0.62%	6.67E+08	4.50E-07	0.15%
100-K-109_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.10E+01	6.38E+13	1.27E-18	0.00%	3.33E+08	2.43E-07	0.08%
100-K-109_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	2.03E+07	4.98E-10	78.70%	2.00E+08	5.05E-05	16.88%
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	2.17E+06	7.69E-11	12.14%	3.33E+09	5.01E-08	0.02%
100-K-109_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.59E+05	--	--	--	1.67E+09	2.15E-04	71.99%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	1.00E+10	1.40E-09	0.00%
100-K-109_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6.50E+03	7.01E+08	9.27E-12	1.46%	3.00E+09	2.17E-06	0.72%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	6.67E+11	2.85E-09	0.00%
100-K-109_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	1.33E+09	3.45E-07	0.12%
100-K-109_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	7.55E+04	--	--	--	3.33E+09	2.26E-05	7.57%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.33E-10**	**--**	**--**	**2.99E-04**	**--**
100-K-110_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.00E+06	--	--	--	1.67E+11	4.20E-05	10.52%
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8.69E+03	4.24E+07	2.05E-10	22.88%	5.00E+08	1.74E-05	4.35%
100-K-110_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.36E+04	--	--	--	1.67E+10	4.42E-06	1.11%
100-K-110_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.26E+02	7.60E+07	4.30E-12	0.48%	6.67E+08	4.89E-07	0.12%
100-K-110_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.18E+02	6.38E+13	1.84E-18	0.00%	3.33E+08	3.52E-07	0.09%
100-K-110_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.17E+04	2.03E+07	5.80E-10	64.73%	2.00E+08	5.87E-05	14.70%
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	2.17E+06	9.16E-11	10.23%	3.33E+09	5.96E-08	0.01%
100-K-110_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.13E+05	--	--	--	1.67E+09	2.48E-04	62.00%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	1.00E+10	4.31E-08	0.01%
100-K-110_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	7.01E+08	1.51E-11	1.68%	3.00E+09	3.53E-06	0.88%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	6.67E+11	2.72E-09	0.00%
100-K-110_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.26E+04	--	--	--	3.33E+09	2.48E-05	6.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.96E-10**	**--**	**--**	**3.99E-04**	**--**
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	6.38E+13	2.93E-17	100.00%	3.33E+08	5.61E-06	99.80%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	1.00E+10	1.10E-08	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.93E-17**	**--**	**--**	**5.62E-06**	**--**
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.12E+03	4.24E+07	5.00E-11	8.09%	5.00E+08	4.24E-06	1.26%
100-K-14, 126-KE-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.99E+04	--	--	--	1.67E+10	4.19E-06	1.25%
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	7.60E+07	2.15E-11	3.48%	6.67E+08	2.45E-06	0.73%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	6.67E+11	1.59E-08	0.00%
100-K-14, 126-KE-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	2.03E+07	5.35E-10	86.60%	2.00E+08	5.42E-05	16.11%
100-K-14, 126-KE-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.98E+05	--	--	--	1.67E+09	2.39E-04	71.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	1.00E+10	4.91E-08	0.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.91E+03	7.01E+08	1.13E-11	1.83%	3.00E+09	2.64E-06	0.78%
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	6.67E+11	1.71E-09	0.00%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	3.33E+09	2.97E-05	8.84%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.17E-10**	**--**	**--**	**3.36E-04**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	4.24E+07	5.64E-11	8.47%	5.00E+08	4.78E-06	1.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.67E+10	3.60E-06	1.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Beryllium	7440-41-7	ug/kg	5.02E+02	7.60E+07	6.61E-12	0.99%	6.67E+08	7.53E-07	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Boron	7440-42-8	ug/kg	1.05E+03	--	--	--	6.67E+11	1.57E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Cobalt	7440-48-4	ug/kg	1.19E+04	2.03E+07	5.88E-10	88.38%	2.00E+08	5.96E-05	17.89%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.67E+09	2.35E-04	70.66%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	7.01E+08	1.44E-11	2.17%	3.00E+09	3.37E-06	1.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	6.67E+11	3.53E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	1.33E+09	3.67E-07	0.11%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Vanadium	7440-62-2	ug/kg	8.43E+04	--	--	--	3.33E+09	2.53E-05	7.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.66E-10**	**--**	**--**	**3.33E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	4.24E+07	4.13E-11	5.57%	5.00E+08	3.50E-06	0.94%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.67E+10	4.21E-06	1.13%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	6.67E+11	2.89E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	2.03E+07	6.07E-10	81.90%	2.00E+08	6.15E-05	16.47%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	2.17E+06	8.01E-11	10.81%	3.33E+09	5.22E-08	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Manganese	7439-96-5	ug/kg	4.54E+05	--	--	--	1.67E+09	2.72E-04	72.92%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	1.00E+10	2.41E-08	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Nickel	7440-02-0	ug/kg	8.93E+03	7.01E+08	1.27E-11	1.72%	3.00E+09	2.98E-06	0.80%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	6.67E+11	3.60E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Uranium	7440-61-1	ug/kg	4.98E+02	--	--	--	1.33E+09	3.73E-07	0.10%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_O	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	3.33E+09	2.85E-05	7.62%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.41E-10**	**--**	**--**	**3.73E-04**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	4.24E+07	1.02E-10	11.96%	5.00E+08	8.67E-06	2.40%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.67E+10	4.52E-06	1.25%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Beryllium	7440-41-7	ug/kg	4.14E+02	7.60E+07	5.45E-12	0.64%	6.67E+08	6.21E-07	0.17%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	6.67E+11	2.55E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Cadmium	7440-43-9	ug/kg	9.29E+01	6.38E+13	1.46E-18	0.00%	3.33E+08	2.79E-07	0.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Cobalt	7440-48-4	ug/kg	1.26E+04	2.03E+07	6.24E-10	73.00%	2.00E+08	6.32E-05	17.53%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	2.17E+06	1.07E-10	12.54%	3.33E+09	6.98E-08	0.02%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Manganese	7439-96-5	ug/kg	4.21E+05	--	--	--	1.67E+09	2.53E-04	70.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	1.00E+10	6.79E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	7.01E+08	1.60E-11	1.87%	3.00E+09	3.73E-06	1.04%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	6.67E+11	1.58E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Uranium	7440-61-1	ug/kg	6.39E+02	--	--	--	1.33E+09	4.79E-07	0.13%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	3.33E+09	2.62E-05	7.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.55E-10**	**--**	**--**	**3.60E-04**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	4.24E+07	3.77E-11	4.36%	5.00E+08	3.20E-06	1.24%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Barium	7440-39-3	ug/kg	5.44E+04	--	--	--	1.67E+10	3.26E-06	1.27%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	7.60E+07	2.76E-12	0.32%	6.67E+08	3.15E-07	0.12%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Cadmium	7440-43-9	ug/kg	6.10E+01	6.38E+13	9.56E-19	0.00%	3.33E+08	1.83E-07	0.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Cobalt	7440-48-4	ug/kg	9.40E+03	2.03E+07	4.64E-10	53.63%	2.00E+08	4.70E-05	18.24%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	2.17E+06	3.52E-10	40.68%	3.33E+09	2.29E-07	0.09%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Manganese	7439-96-5	ug/kg	2.94E+05	--	--	--	1.67E+09	1.76E-04	68.46%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	1.00E+10	2.90E-08	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Nickel	7440-02-0	ug/kg	6.10E+03	7.01E+08	8.70E-12	1.01%	3.00E+09	2.03E-06	0.79%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	6.67E+11	2.55E-09	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Uranium	7440-61-1	ug/kg	3.80E+02	--	--	--	1.33E+09	2.85E-07	0.11%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_SI	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	3.33E+09	2.47E-05	9.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.65E-10**	**--**	**--**	**2.58E-04**	**--**
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	3.20E+08	3.06E-13	0.02%	--	--	--
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	4.24E+07	5.42E-11	3.55%	5.00E+08	4.60E-06	46.28%
100-K-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.64E+04	--	--	--	1.67E+10	3.98E-06	40.08%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	6.38E+13	2.04E-18	0.00%	3.33E+08	3.90E-07	3.92%
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	2.17E+06	1.47E-09	96.43%	3.33E+09	9.60E-07	9.66%
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	1.00E+10	5.00E-09	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.53E-09**	**--**	**--**	**9.93E-06**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	3.20E+08	5.31E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	3.20E+08	7.50E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	4.24E+07	7.96E-11	0.27%	5.00E+08	6.75E-06	0.37%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.67E+10	4.21E-06	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	3.04E+09	1.61E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	3.04E+08	1.61E-13	0.00%	6.67E+07	7.35E-07	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	3.04E+09	2.40E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	3.04E+10	1.05E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.12E+02	7.60E+07	4.10E-12	0.01%	6.67E+08	4.68E-07	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	6.67E+11	2.85E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	9.72E+01	6.38E+13	1.52E-18	0.00%	3.33E+08	2.91E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	3.04E+11	2.47E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	2.03E+07	4.51E-10	1.54%	2.00E+08	4.57E-05	2.51%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	3.04E+08	1.38E-13	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	2.17E+06	4.70E-11	0.16%	3.33E+09	3.06E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	3.04E+09	8.88E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.45E+05	--	--	--	1.67E+09	2.07E-04	11.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	1.00E+10	5.00E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	1.36E+03	2.87E-08	97.96%	2.53E+04	1.54E-03	84.44%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	7.01E+08	1.49E-11	0.05%	3.00E+09	3.48E-06	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.58E+02	--	--	--	6.67E+11	3.87E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.64E+02	--	--	--	1.33E+09	3.48E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.95E+04	--	--	--	3.33E+09	1.49E-05	0.81%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.93E-08**	**--**	**--**	**1.82E-03**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	3.20E+08	3.75E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.64E+03	4.24E+07	3.87E-11	0.22%	5.00E+08	3.28E-06	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	4.88E+04	--	--	--	1.67E+10	2.93E-06	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	3.04E+09	3.62E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	3.04E+08	2.66E-14	0.00%	6.67E+07	1.21E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	3.04E+09	4.93E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	3.04E+10	2.50E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1.97E+02	7.60E+07	2.59E-12	0.01%	6.67E+08	2.95E-07	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	3.04E+11	5.92E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8.12E+03	2.03E+07	4.01E-10	2.30%	2.00E+08	4.06E-05	3.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	3.04E+09	1.74E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.67E+09	1.55E-04	13.79%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	1.36E+03	1.69E-08	97.41%	2.53E+04	9.08E-04	80.97%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	6.37E+03	7.01E+08	9.08E-12	0.05%	3.00E+09	2.12E-06	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.69E+02	--	--	--	1.33E+09	2.77E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	3.07E+04	--	--	--	3.33E+09	9.21E-06	0.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.74E-08**	**--**	**--**	**1.12E-03**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.11E+03	4.24E+07	4.97E-11	8.95%	5.00E+08	4.22E-06	1.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	6.89E+04	--	--	--	1.67E+10	4.13E-06	1.50%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	3.04E+08	3.29E-15	0.00%	6.67E+07	1.50E-08	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	7.60E+07	3.99E-12	0.72%	6.67E+08	4.54E-07	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.86E+03	2.03E+07	4.87E-10	87.49%	2.00E+08	4.93E-05	17.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.35E+05	--	--	--	1.67E+09	2.01E-04	72.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	7.01E+08	1.58E-11	2.85%	3.00E+09	3.70E-06	1.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	3.00E+02	--	--	--	6.67E+11	4.50E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.85E+02	--	--	--	1.33E+09	3.64E-07	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.24E+04	--	--	--	3.33E+09	1.27E-05	4.61%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.56E-10**	**--**	**--**	**2.76E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	2.10E+03	4.24E+07	4.95E-11	10.64%	5.00E+08	4.20E-06	1.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.68E+04	--	--	--	1.67E+10	3.41E-06	1.54%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.83E+02	7.60E+07	3.72E-12	0.80%	6.67E+08	4.24E-07	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.63E+01	6.38E+13	8.82E-19	0.00%	3.33E+08	1.69E-07	0.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	8.13E+03	2.03E+07	4.01E-10	86.20%	2.00E+08	4.06E-05	18.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.66E+05	--	--	--	1.67E+09	1.60E-04	71.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	7.71E+03	7.01E+08	1.10E-11	2.36%	3.00E+09	2.57E-06	1.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	1.33E+09	3.06E-07	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	3.56E+04	--	--	--	3.33E+09	1.07E-05	4.81%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.65E-10**	**--**	**--**	**2.22E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	4.24E+07	6.67E-11	0.21%	5.00E+08	5.66E-06	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Barium	7440-39-3	ug/kg	6.25E+04	--	--	--	1.67E+10	3.75E-06	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	3.04E+09	4.28E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	3.04E+08	4.61E-14	0.00%	6.67E+07	2.10E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	3.04E+09	6.25E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	3.04E+10	2.66E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Beryllium	7440-41-7	ug/kg	2.67E+02	7.60E+07	3.51E-12	0.01%	6.67E+08	4.00E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Boron	7440-42-8	ug/kg	9.58E+02	--	--	--	6.67E+11	1.44E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cadmium	7440-43-9	ug/kg	7.03E+01	6.38E+13	1.10E-18	0.00%	3.33E+08	2.11E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	3.04E+11	6.91E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cobalt	7440-48-4	ug/kg	8.03E+03	2.03E+07	3.96E-10	1.23%	2.00E+08	4.01E-05	2.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	3.04E+09	2.53E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.67E+09	1.82E-04	9.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	1.36E+03	3.17E-08	98.51%	2.53E+04	1.70E-03	87.43%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Nickel	7440-02-0	ug/kg	9.52E+03	7.01E+08	1.36E-11	0.04%	3.00E+09	3.17E-06	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	1.33E+09	3.79E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Vanadium	7440-62-2	ug/kg	2.88E+04	--	--	--	3.33E+09	8.64E-06	0.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.22E-08**	**--**	**--**	**1.94E-03**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	ug/kg	2.99E+03	4.24E+07	7.05E-11	13.24%	5.00E+08	5.98E-06	2.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.67E+10	4.18E-06	1.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	3.04E+09	2.20E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	3.04E+08	2.04E-13	0.04%	6.67E+07	9.30E-07	0.35%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	3.04E+09	2.90E-14	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	3.04E+10	1.25E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	7.60E+07	3.65E-12	0.68%	6.67E+08	4.15E-07	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	6.67E+11	2.55E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cadmium	7440-43-9	ug/kg	7.52E+01	6.38E+13	1.18E-18	0.00%	3.33E+08	2.25E-07	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	3.04E+11	2.66E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cobalt	7440-48-4	ug/kg	8.98E+03	2.03E+07	4.43E-10	83.23%	2.00E+08	4.49E-05	17.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	3.04E+08	1.68E-13	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	3.04E+09	1.32E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.67E+09	1.91E-04	72.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	7.01E+08	1.47E-11	2.76%	3.00E+09	3.43E-06	1.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	1.33E+09	3.79E-07	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Vanadium	7440-62-2	ug/kg	3.60E+04	--	--	--	3.33E+09	1.08E-05	4.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.32E-10**	**--**	**--**	**2.62E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.24E+07	8.72E-11	16.37%	5.00E+08	7.40E-06	3.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Barium	7440-39-3	ug/kg	5.52E+04	--	--	--	1.67E+10	3.31E-06	1.42%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	3.04E+09	3.26E-14	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	3.04E+08	3.62E-13	0.07%	6.67E+07	1.65E-06	0.71%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	3.04E+09	4.93E-14	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	3.04E+10	2.07E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Beryllium	7440-41-7	ug/kg	2.91E+02	7.60E+07	3.83E-12	0.72%	6.67E+08	4.36E-07	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Boron	7440-42-8	ug/kg	2.97E+03	--	--	--	6.67E+11	4.45E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cadmium	7440-43-9	ug/kg	6.26E+01	6.38E+13	9.81E-19	0.00%	3.33E+08	1.88E-07	0.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	3.04E+11	5.59E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cobalt	7440-48-4	ug/kg	8.39E+03	2.03E+07	4.14E-10	77.69%	2.00E+08	4.19E-05	17.94%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	3.04E+08	1.15E-13	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	3.04E+09	2.40E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Manganese	7439-96-5	ug/kg	2.75E+05	--	--	--	1.67E+09	1.65E-04	70.57%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Nickel	7440-02-0	ug/kg	1.91E+04	7.01E+08	2.72E-11	5.11%	3.00E+09	6.36E-06	2.72%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Uranium	7440-61-1	ug/kg	4.37E+02	--	--	--	1.33E+09	3.28E-07	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Vanadium	7440-62-2	ug/kg	2.39E+04	--	--	--	3.33E+09	7.17E-06	3.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.33E-10**	**--**	**--**	**2.34E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	ug/kg	2.68E+03	4.24E+07	6.32E-11	12.38%	5.00E+08	5.36E-06	2.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Barium	7440-39-3	ug/kg	6.16E+04	--	--	--	1.67E+10	3.69E-06	1.46%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	3.04E+09	2.14E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	3.04E+08	1.02E-13	0.02%	6.67E+07	4.65E-07	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	3.04E+09	1.88E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	3.04E+10	8.22E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Beryllium	7440-41-7	ug/kg	3.42E+02	7.60E+07	4.50E-12	0.88%	6.67E+08	5.13E-07	0.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Boron	7440-42-8	ug/kg	1.60E+03	--	--	--	6.67E+11	2.40E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cadmium	7440-43-9	ug/kg	7.16E+01	6.38E+13	1.12E-18	0.00%	3.33E+08	2.15E-07	0.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	3.04E+11	2.86E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cobalt	7440-48-4	ug/kg	8.67E+03	2.03E+07	4.28E-10	83.85%	2.00E+08	4.33E-05	17.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	3.04E+09	7.24E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.67E+09	1.85E-04	73.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	7.01E+08	1.45E-11	2.85%	3.00E+09	3.40E-06	1.35%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Uranium	7440-61-1	ug/kg	4.84E+02	--	--	--	1.33E+09	3.63E-07	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Vanadium	7440-62-2	ug/kg	3.52E+04	--	--	--	3.33E+09	1.06E-05	4.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.10E-10**	**--**	**--**	**2.53E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	4.24E+07	6.67E-11	12.93%	5.00E+08	5.66E-06	2.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Barium	7440-39-3	ug/kg	6.22E+04	--	--	--	1.67E+10	3.73E-06	1.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	3.04E+09	1.74E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	3.04E+08	7.90E-15	0.00%	6.67E+07	3.60E-08	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	3.04E+09	1.84E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	3.04E+10	6.25E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	7.60E+07	4.09E-12	0.79%	6.67E+08	4.66E-07	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	3.04E+11	3.06E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Cobalt	7440-48-4	ug/kg	8.77E+03	2.03E+07	4.33E-10	83.88%	2.00E+08	4.38E-05	18.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	3.04E+09	4.61E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Manganese	7439-96-5	ug/kg	2.90E+05	--	--	--	1.67E+09	1.74E-04	72.46%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Nickel	7440-02-0	ug/kg	8.65E+03	7.01E+08	1.23E-11	2.39%	3.00E+09	2.88E-06	1.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Selenium	7782-49-2	ug/kg	3.01E+02	--	--	--	6.67E+11	4.51E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Uranium	7440-61-1	ug/kg	4.36E+02	--	--	--	1.33E+09	3.27E-07	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Vanadium	7440-62-2	ug/kg	3.06E+04	--	--	--	3.33E+09	9.18E-06	3.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.16E-10**	**--**	**--**	**2.40E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	ug/kg	3.09E+03	4.24E+07	7.29E-11	14.57%	5.00E+08	6.18E-06	2.37%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Barium	7440-39-3	ug/kg	6.42E+04	--	--	--	1.67E+10	3.85E-06	1.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	3.04E+08	3.62E-15	0.00%	6.67E+07	1.65E-08	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Beryllium	7440-41-7	ug/kg	2.72E+02	7.60E+07	3.58E-12	0.72%	6.67E+08	4.08E-07	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Boron	7440-42-8	ug/kg	8.06E+02	--	--	--	6.67E+11	1.21E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cadmium	7440-43-9	ug/kg	8.69E+01	6.38E+13	1.36E-18	0.00%	3.33E+08	2.61E-07	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cobalt	7440-48-4	ug/kg	8.26E+03	2.03E+07	4.08E-10	81.54%	2.00E+08	4.13E-05	15.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.67E+09	1.94E-04	74.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	7.01E+08	1.58E-11	3.17%	3.00E+09	3.70E-06	1.42%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Uranium	7440-61-1	ug/kg	5.29E+02	--	--	--	1.33E+09	3.97E-07	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Vanadium	7440-62-2	ug/kg	3.58E+04	--	--	--	3.33E+09	1.07E-05	4.11%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.00E-10**	**--**	**--**	**2.61E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	ug/kg	2.61E+03	4.24E+07	6.15E-11	12.77%	5.00E+08	5.22E-06	2.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Barium	7440-39-3	ug/kg	5.80E+04	--	--	--	1.67E+10	3.48E-06	1.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	3.04E+09	9.21E-14	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	3.04E+08	3.95E-13	0.08%	6.67E+07	1.80E-06	0.72%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	3.04E+09	6.91E-14	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	3.04E+10	3.16E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	7.60E+07	3.90E-12	0.81%	6.67E+08	4.44E-07	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	6.67E+11	7.48E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	3.04E+11	1.15E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Cobalt	7440-48-4	ug/kg	8.15E+03	2.03E+07	4.02E-10	83.45%	2.00E+08	4.07E-05	16.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	3.04E+08	2.24E-13	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	3.04E+09	2.07E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Manganese	7439-96-5	ug/kg	3.06E+05	--	--	--	1.67E+09	1.84E-04	73.38%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	7.01E+08	1.35E-11	2.81%	3.00E+09	3.17E-06	1.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Uranium	7440-61-1	ug/kg	3.70E+02	--	--	--	1.33E+09	2.77E-07	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Vanadium	7440-62-2	ug/kg	3.82E+04	--	--	--	3.33E+09	1.15E-05	4.58%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.82E-10**	**--**	**--**	**2.50E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	ug/kg	2.70E+03	4.24E+07	6.37E-11	11.71%	5.00E+08	5.40E-06	2.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Barium	7440-39-3	ug/kg	6.60E+04	--	--	--	1.67E+10	3.96E-06	1.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	3.04E+09	2.60E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	3.04E+08	2.47E-14	0.00%	6.67E+07	1.12E-07	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	3.04E+09	3.62E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	3.04E+10	1.48E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Beryllium	7440-41-7	ug/kg	2.29E+02	7.60E+07	3.01E-12	0.55%	6.67E+08	3.43E-07	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cadmium	7440-43-9	ug/kg	6.36E+01	6.38E+13	9.96E-19	0.00%	3.33E+08	1.91E-07	0.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	3.04E+11	6.25E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cobalt	7440-48-4	ug/kg	9.36E+03	2.03E+07	4.62E-10	84.97%	2.00E+08	4.68E-05	17.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	3.04E+09	1.84E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.67E+09	1.99E-04	73.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	7.01E+08	1.50E-11	2.75%	3.00E+09	3.50E-06	1.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Uranium	7440-61-1	ug/kg	5.28E+02	--	--	--	1.33E+09	3.96E-07	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Vanadium	7440-62-2	ug/kg	3.51E+04	--	--	--	3.33E+09	1.05E-05	3.90%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.44E-10**	**--**	**--**	**2.70E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	4.24E+07	3.04E-11	7.13%	5.00E+08	2.58E-06	1.46%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Barium	7440-39-3	ug/kg	4.00E+04	--	--	--	1.67E+10	2.40E-06	1.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Beryllium	7440-41-7	ug/kg	1.75E+02	7.60E+07	2.30E-12	0.54%	6.67E+08	2.62E-07	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Boron	7440-42-8	ug/kg	5.49E+02	--	--	--	6.67E+11	8.23E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	2.03E+07	3.86E-10	90.59%	2.00E+08	3.91E-05	22.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Manganese	7439-96-5	ug/kg	2.05E+05	--	--	--	1.67E+09	1.23E-04	69.56%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Nickel	7440-02-0	ug/kg	5.20E+03	7.01E+08	7.41E-12	1.74%	3.00E+09	1.73E-06	0.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Selenium	7782-49-2	ug/kg	2.82E+02	--	--	--	6.67E+11	4.23E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Uranium	7440-61-1	ug/kg	3.73E+02	--	--	--	1.33E+09	2.80E-07	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Vanadium	7440-62-2	ug/kg	2.47E+04	--	--	--	3.33E+09	7.41E-06	4.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.27E-10**	**--**	**--**	**1.77E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	4.24E+07	5.63E-11	0.03%	5.00E+08	4.78E-06	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Barium	7440-39-3	ug/kg	5.18E+04	--	--	--	1.67E+10	3.11E-06	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	3.04E+09	4.93E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	3.04E+08	2.34E-13	0.00%	6.67E+07	1.06E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	3.04E+09	3.95E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	3.04E+10	1.84E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Beryllium	7440-41-7	ug/kg	2.47E+02	7.60E+07	3.25E-12	0.00%	6.67E+08	3.70E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Boron	7440-42-8	ug/kg	2.01E+03	--	--	--	6.67E+11	3.01E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cadmium	7440-43-9	ug/kg	6.22E+01	6.38E+13	9.74E-19	0.00%	3.33E+08	1.87E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	3.04E+11	6.58E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cobalt	7440-48-4	ug/kg	6.86E+03	2.03E+07	3.39E-10	0.16%	2.00E+08	3.43E-05	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	3.04E+09	1.05E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Manganese	7439-96-5	ug/kg	2.47E+05	--	--	--	1.67E+09	1.48E-04	1.32%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	1.36E+03	2.06E-07	99.80%	2.53E+04	1.11E-02	98.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nickel	7440-02-0	ug/kg	8.64E+03	7.01E+08	1.23E-11	0.01%	3.00E+09	2.88E-06	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Uranium	7440-61-1	ug/kg	3.71E+02	--	--	--	1.33E+09	2.78E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Vanadium	7440-62-2	ug/kg	2.37E+04	--	--	--	3.33E+09	7.11E-06	0.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.07E-07**	**--**	**--**	**1.13E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	3.20E+08	8.75E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	ug/kg	1.71E+03	4.24E+07	4.03E-11	0.18%	5.00E+08	3.42E-06	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Barium	7440-39-3	ug/kg	4.54E+04	--	--	--	1.67E+10	2.72E-06	0.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	3.04E+09	3.95E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	3.04E+08	3.95E-14	0.00%	6.67E+07	1.80E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	3.04E+09	4.61E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	3.04E+10	2.27E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Beryllium	7440-41-7	ug/kg	1.89E+02	7.60E+07	2.49E-12	0.01%	6.67E+08	2.83E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cadmium	7440-43-9	ug/kg	8.28E+01	6.38E+13	1.30E-18	0.00%	3.33E+08	2.48E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	3.04E+11	5.92E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	2.03E+07	3.91E-10	1.79%	2.00E+08	3.96E-05	2.97%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	3.04E+09	2.43E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Manganese	7439-96-5	ug/kg	2.18E+05	--	--	--	1.67E+09	1.31E-04	9.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	1.36E+03	2.14E-08	97.97%	2.53E+04	1.15E-03	85.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Nickel	7440-02-0	ug/kg	5.65E+03	7.01E+08	8.05E-12	0.04%	3.00E+09	1.88E-06	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	1.33E+09	3.06E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Vanadium	7440-62-2	ug/kg	2.81E+04	--	--	--	3.33E+09	8.43E-06	0.63%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.18E-08**	**--**	**--**	**1.33E-03**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	3.20E+08	7.81E-13	0.13%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	ug/kg	3.83E+03	4.24E+07	9.03E-11	15.38%	5.00E+08	7.66E-06	2.83%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Barium	7440-39-3	ug/kg	7.26E+04	--	--	--	1.67E+10	4.35E-06	1.61%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	3.04E+09	1.18E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	3.04E+08	7.57E-14	0.01%	6.67E+07	3.45E-07	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	3.04E+09	1.15E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	3.04E+10	4.93E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	7.60E+07	4.70E-12	0.80%	6.67E+08	5.35E-07	0.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Boron	7440-42-8	ug/kg	1.45E+03	--	--	--	6.67E+11	2.17E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cadmium	7440-43-9	ug/kg	1.04E+02	6.38E+13	1.63E-18	0.00%	3.33E+08	3.12E-07	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	3.04E+11	1.35E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	2.03E+07	4.77E-10	81.30%	2.00E+08	4.83E-05	17.83%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	3.04E+09	7.90E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Manganese	7439-96-5	ug/kg	3.21E+05	--	--	--	1.67E+09	1.93E-04	71.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nickel	7440-02-0	ug/kg	9.75E+03	7.01E+08	1.39E-11	2.37%	3.00E+09	3.25E-06	1.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Selenium	7782-49-2	ug/kg	2.73E+02	--	--	--	6.67E+11	4.09E-10	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Uranium	7440-61-1	ug/kg	5.48E+02	--	--	--	1.33E+09	4.11E-07	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Vanadium	7440-62-2	ug/kg	4.44E+04	--	--	--	3.33E+09	1.33E-05	4.91%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.87E-10**	**--**	**--**	**2.71E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.74E+03	4.24E+07	6.46E-11	12.25%	5.00E+08	5.48E-06	2.07%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Barium	7440-39-3	ug/kg	8.02E+04	--	--	--	1.67E+10	4.81E-06	1.82%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	3.52E+02	7.60E+07	4.63E-12	0.88%	6.67E+08	5.28E-07	0.20%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	7.81E+01	6.38E+13	1.22E-18	0.00%	3.33E+08	2.34E-07	0.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8.99E+03	2.03E+07	4.44E-10	84.13%	2.00E+08	4.49E-05	17.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.67E+09	1.89E-04	71.38%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	1.00E+10	3.04E-09	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	7.01E+08	1.44E-11	2.74%	3.00E+09	3.38E-06	1.28%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2.56E+02	--	--	--	6.67E+11	3.84E-10	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	6.01E+02	--	--	--	1.33E+09	4.50E-07	0.17%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	3.33E+09	1.58E-05	5.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.28E-10**	**--**	**--**	**2.64E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.73E+03	4.24E+07	6.43E-11	11.32%	5.00E+08	5.45E-06	1.98%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.94E+04	--	--	--	1.67E+10	4.16E-06	1.51%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.06E+02	7.60E+07	5.34E-12	0.94%	6.67E+08	6.09E-07	0.22%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.30E+01	6.38E+13	1.30E-18	0.00%	3.33E+08	2.49E-07	0.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	2.03E+07	4.83E-10	85.12%	2.00E+08	4.90E-05	17.82%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.67E+09	1.95E-04	71.16%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	7.01E+08	1.49E-11	2.62%	3.00E+09	3.48E-06	1.27%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	6.67E+11	4.21E-10	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.30E+02	--	--	--	1.33E+09	3.97E-07	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.31E+04	--	--	--	3.33E+09	1.59E-05	5.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.68E-10**	**--**	**--**	**2.75E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	3.20E+08	6.88E-14	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	4.24E+07	4.72E-11	7.08%	5.00E+08	4.00E-06	1.29%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	6.30E+04	--	--	--	1.67E+10	3.78E-06	1.22%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	3.04E+09	2.40E-15	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	3.04E+08	2.11E-14	0.00%	6.67E+07	9.60E-08	0.03%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	3.04E+09	2.50E-15	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	3.04E+10	9.54E-17	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	7.60E+07	3.68E-12	0.55%	6.67E+08	4.20E-07	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	6.38E+13	1.36E-18	0.00%	3.33E+08	2.61E-07	0.08%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	3.04E+11	3.95E-17	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.22E+04	2.03E+07	6.02E-10	90.42%	2.00E+08	6.10E-05	19.72%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	3.04E+09	9.87E-16	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.64E+05	--	--	--	1.67E+09	2.18E-04	70.60%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9.00E+03	7.01E+08	1.28E-11	1.93%	3.00E+09	3.00E-06	0.97%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	6.67E+11	2.70E-09	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	1.33E+09	3.45E-07	0.11%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.02E+04	--	--	--	3.33E+09	1.81E-05	5.84%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.66E-10**	**--**	**--**	**3.09E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	3.20E+08	6.56E-14	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	3.20E+08	3.75E-14	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.24E+07	7.31E-11	13.93%	5.00E+08	6.20E-06	2.43%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.67E+10	3.47E-06	1.36%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	3.04E+09	1.64E-14	0.00%	--	--	--

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	3.04E+08	1.58E-13	0.03%	6.67E+07	7.20E-07	0.28%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	3.04E+09	1.55E-14	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	7.60E+07	3.55E-12	0.68%	6.67E+08	4.05E-07	0.16%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.10E+02	6.38E+13	1.72E-18	0.00%	3.33E+08	3.30E-07	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	3.04E+11	2.40E-16	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	2.03E+07	4.34E-10	82.78%	2.00E+08	4.40E-05	17.28%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.67E+09	1.80E-04	70.68%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	9.40E+03	7.01E+08	1.34E-11	2.55%	3.00E+09	3.13E-06	1.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	6.67E+11	2.40E-09	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.30E+02	--	--	--	1.33E+09	3.22E-07	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.36E+04	--	--	--	3.33E+09	1.61E-05	6.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.25E-10**	**--**	**--**	**2.55E-04**	**--**
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.19E+03	4.24E+07	7.52E-11	12.06%	5.00E+08	6.38E-06	1.88%
100-K-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	9.81E+04	--	--	--	1.67E+10	5.88E-06	1.73%
100-K-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.16E+02	7.60E+07	5.47E-12	0.88%	6.67E+08	6.24E-07	0.18%
100-K-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.04E+01	6.38E+13	1.26E-18	0.00%	3.33E+08	2.41E-07	0.07%
100-K-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.07E+04	2.03E+07	5.28E-10	84.70%	2.00E+08	5.35E-05	15.76%
100-K-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	4.24E+05	--	--	--	1.67E+09	2.54E-04	74.96%
100-K-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	7.01E+08	1.47E-11	2.36%	3.00E+09	3.43E-06	1.01%
100-K-3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	6.67E+11	4.21E-10	0.00%
100-K-3_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	8.15E+02	--	--	--	1.33E+09	6.11E-07	0.18%
100-K-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.77E+04	--	--	--	3.33E+09	1.43E-05	4.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.23E-10**	**--**	**--**	**3.39E-04**	**--**
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.73E+03	4.24E+07	8.79E-11	15.84%	5.00E+08	7.46E-06	2.89%
100-K-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.01E+04	--	--	--	1.67E+10	4.20E-06	1.63%
100-K-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.34E+02	7.60E+07	4.40E-12	0.79%	6.67E+08	5.01E-07	0.19%
100-K-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.33E+02	--	--	--	6.67E+11	1.25E-09	0.00%
100-K-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.33E+01	6.38E+13	1.30E-18	0.00%	3.33E+08	2.50E-07	0.10%
100-K-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.10E+03	2.03E+07	4.49E-10	80.90%	2.00E+08	4.55E-05	17.62%
100-K-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.01E+05	--	--	--	1.67E+09	1.81E-04	69.94%
100-K-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.59E+03	7.01E+08	1.37E-11	2.46%	3.00E+09	3.20E-06	1.24%
100-K-3_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	2.62E+02	--	--	--	6.67E+11	3.93E-10	0.00%
100-K-3_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.22E+02	--	--	--	1.33E+09	3.91E-07	0.15%
100-K-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.37E+04	--	--	--	3.33E+09	1.61E-05	6.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.55E-10**	**--**	**--**	**2.58E-04**	**--**
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	4.24E+07	6.13E-11	15.94%	5.00E+08	5.20E-06	39.21%
100-K-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.67E+10	4.18E-06	31.53%
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	6.38E+13	1.00E-17	0.00%	3.33E+08	1.92E-06	14.48%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	2.17E+06	3.23E-10	84.06%	3.33E+09	2.10E-07	1.59%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	1.00E+10	1.75E-06	13.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.85E-10**	**--**	**--**	**1.33E-05**	**--**
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.60E-11	39.45%	5.00E+08	5.60E-06	30.15%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.67E+10	1.01E-05	54.58%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	6.38E+13	1.17E-17	0.00%	3.33E+08	2.25E-06	12.11%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	2.17E+06	1.01E-10	60.55%	3.33E+09	6.60E-08	0.36%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	1.00E+10	5.20E-07	2.80%
100-K-31_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	4.00E+02	--	--	--	6.67E+11	6.00E-10	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.67E-10**	**--**	**--**	**1.86E-05**	**--**
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.00E+03	4.24E+07	7.07E-11	40.04%	5.00E+08	6.00E-06	41.60%
100-K-32_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.74E+04	--	--	--	1.67E+10	5.84E-06	40.52%
100-K-32_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.80E+02	6.38E+13	5.95E-18	0.00%	3.33E+08	1.14E-06	7.90%
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	2.17E+06	1.06E-10	59.96%	3.33E+09	6.90E-08	0.48%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	1.00E+10	1.37E-06	9.50%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.77E-10**	**--**	**--**	**1.44E-05**	**--**
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.70E+03	4.24E+07	1.58E-10	19.68%	5.00E+08	1.34E-05	56.30%
100-K-33_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.05E+05	--	--	--	1.67E+10	6.30E-06	26.47%
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	6.38E+13	1.57E-17	0.00%	3.33E+08	3.00E-06	12.61%
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	2.17E+06	6.45E-10	80.32%	3.33E+09	4.20E-07	1.76%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	1.00E+10	6.80E-07	2.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.03E-10**	**--**	**--**	**2.38E-05**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.24E+07	8.71E-11	14.68%	5.00E+08	7.39E-06	2.57%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Barium	7440-39-3	ug/kg	6.70E+04	--	--	--	1.67E+10	4.02E-06	1.40%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	7.60E+07	4.46E-12	0.75%	6.67E+08	5.08E-07	0.18%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Boron	7440-42-8	ug/kg	1.25E+03	--	--	--	6.67E+11	1.87E-09	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cadmium	7440-43-9	ug/kg	8.61E+01	6.38E+13	1.35E-18	0.00%	3.33E+08	2.58E-07	0.09%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cobalt	7440-48-4	ug/kg	9.87E+03	2.03E+07	4.87E-10	82.07%	2.00E+08	4.93E-05	17.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.67E+09	2.08E-04	72.37%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	1.00E+10	1.24E-08	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	7.01E+08	1.48E-11	2.50%	3.00E+09	3.47E-06	1.21%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	6.67E+11	4.05E-10	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Uranium	7440-61-1	ug/kg	5.70E+02	--	--	--	1.33E+09	4.27E-07	0.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	3.33E+09	1.40E-05	4.88%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.93E-10**	**--**	**--**	**2.88E-04**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	4.24E+07	7.48E-11	14.65%	5.00E+08	6.34E-06	2.37%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Barium	7440-39-3	ug/kg	6.67E+04	--	--	--	1.67E+10	4.00E-06	1.49%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.51E+02	7.60E+07	4.62E-12	0.90%	6.67E+08	5.26E-07	0.20%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	6.67E+11	1.62E-09	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cadmium	7440-43-9	ug/kg	6.92E+01	6.38E+13	1.08E-18	0.00%	3.33E+08	2.08E-07	0.08%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cobalt	7440-48-4	ug/kg	8.47E+03	2.03E+07	4.18E-10	81.84%	2.00E+08	4.23E-05	15.80%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Manganese	7439-96-5	ug/kg	3.28E+05	--	--	--	1.67E+09	1.97E-04	73.36%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nickel	7440-02-0	ug/kg	9.36E+03	7.01E+08	1.33E-11	2.61%	3.00E+09	3.12E-06	1.16%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Uranium	7440-61-1	ug/kg	5.27E+02	--	--	--	1.33E+09	3.95E-07	0.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Vanadium	7440-62-2	ug/kg	4.81E+04	--	--	--	3.33E+09	1.44E-05	5.39%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.11E-10**	**--**	**--**	**2.68E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.67E+03	4.24E+07	8.65E-11	11.76%	5.00E+08	7.34E-06	2.23%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.69E+04	--	--	--	1.67E+10	4.01E-06	1.22%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	7.60E+07	4.21E-12	0.57%	6.67E+08	4.79E-07	0.15%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	6.67E+11	2.64E-09	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.41E+02	6.38E+13	2.21E-18	0.00%	3.33E+08	4.23E-07	0.13%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.13E+04	2.03E+07	5.58E-10	75.80%	2.00E+08	5.65E-05	17.20%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	2.17E+06	5.71E-11	7.76%	3.33E+09	3.72E-08	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.83E+05	--	--	--	1.67E+09	2.30E-04	70.04%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	1.00E+10	1.89E-08	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	7.01E+08	3.02E-11	4.10%	3.00E+09	7.06E-06	2.15%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.54E+02	--	--	--	6.67E+11	1.13E-09	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.75E+02	--	--	--	1.33E+09	5.06E-07	0.15%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	3.33E+09	2.20E-05	6.71%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.36E-10**	**--**	**--**	**3.28E-04**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+04	4.24E+07	3.49E-10	36.14%	5.00E+08	2.96E-05	7.90%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.55E+04	--	--	--	1.67E+10	5.13E-06	1.37%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	7.60E+07	5.40E-12	0.56%	6.67E+08	6.15E-07	0.16%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	6.38E+13	1.49E-17	0.00%	3.33E+08	2.85E-06	0.76%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.20E+04	2.03E+07	5.92E-10	61.34%	2.00E+08	6.00E-05	16.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	4.34E+11	1.78E-08	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.67E+09	2.45E-04	65.31%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	1.00E+10	1.00E-08	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	7.01E+08	1.90E-11	1.96%	3.00E+09	4.43E-06	1.18%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	6.67E+11	3.30E-09	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.10E+02	--	--	--	1.33E+09	6.07E-07	0.16%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	3.33E+09	2.67E-05	7.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.65E-10**	**--**	**--**	**3.75E-04**	**--**
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.62E+03	4.24E+07	3.82E-11	6.08%	5.00E+08	3.24E-06	0.94%
100-K-34_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.34E+04	--	--	--	1.67E+10	3.20E-06	0.93%
100-K-34_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.12E+02	7.60E+07	5.42E-12	0.86%	6.67E+08	6.18E-07	0.18%
100-K-34_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	2.03E+07	5.72E-10	91.16%	2.00E+08	5.80E-05	16.79%
100-K-34_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.15E+05	--	--	--	1.67E+09	2.49E-04	72.06%
100-K-34_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.36E+03	7.01E+08	1.19E-11	1.90%	3.00E+09	2.79E-06	0.81%
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	6.67E+11	1.37E-09	0.00%
100-K-34_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	1.33E+09	3.67E-07	0.11%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	3.33E+09	2.83E-05	8.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.28E-10**	**--**	**--**	**3.45E-04**	**--**
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.44E+03	4.24E+07	5.75E-11	12.19%	5.00E+08	4.88E-06	2.03%
100-K-36_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.43E+04	--	--	--	1.67E+10	4.46E-06	1.85%
100-K-36_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	7.60E+07	3.99E-12	0.84%	6.67E+08	4.54E-07	0.19%
100-K-36_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.01E+03	--	--	--	6.67E+11	1.51E-09	0.00%
100-K-36_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.73E+01	6.38E+13	1.21E-18	0.00%	3.33E+08	2.32E-07	0.10%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-36_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	2.03E+07	3.96E-10	83.85%	2.00E+08	4.01E-05	16.68%
100-K-36_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.67E+09	1.73E-04	71.89%
100-K-36_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	7.01E+08	1.47E-11	3.11%	3.00E+09	3.43E-06	1.43%
100-K-36_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.61E+02	--	--	--	1.33E+09	3.46E-07	0.14%
100-K-36_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.55E+04	--	--	--	3.33E+09	1.36E-05	5.68%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.72E-10**	**--**	**--**	**2.40E-04**	**--**
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.41E+03	4.24E+07	8.04E-11	15.44%	5.00E+08	6.82E-06	2.59%
100-K-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.27E+04	--	--	--	1.67E+10	4.36E-06	1.66%
100-K-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.50E+02	7.60E+07	3.29E-12	0.63%	6.67E+08	3.75E-07	0.14%
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	6.67E+11	2.52E-08	0.01%
100-K-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.20E+02	6.38E+13	1.88E-18	0.00%	3.33E+08	3.60E-07	0.14%
100-K-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.55E+03	2.03E+07	4.22E-10	81.01%	2.00E+08	4.27E-05	16.23%
100-K-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.13E+05	--	--	--	1.67E+09	1.88E-04	71.32%
100-K-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	7.01E+08	1.52E-11	2.92%	3.00E+09	3.55E-06	1.35%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	6.67E+11	2.26E-09	0.00%
100-K-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.40E+02	--	--	--	1.33E+09	4.80E-07	0.18%
100-K-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.60E+04	--	--	--	3.33E+09	1.68E-05	6.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.21E-10**	**--**	**--**	**2.63E-04**	**--**
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	3.20E+08	1.64E-14	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	3.20E+08	7.35E-15	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.75E+03	4.24E+07	6.49E-11	9.35%	5.00E+08	5.50E-06	1.69%
100-K-50, 1607-K2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.08E+04	--	--	--	1.67E+10	4.25E-06	1.31%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	3.04E+09	5.56E-14	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	3.04E+08	3.52E-13	0.05%	6.67E+07	1.60E-06	0.49%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	3.04E+09	5.95E-14	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	3.04E+10	8.93E-16	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.38E+03	7.60E+07	1.82E-11	2.62%	6.67E+08	2.07E-06	0.64%
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	6.67E+11	1.35E-08	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	3.04E+11	6.84E-16	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.51E+03	2.03E+07	4.20E-10	60.47%	2.00E+08	4.25E-05	13.08%
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	3.04E+08	9.90E-14	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	2.17E+06	1.76E-10	25.40%	3.33E+09	1.15E-07	0.04%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	3.04E+09	2.31E-14	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.67E+09	2.42E-04	74.32%
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	1.00E+10	1.26E-08	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	7.01E+08	1.44E-11	2.08%	3.00E+09	3.37E-06	1.04%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	6.67E+11	1.48E-09	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.01E+04	--	--	--	3.33E+09	2.40E-05	7.39%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.94E-10**	**--**	**--**	**3.25E-04**	**--**
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.84E+03	4.24E+07	2.32E-10	28.63%	5.00E+08	1.97E-05	6.30%
100-K-53_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.67E+10	3.46E-06	1.11%
100-K-53_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.35E+02	7.60E+07	4.41E-12	0.54%	6.67E+08	5.02E-07	0.16%
100-K-53_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	6.38E+13	1.89E-18	0.00%	3.33E+08	3.61E-07	0.12%
100-K-53_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	2.03E+07	5.10E-10	63.00%	2.00E+08	5.17E-05	16.57%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	2.17E+06	4.70E-11	5.80%	3.33E+09	3.06E-08	0.01%
100-K-53_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.67E+09	2.09E-04	67.14%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	1.00E+10	5.77E-09	0.00%
100-K-53_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	7.01E+08	1.63E-11	2.02%	3.00E+09	3.82E-06	1.23%
100-K-53_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.49E+02	--	--	--	6.67E+11	1.12E-09	0.00%
100-K-53_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.42E+02	--	--	--	1.33E+09	4.06E-07	0.13%
100-K-53_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.52E+04	--	--	--	3.33E+09	2.25E-05	7.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.10E-10**	**--**	**--**	**3.12E-04**	**--**
100-K-55:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	1.33E+09	1.73E-06	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.73E-06**	**--**
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	2.17E+06	4.32E-10	100.00%	3.33E+09	2.81E-07	20.61%
100-K-56:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.44E+03	--	--	--	1.33E+09	1.08E-06	79.39%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.32E-10**	**--**	**--**	**1.36E-06**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.67E+03	4.24E+07	6.29E-11	10.80%	5.00E+08	5.33E-06	1.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	6.54E+04	--	--	--	1.67E+10	3.92E-06	1.36%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	2.86E+02	7.60E+07	3.76E-12	0.65%	6.67E+08	4.29E-07	0.15%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	6.67E+11	1.26E-08	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9.51E+03	2.03E+07	4.69E-10	80.63%	2.00E+08	4.75E-05	16.44%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	2.17E+06	3.31E-11	5.68%	3.33E+09	2.15E-08	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.67E+09	2.11E-04	72.90%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	1.00E+10	6.80E-09	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9.21E+03	7.01E+08	1.31E-11	2.25%	3.00E+09	3.07E-06	1.06%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	6.67E+11	2.74E-09	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	4.48E+02	--	--	--	1.33E+09	3.36E-07	0.12%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.91E+04	--	--	--	3.33E+09	1.77E-05	6.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.82E-10**	**--**	**--**	**2.89E-04**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.34E+03	4.24E+07	5.51E-11	10.81%	5.00E+08	4.68E-06	1.80%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.66E+04	--	--	--	1.67E+10	3.99E-06	1.54%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	7.60E+07	4.18E-12	0.82%	6.67E+08	4.77E-07	0.18%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.94E+03	--	--	--	6.67E+11	2.92E-09	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.77E+01	6.38E+13	1.37E-18	0.00%	3.33E+08	2.63E-07	0.10%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.85E+03	2.03E+07	4.37E-10	85.62%	2.00E+08	4.42E-05	17.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.67E+09	1.91E-04	73.31%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.86E+03	7.01E+08	1.41E-11	2.75%	3.00E+09	3.28E-06	1.26%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	6.67E+11	4.05E-10	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.18E+02	--	--	--	1.33E+09	3.89E-07	0.15%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.02E+04	--	--	--	3.33E+09	1.21E-05	4.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.10E-10**	**--**	**--**	**2.60E-04**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	4.24E+07	6.90E-11	10.55%	5.00E+08	5.85E-06	1.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.33E+04	--	--	--	1.67E+10	4.39E-06	1.39%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	4.22E+02	7.60E+07	5.55E-12	0.85%	6.67E+08	6.33E-07	0.20%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.96E+02	--	--	--	6.67E+11	1.34E-09	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.21E+01	6.38E+13	1.44E-18	0.00%	3.33E+08	2.76E-07	0.09%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	2.03E+07	5.64E-10	86.22%	2.00E+08	5.71E-05	18.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.76E+05	--	--	--	1.67E+09	2.26E-04	71.12%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.09E+04	7.01E+08	1.55E-11	2.38%	3.00E+09	3.63E-06	1.15%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.24E+02	--	--	--	6.67E+11	4.86E-10	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.91E+02	--	--	--	1.33E+09	4.43E-07	0.14%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.43E+04	--	--	--	3.33E+09	1.93E-05	6.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.54E-10**	**--**	**--**	**3.17E-04**	**--**
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.28E+03	4.24E+07	5.38E-11	11.23%	5.00E+08	4.56E-06	1.95%
100-K-6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.11E+04	--	--	--	1.67E+10	3.66E-06	1.57%
100-K-6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	7.60E+07	4.46E-12	0.93%	6.67E+08	5.08E-07	0.22%
100-K-6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.14E+01	6.38E+13	1.28E-18	0.00%	3.33E+08	2.44E-07	0.10%
100-K-6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.31E+03	2.03E+07	4.10E-10	85.67%	2.00E+08	4.15E-05	17.80%
100-K-6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.79E+05	--	--	--	1.67E+09	1.67E-04	71.72%
100-K-6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.27E+03	7.01E+08	1.04E-11	2.17%	3.00E+09	2.42E-06	1.04%
100-K-6_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	6.67E+11	4.21E-10	0.00%
100-K-6_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.77E+02	--	--	--	1.33E+09	3.58E-07	0.15%
100-K-6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.23E+04	--	--	--	3.33E+09	1.27E-05	5.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.79E-10**	**--**	**--**	**2.33E-04**	**--**
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	4.24E+07	3.04E-11	6.69%	5.00E+08	2.58E-06	1.17%
100-K-62_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.05E+04	--	--	--	1.67E+10	3.03E-06	1.37%
100-K-62_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.28E+02	7.60E+07	3.00E-12	0.66%	6.67E+08	3.42E-07	0.15%
100-K-62_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	5.51E+01	6.38E+13	8.63E-19	0.00%	3.33E+08	1.65E-07	0.07%
100-K-62_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.37E+03	2.03E+07	4.13E-10	90.78%	2.00E+08	4.18E-05	18.94%
100-K-62_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.67E+09	1.57E-04	70.88%
100-K-62_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.97E+03	7.01E+08	8.51E-12	1.87%	3.00E+09	1.99E-06	0.90%
100-K-62_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	3.12E+02	--	--	--	6.67E+11	4.68E-10	0.00%
100-K-62_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	3.57E+02	--	--	--	1.33E+09	2.68E-07	0.12%
100-K-62_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	3.33E+09	1.41E-05	6.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.55E-10**	**--**	**--**	**2.21E-04**	**--**
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.01E+03	4.24E+07	7.09E-11	11.52%	5.00E+08	6.01E-06	2.03%
100-K-63_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.92E+04	--	--	--	1.67E+10	4.15E-06	1.40%
100-K-63_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	7.60E+07	4.54E-12	0.74%	6.67E+08	5.18E-07	0.18%
100-K-63_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2.95E+03	--	--	--	6.67E+11	4.43E-09	0.00%
100-K-63_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.89E+02	6.38E+13	2.96E-18	0.00%	3.33E+08	5.66E-07	0.19%
100-K-63_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	2.03E+07	4.51E-10	73.32%	2.00E+08	4.57E-05	15.47%
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	2.17E+06	6.98E-11	11.34%	3.33E+09	4.54E-08	0.02%
100-K-63_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.67E+09	2.17E-04	73.46%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	1.00E+10	1.43E-09	0.00%
100-K-63_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	7.01E+08	1.90E-11	3.09%	3.00E+09	4.44E-06	1.50%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	6.67E+11	1.93E-09	0.00%
100-K-63_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	1.33E+09	3.87E-07	0.13%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-63_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	3.33E+09	1.66E-05	5.62%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.16E-10**	**--**	**--**	**2.96E-04**	**--**
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.88E+03	4.24E+07	9.14E-11	18.13%	5.00E+08	7.75E-06	2.87%
100-K-63_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.83E+04	--	--	--	1.67E+10	4.70E-06	1.74%
100-K-63_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	7.60E+07	4.65E-12	0.92%	6.67E+08	5.30E-07	0.20%
100-K-63_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.02E+03	--	--	--	6.67E+11	3.03E-09	0.00%
100-K-63_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	1.78E+02	6.38E+13	2.79E-18	0.00%	3.33E+08	5.34E-07	0.20%
100-K-63_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	2.03E+07	3.86E-10	76.67%	2.00E+08	3.91E-05	14.52%
100-K-63_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.29E+05	--	--	--	1.67E+09	1.97E-04	73.14%
100-K-63_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.51E+04	7.01E+08	2.15E-11	4.27%	3.00E+09	5.03E-06	1.87%
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	6.67E+11	1.31E-09	0.00%
100-K-63_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.90E+02	--	--	--	1.33E+09	5.17E-07	0.19%
100-K-63_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.74E+04	--	--	--	3.33E+09	1.42E-05	5.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.04E-10**	**--**	**--**	**2.70E-04**	**--**
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.89E+03	4.24E+07	2.33E-10	27.41%	5.00E+08	1.98E-05	5.34%
100-K-77_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.40E+04	--	--	--	1.67E+10	5.04E-06	1.36%
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	3.04E+08	4.43E-14	0.01%	6.67E+07	2.02E-07	0.05%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	3.04E+09	5.07E-15	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	3.04E+10	1.72E-16	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	7.60E+07	5.40E-12	0.63%	6.67E+08	6.15E-07	0.17%
100-K-77_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	2.77E+02	6.38E+13	4.34E-18	0.00%	3.33E+08	8.31E-07	0.22%
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	3.04E+11	4.34E-17	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	2.03E+07	5.33E-10	62.66%	2.00E+08	5.40E-05	14.57%
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	2.17E+06	5.99E-11	7.04%	3.33E+09	3.90E-08	0.01%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	3.04E+09	5.64E-15	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.67E+09	2.64E-04	71.25%
100-K-77_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	7.01E+08	1.91E-11	2.25%	3.00E+09	4.47E-06	1.21%
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	6.67E+11	1.39E-09	0.00%
100-K-77_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	7.71E+02	--	--	--	1.33E+09	5.78E-07	0.16%
100-K-77_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.99E+04	--	--	--	3.33E+09	2.10E-05	5.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.51E-10**	**--**	**--**	**3.70E-04**	**--**
100-K-78_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.08E+07	--	--	--	1.67E+11	6.48E-05	21.40%
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	4.24E+07	1.02E-10	23.77%	5.00E+08	8.66E-06	2.86%
100-K-78_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.53E+04	--	--	--	1.67E+10	5.12E-06	1.69%
100-K-78_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	7.60E+07	4.70E-12	1.09%	6.67E+08	5.35E-07	0.18%
100-K-78_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.57E+03	--	--	--	6.67E+11	2.35E-09	0.00%
100-K-78_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	6.38E+13	2.13E-18	0.00%	3.33E+08	4.08E-07	0.13%
100-K-78_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.11E+03	2.03E+07	3.02E-10	70.22%	2.00E+08	3.05E-05	10.09%
100-K-78_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.67E+09	1.73E-04	57.08%
100-K-78_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.48E+04	7.01E+08	2.11E-11	4.91%	3.00E+09	4.93E-06	1.63%
100-K-78_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.77E+03	--	--	--	1.33E+09	2.08E-06	0.69%
100-K-78_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.29E+04	--	--	--	3.33E+09	1.29E-05	4.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.29E-10**	**--**	**--**	**3.03E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-84_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.24E+06	--	--	--	1.67E+11	4.94E-05	14.64%
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6.39E+03	4.24E+07	1.51E-10	24.16%	5.00E+08	1.28E-05	3.78%
100-K-84_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.67E+10	3.96E-06	1.17%
100-K-84_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.55E+02	7.60E+07	7.31E-12	1.17%	6.67E+08	8.33E-07	0.25%
100-K-84_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.36E+03	--	--	--	6.67E+11	2.04E-09	0.00%
100-K-84_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	6.62E+01	6.38E+13	1.04E-18	0.00%	3.33E+08	1.99E-07	0.06%
100-K-84_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.13E+03	2.03E+07	4.50E-10	72.21%	2.00E+08	4.56E-05	13.51%
100-K-84_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.39E+05	--	--	--	1.67E+09	2.04E-04	60.28%
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	1.00E+10	4.92E-08	0.01%
100-K-84_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	7.01E+08	1.53E-11	2.46%	3.00E+09	3.58E-06	1.06%
100-K-84_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	3.33E+09	1.77E-05	5.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.24E-10**	**--**	**--**	**3.38E-04**	**--**
100-K-85_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	--	--	--	1.67E+11	4.59E-05	14.68%
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.60E-11	13.26%	5.00E+08	5.60E-06	1.79%
100-K-85_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.67E+10	3.40E-06	1.09%
100-K-85_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.30E+02	7.60E+07	3.03E-12	0.61%	6.67E+08	3.45E-07	0.11%
100-K-85_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.10E+03	--	--	--	6.67E+11	1.65E-09	0.00%
100-K-85_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.20E+01	6.38E+13	9.71E-19	0.00%	3.33E+08	1.86E-07	0.06%
100-K-85_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.40E+03	2.03E+07	4.15E-10	83.29%	2.00E+08	4.20E-05	13.43%
100-K-85_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.27E+05	--	--	--	1.67E+09	1.96E-04	62.73%
100-K-85_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	9.90E+00	--	--	--	1.00E+10	9.90E-10	0.00%
100-K-85_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.90E+03	7.01E+08	1.41E-11	2.84%	3.00E+09	3.30E-06	1.06%
100-K-85_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	3.33E+09	1.58E-05	5.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.98E-10**	**--**	**--**	**3.13E-04**	**--**
100-K-86_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.78E+06	--	--	--	1.67E+11	5.87E-05	15.45%
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.60E-11	11.48%	5.00E+08	5.60E-06	1.47%
100-K-86_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.61E+04	--	--	--	1.67E+10	4.56E-06	1.20%
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	3.04E+09	1.48E-15	0.00%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	3.04E+08	3.29E-14	0.01%	6.67E+07	1.50E-07	0.04%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	3.04E+09	3.95E-15	0.00%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.30E+02	7.60E+07	5.66E-12	0.98%	6.67E+08	6.45E-07	0.17%
100-K-86_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	6.67E+11	2.85E-09	0.00%
100-K-86_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	5.80E+01	6.38E+13	9.09E-19	0.00%	3.33E+08	1.74E-07	0.05%
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	3.04E+11	5.59E-17	0.00%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.90E+03	2.03E+07	4.89E-10	84.93%	2.00E+08	4.95E-05	13.03%
100-K-86_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.67E+09	2.39E-04	63.02%
100-K-86_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	7.01E+08	1.50E-11	2.60%	3.00E+09	3.50E-06	0.92%
100-K-86_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	3.33E+09	1.77E-05	4.65%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.75E-10**	**--**	**--**	**3.80E-04**	**--**
100-K-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.35E+06	--	--	--	1.67E+11	5.01E-05	18.88%
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9.10E+03	4.24E+07	2.15E-10	47.65%	5.00E+08	1.82E-05	6.86%
100-K-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.03E+05	--	--	--	1.67E+10	6.18E-06	2.33%
100-K-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	7.60E+07	2.76E-12	0.61%	6.67E+08	3.15E-07	0.12%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	6.67E+11	1.42E-08	0.01%
100-K-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4.40E+03	2.03E+07	2.17E-10	48.22%	2.00E+08	2.20E-05	8.29%
100-K-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.67E+09	1.55E-04	58.33%
100-K-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.20E+00	--	--	--	1.00E+10	7.20E-10	0.00%
100-K-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	7.01E+08	1.58E-11	3.51%	3.00E+09	3.70E-06	1.39%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	6.67E+11	1.80E-09	0.00%
100-K-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.36E+04	--	--	--	3.33E+09	1.01E-05	3.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.50E-10**	**--**	**--**	**2.65E-04**	**--**
100-K-89, 600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	1.67E+11	6.22E-05	16.05%
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4.08E+03	4.24E+07	9.63E-11	17.13%	5.00E+08	8.16E-06	2.11%
100-K-89, 600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.67E+10	4.83E-06	1.25%
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	3.04E+09	1.38E-14	0.00%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	3.04E+08	1.28E-13	0.02%	6.67E+07	5.85E-07	0.15%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	3.04E+09	2.13E-14	0.00%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.86E+02	7.60E+07	9.03E-12	1.61%	6.67E+08	1.03E-06	0.27%
100-K-89, 600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2.12E+03	--	--	--	6.67E+11	3.17E-09	0.00%
100-K-89, 600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.76E+01	6.38E+13	1.37E-18	0.00%	3.33E+08	2.63E-07	0.07%
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	3.04E+11	1.54E-16	0.00%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.92E+03	2.03E+07	4.40E-10	78.32%	2.00E+08	4.46E-05	11.52%
100-K-89, 600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.06E+05	--	--	--	1.67E+09	2.44E-04	62.94%
100-K-89, 600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.70E+00	--	--	--	1.00E+10	5.70E-10	0.00%
100-K-89, 600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	7.01E+08	1.64E-11	2.91%	3.00E+09	3.83E-06	0.99%
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	6.67E+11	1.34E-09	0.00%
100-K-89, 600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.01E+04	--	--	--	3.33E+09	1.80E-05	4.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-10**	**--**	**--**	**3.87E-04**	**--**
100-K-89, 600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	--	--	--	1.67E+11	6.54E-05	15.58%
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.54E+04	4.24E+07	3.63E-10	41.98%	5.00E+08	3.08E-05	7.34%
100-K-89, 600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.67E+10	5.07E-06	1.21%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	3.04E+09	6.25E-14	0.01%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	3.04E+08	3.29E-13	0.04%	6.67E+07	1.50E-06	0.36%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	3.04E+09	8.55E-14	0.01%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	7.10E+02	7.60E+07	9.34E-12	1.08%	6.67E+08	1.06E-06	0.25%
100-K-89, 600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.50E+03	--	--	--	6.67E+11	3.75E-09	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	6.38E+13	2.04E-18	0.00%	3.33E+08	3.90E-07	0.09%
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	3.04E+11	8.22E-16	0.00%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	2.03E+07	4.74E-10	54.77%	2.00E+08	4.80E-05	11.43%
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	3.04E+09	1.38E-14	0.00%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.10E+05	--	--	--	1.67E+09	2.46E-04	58.60%
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	1.00E+10	1.60E-09	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.28E+04	7.01E+08	1.82E-11	2.11%	3.00E+09	4.26E-06	1.02%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	6.67E+11	1.33E-09	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	3.33E+09	1.73E-05	4.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.65E-10**	**--**	**--**	**4.20E-04**	**--**
100-K-90_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.65E+06	--	--	--	1.67E+11	9.90E-06	16.51%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-90_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.70E+04	--	--	--	1.67E+10	1.02E-06	1.70%
100-K-90_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.80E+01	7.60E+07	7.63E-13	0.93%	6.67E+08	8.70E-08	0.15%
100-K-90_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.60E+03	2.03E+07	7.90E-11	95.79%	2.00E+08	8.00E-06	13.34%
100-K-90_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.17E+04	--	--	--	1.67E+09	3.70E-05	61.74%
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	1.00E+10	1.70E-09	0.00%
100-K-90_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.90E+03	7.01E+08	2.71E-12	3.29%	3.00E+09	6.33E-07	1.06%
100-K-90_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	1.10E+04	--	--	--	3.33E+09	3.30E-06	5.50%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.24E-11**	**--**	**--**	**5.99E-05**	**--**
100-K-91_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	1.67E+11	4.86E-05	17.34%
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	4.24E+07	5.42E-11	13.30%	5.00E+08	4.60E-06	1.64%
100-K-91_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.21E+04	--	--	--	1.67E+10	3.72E-06	1.33%
100-K-91_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	7.60E+07	4.21E-12	1.03%	6.67E+08	4.80E-07	0.17%
100-K-91_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	6.67E+11	3.00E-09	0.00%
100-K-91_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.80E+03	2.03E+07	3.36E-10	82.31%	2.00E+08	3.40E-05	12.12%
100-K-91_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.67E+09	1.75E-04	62.23%
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	1.00E+10	2.70E-07	0.10%
100-K-91_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.60E+03	7.01E+08	1.37E-11	3.36%	3.00E+09	3.20E-06	1.14%
100-K-91_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.68E+04	--	--	--	3.33E+09	1.10E-05	3.93%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.08E-10**	**--**	**--**	**2.80E-04**	**--**
100-K-92_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.86E+06	--	--	--	1.67E+11	5.31E-05	15.49%
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.90E+03	4.24E+07	6.84E-11	10.97%	5.00E+08	5.80E-06	1.69%
100-K-92_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.09E+04	--	--	--	1.67E+10	4.25E-06	1.24%
100-K-92_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.90E+02	7.60E+07	5.13E-12	0.82%	6.67E+08	5.85E-07	0.17%
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	7.60E+10	1.00E-15	0.00%	--	--	--
100-K-92_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.30E+03	--	--	--	6.67E+11	3.45E-09	0.00%
100-K-92_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.40E+02	6.38E+13	2.19E-18	0.00%	3.33E+08	4.20E-07	0.12%
100-K-92_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	2.03E+07	4.34E-10	69.68%	2.00E+08	4.40E-05	12.82%
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	2.17E+06	9.95E-11	15.96%	3.33E+09	6.48E-08	0.02%
100-K-92_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.67E+09	2.17E-04	63.30%
100-K-92_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	7.01E+08	1.60E-11	2.56%	3.00E+09	3.73E-06	1.09%
100-K-92_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.64E+04	--	--	--	3.33E+09	1.39E-05	4.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.23E-10**	**--**	**--**	**3.43E-04**	**--**
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	3.04E+09	1.79E-14	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	3.04E+08	8.88E-14	0.00%	6.67E+07	4.05E-07	0.06%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	3.04E+09	1.49E-14	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	3.04E+10	5.78E-16	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	3.04E+11	1.93E-16	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	3.04E+09	6.62E-15	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	1.36E+03	1.18E-08	100.00%	2.53E+04	6.32E-04	99.94%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.18E-08**	**--**	**--**	**6.32E-04**	**--**
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	2.17E+06	1.20E-10	100.00%	3.33E+09	7.80E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.20E-10**	**--**	**--**	**7.80E-08**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	2.17E+06	1.34E-10	100.00%	3.33E+09	8.75E-08	5.45%
116-K-2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.03E+03	--	--	--	1.33E+09	1.52E-06	94.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.34E-10**	**--**	**--**	**1.61E-06**	**--**
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	2.17E+06	3.09E-10	100.00%	3.33E+09	2.01E-07	12.82%
116-K-2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.82E+03	--	--	--	1.33E+09	1.37E-06	87.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.09E-10**	**--**	**--**	**1.57E-06**	**--**
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	2.17E+06	1.15E-10	100.00%	3.33E+09	7.50E-08	4.79%
116-K-2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.99E+03	--	--	--	1.33E+09	1.49E-06	95.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.15E-10**	**--**	**--**	**1.57E-06**	**--**
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	2.17E+06	5.58E-10	100.00%	3.33E+09	3.63E-07	22.59%
116-KE-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.66E+03	--	--	--	1.33E+09	1.24E-06	77.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.58E-10**	**--**	**--**	**1.61E-06**	**--**
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.24E+07	8.72E-11	36.47%	5.00E+08	7.40E-06	0.29%
116-KE-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.00E+05	--	--	--	1.67E+10	6.00E-06	0.24%
116-KE-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.95E+02	6.38E+13	3.05E-18	0.00%	3.33E+08	5.85E-07	0.02%
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	2.36E+07	2.50E-03	99.44%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	2.17E+06	1.52E-10	63.53%	3.33E+09	9.90E-08	0.00%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	1.00E+10	1.02E-08	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.39E-10**	**--**	**--**	**2.51E-03**	**--**
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	2.17E+06	2.50E-10	100.00%	3.33E+09	1.63E-07	10.15%
116-KW-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.92E+03	--	--	--	1.33E+09	1.44E-06	89.85%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.50E-10**	**--**	**--**	**1.61E-06**	**--**
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	4.24E+07	6.13E-11	35.67%	5.00E+08	5.20E-06	58.89%
116-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.93E+04	--	--	--	1.67E+10	3.56E-06	40.29%
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	2.17E+06	1.11E-10	64.33%	3.33E+09	7.20E-08	0.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.72E-10**	**--**	**--**	**8.83E-06**	**--**
118-K-1_Overburden_12	non-Rad	Aluminum	7429-90-5	ug/kg	9.09E+06	--	--	--	1.67E+11	5.45E-05	14.73%
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.24E+07	7.31E-11	14.00%	5.00E+08	6.20E-06	1.67%
118-K-1_Overburden_12	non-Rad	Barium	7440-39-3	ug/kg	7.20E+04	--	--	--	1.67E+10	4.32E-06	1.17%
118-K-1_Overburden_12	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	7.60E+07	4.65E-12	0.89%	6.67E+08	5.29E-07	0.14%
118-K-1_Overburden_12	non-Rad	Boron	7440-42-8	ug/kg	1.69E+03	--	--	--	6.67E+11	2.53E-09	0.00%
118-K-1_Overburden_12	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	6.38E+13	1.75E-18	0.00%	3.33E+08	3.34E-07	0.09%
118-K-1_Overburden_12	non-Rad	Cobalt	7440-48-4	ug/kg	8.72E+03	2.03E+07	4.30E-10	82.41%	2.00E+08	4.36E-05	11.77%
118-K-1_Overburden_12	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.67E+09	2.35E-04	63.52%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_Overburden_12	non-Rad	Nickel	7440-02-0	ug/kg	9.88E+03	7.01E+08	1.41E-11	2.70%	3.00E+09	3.29E-06	0.89%
118-K-1_Overburden_12	non-Rad	Vanadium	7440-62-2	ug/kg	7.43E+04	--	--	--	3.33E+09	2.23E-05	6.02%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.22E-10**	**--**	**--**	**3.70E-04**	**--**
118-K-1_Overburden_13	non-Rad	Aluminum	7429-90-5	ug/kg	9.44E+06	--	--	--	1.67E+11	5.66E-05	16.14%
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	ug/kg	2.76E+03	4.24E+07	6.51E-11	14.50%	5.00E+08	5.52E-06	1.57%
118-K-1_Overburden_13	non-Rad	Barium	7440-39-3	ug/kg	7.05E+04	--	--	--	1.67E+10	4.23E-06	1.21%
118-K-1_Overburden_13	non-Rad	Beryllium	7440-41-7	ug/kg	3.43E+02	7.60E+07	4.51E-12	1.01%	6.67E+08	5.14E-07	0.15%
118-K-1_Overburden_13	non-Rad	Boron	7440-42-8	ug/kg	1.68E+03	--	--	--	6.67E+11	2.52E-09	0.00%
118-K-1_Overburden_13	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	6.38E+13	1.75E-18	0.00%	3.33E+08	3.36E-07	0.10%
118-K-1_Overburden_13	non-Rad	Cobalt	7440-48-4	ug/kg	7.38E+03	2.03E+07	3.64E-10	81.16%	2.00E+08	3.69E-05	10.52%
118-K-1_Overburden_13	non-Rad	Manganese	7439-96-5	ug/kg	3.73E+05	--	--	--	1.67E+09	2.24E-04	63.79%
118-K-1_Overburden_13	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	7.01E+08	1.50E-11	3.34%	3.00E+09	3.50E-06	1.00%
118-K-1_Overburden_13	non-Rad	Vanadium	7440-62-2	ug/kg	6.46E+04	--	--	--	3.33E+09	1.94E-05	5.52%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.49E-10**	**--**	**--**	**3.51E-04**	**--**
118-K-1_P1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	1.67E+11	4.86E-05	14.04%
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.60E-11	13.20%	5.00E+08	5.60E-06	1.62%
118-K-1_P1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.67E+10	3.69E-06	1.07%
118-K-1_P1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	6.00E+02	7.60E+07	7.90E-12	1.58%	6.67E+08	9.00E-07	0.26%
118-K-1_P1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	6.67E+11	1.95E-09	0.00%
118-K-1_P1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	6.38E+13	3.13E-18	0.00%	3.33E+08	6.00E-07	0.17%
118-K-1_P1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.30E+03	2.03E+07	4.10E-10	81.91%	2.00E+08	4.15E-05	11.98%
118-K-1_P1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.66E+05	--	--	--	1.67E+09	2.19E-04	63.38%
118-K-1_P1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	7.01E+08	1.65E-11	3.31%	3.00E+09	3.86E-06	1.12%
118-K-1_P1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	3.33E+09	2.20E-05	6.37%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.00E-10**	**--**	**--**	**3.46E-04**	**--**
118-K-1_P1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.68E+06	--	--	--	1.67E+11	5.20E-05	13.85%
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4.29E+03	4.24E+07	1.01E-10	16.38%	5.00E+08	8.57E-06	2.28%
118-K-1_P1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.45E+04	--	--	--	1.67E+10	4.47E-06	1.19%
118-K-1_P1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.88E+02	7.60E+07	5.11E-12	0.83%	6.67E+08	5.82E-07	0.15%
118-K-1_P1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.60E+03	--	--	--	6.67E+11	3.90E-09	0.00%
118-K-1_P1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	2.88E+02	6.38E+13	4.51E-18	0.00%	3.33E+08	8.64E-07	0.23%
118-K-1_P1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.97E+03	2.03E+07	4.92E-10	79.74%	2.00E+08	4.98E-05	13.27%
118-K-1_P1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.67E+09	2.33E-04	62.11%
118-K-1_P1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	7.01E+08	1.88E-11	3.05%	3.00E+09	4.40E-06	1.17%
118-K-1_P1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	3.33E+09	2.16E-05	5.74%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.17E-10**	**--**	**--**	**3.76E-04**	**--**
118-K-1_P1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	8.17E+06	--	--	--	1.67E+11	4.90E-05	13.08%
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.82E+03	4.24E+07	6.65E-11	11.56%	5.00E+08	5.63E-06	1.50%
118-K-1_P1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.67E+10	3.97E-06	1.06%
118-K-1_P1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	7.60E+07	9.21E-12	1.60%	6.67E+08	1.05E-06	0.28%
118-K-1_P1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.43E+03	--	--	--	6.67E+11	2.14E-09	0.00%
118-K-1_P1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	6.38E+13	3.13E-18	0.00%	3.33E+08	6.00E-07	0.16%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	2.03E+07	4.84E-10	84.11%	2.00E+08	4.90E-05	13.08%
118-K-1_P1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.91E+05	--	--	--	1.67E+09	2.34E-04	62.61%
118-K-1_P1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	7.01E+08	1.57E-11	2.73%	3.00E+09	3.66E-06	0.98%
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	3.33E+09	2.71E-05	7.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.75E-10**	**--**	**--**	**3.75E-04**	**--**
118-K-1_P1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.03E+07	--	--	--	1.67E+11	6.18E-05	16.10%
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5.30E+03	4.24E+07	1.25E-10	22.95%	5.00E+08	1.06E-05	2.76%
118-K-1_P1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	8.81E+04	--	--	--	1.67E+10	5.28E-06	1.38%
118-K-1_P1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	7.25E+02	7.60E+07	9.54E-12	1.75%	6.67E+08	1.09E-06	0.28%
118-K-1_P1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	6.67E+11	3.62E-09	0.00%
118-K-1_P1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	3.37E+02	6.38E+13	5.28E-18	0.00%	3.33E+08	1.01E-06	0.26%
118-K-1_P1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	2.03E+07	3.91E-10	71.80%	2.00E+08	3.96E-05	10.32%
118-K-1_P1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	4.00E+05	--	--	--	1.67E+09	2.40E-04	62.59%
118-K-1_P1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+01	--	--	--	1.00E+10	1.00E-09	0.00%
118-K-1_P1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	7.01E+08	1.91E-11	3.50%	3.00E+09	4.45E-06	1.16%
118-K-1_P1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	3.33E+09	1.97E-05	5.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.45E-10**	**--**	**--**	**3.84E-04**	**--**
118-K-1_P1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	9.57E+06	--	--	--	1.67E+11	5.74E-05	13.98%
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3.71E+03	4.24E+07	8.74E-11	13.78%	5.00E+08	7.41E-06	1.81%
118-K-1_P1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.28E+04	--	--	--	1.67E+10	4.37E-06	1.06%
118-K-1_P1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	7.60E+07	9.21E-12	1.45%	6.67E+08	1.05E-06	0.26%
118-K-1_P1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	6.67E+11	2.85E-09	0.00%
118-K-1_P1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	6.38E+13	3.13E-18	0.00%	3.33E+08	6.00E-07	0.15%
118-K-1_P1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	2.03E+07	5.07E-10	79.94%	2.00E+08	5.14E-05	12.51%
118-K-1_P1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	4.16E+05	--	--	--	1.67E+09	2.49E-04	60.76%
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	5.28E+05	1.14E-11	1.79%	5.80E+05	1.04E-05	2.52%
118-K-1_P1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	1.35E+04	7.01E+08	1.92E-11	3.03%	3.00E+09	4.49E-06	1.09%
118-K-1_P1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.36E+03	--	--	--	1.33E+09	1.77E-06	0.43%
118-K-1_P1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.44E+04	--	--	--	3.33E+09	2.23E-05	5.43%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.34E-10**	**--**	**--**	**4.11E-04**	**--**
118-K-1_P1_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.76E+06	--	--	--	1.67E+11	5.25E-05	13.05%
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	4.80E+03	4.24E+07	1.13E-10	17.81%	5.00E+08	9.60E-06	2.38%
118-K-1_P1_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	6.86E+04	--	--	--	1.67E+10	4.11E-06	1.02%
118-K-1_P1_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.00E+02	7.60E+07	5.26E-12	0.83%	6.67E+08	6.00E-07	0.15%
118-K-1_P1_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	6.67E+11	1.95E-09	0.00%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	6.38E+13	3.13E-18	0.00%	3.33E+08	6.00E-07	0.15%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	2.03E+07	4.84E-10	76.12%	2.00E+08	4.90E-05	12.16%
118-K-1_P1_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.67E+09	2.45E-04	60.77%
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	5.28E+05	1.70E-11	2.68%	5.80E+05	1.55E-05	3.86%
118-K-1_P1_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	1.14E+04	7.01E+08	1.63E-11	2.56%	3.00E+09	3.80E-06	0.94%
118-K-1_P1_Shallow_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.72E+03	--	--	--	1.33E+09	1.29E-06	0.32%
118-K-1_P1_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	6.97E+04	--	--	--	3.33E+09	2.09E-05	5.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.35E-10**	**--**	**--**	**4.03E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.76E+06	--	--	--	1.67E+11	3.45E-05	12.51%
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.42E+03	4.24E+07	5.71E-11	13.09%	5.00E+08	4.84E-06	1.75%
118-K-1_P2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.67E+10	3.33E-06	1.20%
118-K-1_P2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.51E+02	7.60E+07	3.30E-12	0.76%	6.67E+08	3.76E-07	0.14%
118-K-1_P2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.46E+03	--	--	--	6.67E+11	2.19E-09	0.00%
118-K-1_P2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	7.65E+01	6.38E+13	1.20E-18	0.00%	3.33E+08	2.29E-07	0.08%
118-K-1_P2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.41E+03	2.03E+07	3.65E-10	83.82%	2.00E+08	3.70E-05	13.40%
118-K-1_P2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	2.95E+05	--	--	--	1.67E+09	1.77E-04	64.05%
118-K-1_P2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	7.14E+03	7.01E+08	1.02E-11	2.33%	3.00E+09	2.38E-06	0.86%
118-K-1_P2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	3.33E+09	1.66E-05	6.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.36E-10**	**--**	**--**	**2.76E-04**	**--**
118-K-1_P2_Shallow_10	non-Rad	Aluminum	7429-90-5	ug/kg	9.80E+06	--	--	--	1.67E+11	5.88E-05	13.97%
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	ug/kg	3.37E+03	4.24E+07	7.95E-11	13.85%	5.00E+08	6.74E-06	1.60%
118-K-1_P2_Shallow_10	non-Rad	Barium	7440-39-3	ug/kg	7.66E+04	--	--	--	1.67E+10	4.59E-06	1.09%
118-K-1_P2_Shallow_10	non-Rad	Beryllium	7440-41-7	ug/kg	4.01E+02	7.60E+07	5.27E-12	0.92%	6.67E+08	6.01E-07	0.14%
118-K-1_P2_Shallow_10	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	6.67E+11	2.49E-09	0.00%
118-K-1_P2_Shallow_10	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	6.38E+13	1.90E-18	0.00%	3.33E+08	3.63E-07	0.09%
118-K-1_P2_Shallow_10	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	2.03E+07	4.74E-10	82.55%	2.00E+08	4.80E-05	11.41%
118-K-1_P2_Shallow_10	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.67E+09	2.71E-04	64.53%
118-K-1_P2_Shallow_10	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	7.01E+08	1.54E-11	2.68%	3.00E+09	3.60E-06	0.86%
118-K-1_P2_Shallow_10	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.17E+03	--	--	--	1.33E+09	1.63E-06	0.39%
118-K-1_P2_Shallow_10	non-Rad	Vanadium	7440-62-2	ug/kg	8.31E+04	--	--	--	3.33E+09	2.49E-05	5.92%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.74E-10**	**--**	**--**	**4.21E-04**	**--**
118-K-1_P2_Shallow_11A	non-Rad	Aluminum	7429-90-5	ug/kg	7.97E+06	--	--	--	1.67E+11	4.78E-05	14.27%
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	ug/kg	2.97E+03	4.24E+07	7.01E-11	14.42%	5.00E+08	5.94E-06	1.77%
118-K-1_P2_Shallow_11A	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.67E+10	4.52E-06	1.35%
118-K-1_P2_Shallow_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	7.60E+07	4.09E-12	0.84%	6.67E+08	4.66E-07	0.14%
118-K-1_P2_Shallow_11A	non-Rad	Boron	7440-42-8	ug/kg	1.85E+03	--	--	--	6.67E+11	2.77E-09	0.00%
118-K-1_P2_Shallow_11A	non-Rad	Cadmium	7440-43-9	ug/kg	1.24E+02	6.38E+13	1.94E-18	0.00%	3.33E+08	3.72E-07	0.11%
118-K-1_P2_Shallow_11A	non-Rad	Cobalt	7440-48-4	ug/kg	8.04E+03	2.03E+07	3.97E-10	81.61%	2.00E+08	4.02E-05	12.00%
118-K-1_P2_Shallow_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.67E+09	2.10E-04	62.86%
118-K-1_P2_Shallow_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	7.01E+08	1.52E-11	3.13%	3.00E+09	3.55E-06	1.06%
118-K-1_P2_Shallow_11A	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	3.33E+09	2.16E-05	6.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.86E-10**	**--**	**--**	**3.35E-04**	**--**
118-K-1_P2_Shallow_11B	non-Rad	Aluminum	7429-90-5	ug/kg	1.06E+07	--	--	--	1.67E+11	6.36E-05	16.61%
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.23E+03	4.24E+07	7.61E-11	15.66%	5.00E+08	6.45E-06	1.69%
118-K-1_P2_Shallow_11B	non-Rad	Barium	7440-39-3	ug/kg	8.71E+04	--	--	--	1.67E+10	5.22E-06	1.36%
118-K-1_P2_Shallow_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.83E+02	7.60E+07	5.05E-12	1.04%	6.67E+08	5.75E-07	0.15%
118-K-1_P2_Shallow_11B	non-Rad	Boron	7440-42-8	ug/kg	2.29E+03	--	--	--	6.67E+11	3.43E-09	0.00%
118-K-1_P2_Shallow_11B	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	6.38E+13	2.13E-18	0.00%	3.33E+08	4.08E-07	0.11%
118-K-1_P2_Shallow_11B	non-Rad	Cobalt	7440-48-4	ug/kg	7.86E+03	2.03E+07	3.88E-10	79.79%	2.00E+08	3.93E-05	10.27%
118-K-1_P2_Shallow_11B	non-Rad	Manganese	7439-96-5	ug/kg	4.04E+05	--	--	--	1.67E+09	2.42E-04	63.32%
118-K-1_P2_Shallow_11B	non-Rad	Nickel	7440-02-0	ug/kg	1.20E+04	7.01E+08	1.71E-11	3.52%	3.00E+09	4.00E-06	1.04%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11B	non-Rad	Vanadium	7440-62-2	ug/kg	6.94E+04	--	--	--	3.33E+09	2.08E-05	5.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.86E-10**	**--**	**--**	**3.83E-04**	**--**
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	1.67E+11	7.56E-05	18.11%
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	4.24E+07	8.61E-11	17.48%	5.00E+08	7.30E-06	1.75%
118-K-1_P2_Shallow_11C	non-Rad	Barium	7440-39-3	ug/kg	9.64E+04	--	--	--	1.67E+10	5.78E-06	1.39%
118-K-1_P2_Shallow_11C	non-Rad	Beryllium	7440-41-7	ug/kg	4.33E+02	7.60E+07	5.70E-12	1.16%	6.67E+08	6.49E-07	0.16%
118-K-1_P2_Shallow_11C	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	6.67E+11	3.62E-09	0.00%
118-K-1_P2_Shallow_11C	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	6.38E+13	2.29E-18	0.00%	3.33E+08	4.38E-07	0.10%
118-K-1_P2_Shallow_11C	non-Rad	Cobalt	7440-48-4	ug/kg	7.71E+03	2.03E+07	3.80E-10	77.20%	2.00E+08	3.85E-05	9.23%
118-K-1_P2_Shallow_11C	non-Rad	Manganese	7439-96-5	ug/kg	4.41E+05	--	--	--	1.67E+09	2.64E-04	63.39%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	1.00E+10	3.89E-09	0.00%
118-K-1_P2_Shallow_11C	non-Rad	Nickel	7440-02-0	ug/kg	1.44E+04	7.01E+08	2.05E-11	4.17%	3.00E+09	4.80E-06	1.15%
118-K-1_P2_Shallow_11C	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	3.33E+09	1.97E-05	4.72%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.93E-10**	**--**	**--**	**4.17E-04**	**--**
118-K-1_P2_Shallow_11D	non-Rad	Aluminum	7429-90-5	ug/kg	1.17E+07	--	--	--	1.67E+11	7.02E-05	18.12%
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	ug/kg	3.12E+03	4.24E+07	7.36E-11	16.19%	5.00E+08	6.24E-06	1.61%
118-K-1_P2_Shallow_11D	non-Rad	Barium	7440-39-3	ug/kg	8.91E+04	--	--	--	1.67E+10	5.34E-06	1.38%
118-K-1_P2_Shallow_11D	non-Rad	Beryllium	7440-41-7	ug/kg	3.95E+02	7.60E+07	5.20E-12	1.14%	6.67E+08	5.92E-07	0.15%
118-K-1_P2_Shallow_11D	non-Rad	Boron	7440-42-8	ug/kg	2.32E+03	--	--	--	6.67E+11	3.48E-09	0.00%
118-K-1_P2_Shallow_11D	non-Rad	Cadmium	7440-43-9	ug/kg	1.62E+02	6.38E+13	2.54E-18	0.00%	3.33E+08	4.86E-07	0.13%
118-K-1_P2_Shallow_11D	non-Rad	Cobalt	7440-48-4	ug/kg	7.28E+03	2.03E+07	3.59E-10	79.02%	2.00E+08	3.64E-05	9.39%
118-K-1_P2_Shallow_11D	non-Rad	Manganese	7439-96-5	ug/kg	4.09E+05	--	--	--	1.67E+09	2.45E-04	63.35%
118-K-1_P2_Shallow_11D	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	7.01E+08	1.65E-11	3.64%	3.00E+09	3.86E-06	1.00%
118-K-1_P2_Shallow_11D	non-Rad	Vanadium	7440-62-2	ug/kg	6.29E+04	--	--	--	3.33E+09	1.89E-05	4.87%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.54E-10**	**--**	**--**	**3.87E-04**	**--**
118-K-1_P2_Shallow_11E	non-Rad	Aluminum	7429-90-5	ug/kg	1.12E+07	--	--	--	1.67E+11	6.69E-05	16.57%
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	ug/kg	3.77E+03	4.24E+07	8.89E-11	17.93%	5.00E+08	7.54E-06	1.87%
118-K-1_P2_Shallow_11E	non-Rad	Barium	7440-39-3	ug/kg	9.49E+04	--	--	--	1.67E+10	5.69E-06	1.41%
118-K-1_P2_Shallow_11E	non-Rad	Beryllium	7440-41-7	ug/kg	3.79E+02	7.60E+07	4.98E-12	1.00%	6.67E+08	5.68E-07	0.14%
118-K-1_P2_Shallow_11E	non-Rad	Boron	7440-42-8	ug/kg	2.31E+03	--	--	--	6.67E+11	3.47E-09	0.00%
118-K-1_P2_Shallow_11E	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	6.38E+13	2.29E-18	0.00%	3.33E+08	4.38E-07	0.11%
118-K-1_P2_Shallow_11E	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	2.03E+07	3.86E-10	77.88%	2.00E+08	3.91E-05	9.70%
118-K-1_P2_Shallow_11E	non-Rad	Manganese	7439-96-5	ug/kg	4.32E+05	--	--	--	1.67E+09	2.59E-04	64.19%
118-K-1_P2_Shallow_11E	non-Rad	Mercury	7439-97-6	ug/kg	9.26E+00	--	--	--	1.00E+10	9.26E-10	0.00%
118-K-1_P2_Shallow_11E	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	7.01E+08	1.58E-11	3.19%	3.00E+09	3.70E-06	0.92%
118-K-1_P2_Shallow_11E	non-Rad	Vanadium	7440-62-2	ug/kg	6.85E+04	--	--	--	3.33E+09	2.05E-05	5.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.96E-10**	**--**	**--**	**4.03E-04**	**--**
118-K-1_P2_Shallow_11F	non-Rad	Aluminum	7429-90-5	ug/kg	9.42E+06	--	--	--	1.67E+11	5.65E-05	15.65%
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	4.24E+07	7.97E-11	16.02%	5.00E+08	6.76E-06	1.87%
118-K-1_P2_Shallow_11F	non-Rad	Barium	7440-39-3	ug/kg	8.34E+04	--	--	--	1.67E+10	5.00E-06	1.39%
118-K-1_P2_Shallow_11F	non-Rad	Beryllium	7440-41-7	ug/kg	3.16E+02	7.60E+07	4.16E-12	0.84%	6.67E+08	4.74E-07	0.13%
118-K-1_P2_Shallow_11F	non-Rad	Boron	7440-42-8	ug/kg	2.21E+03	--	--	--	6.67E+11	3.31E-09	0.00%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11F	non-Rad	Cadmium	7440-43-9	ug/kg	1.49E+02	6.38E+13	2.33E-18	0.00%	3.33E+08	4.47E-07	0.12%
118-K-1_P2_Shallow_11F	non-Rad	Cobalt	7440-48-4	ug/kg	8.06E+03	2.03E+07	3.98E-10	79.91%	2.00E+08	4.03E-05	11.15%
118-K-1_P2_Shallow_11F	non-Rad	Manganese	7439-96-5	ug/kg	3.74E+05	--	--	--	1.67E+09	2.25E-04	62.21%
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	1.00E+10	2.18E-09	0.00%
118-K-1_P2_Shallow_11F	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	7.01E+08	1.61E-11	3.24%	3.00E+09	3.76E-06	1.04%
118-K-1_P2_Shallow_11F	non-Rad	Vanadium	7440-62-2	ug/kg	7.75E+04	--	--	--	3.33E+09	2.32E-05	6.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.97E-10**	**--**	**--**	**3.61E-04**	**--**
118-K-1_P2_Shallow_11G	non-Rad	Aluminum	7429-90-5	ug/kg	7.17E+06	--	--	--	1.67E+11	4.30E-05	12.28%
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	ug/kg	2.69E+03	4.24E+07	6.34E-11	12.85%	5.00E+08	5.38E-06	1.54%
118-K-1_P2_Shallow_11G	non-Rad	Barium	7440-39-3	ug/kg	6.03E+04	--	--	--	1.67E+10	3.62E-06	1.03%
118-K-1_P2_Shallow_11G	non-Rad	Beryllium	7440-41-7	ug/kg	2.90E+02	7.60E+07	3.82E-12	0.77%	6.67E+08	4.35E-07	0.12%
118-K-1_P2_Shallow_11G	non-Rad	Boron	7440-42-8	ug/kg	1.34E+03	--	--	--	6.67E+11	2.01E-09	0.00%
118-K-1_P2_Shallow_11G	non-Rad	Cadmium	7440-43-9	ug/kg	1.09E+02	6.38E+13	1.71E-18	0.00%	3.33E+08	3.27E-07	0.09%
118-K-1_P2_Shallow_11G	non-Rad	Cobalt	7440-48-4	ug/kg	8.36E+03	2.03E+07	4.13E-10	83.56%	2.00E+08	4.18E-05	11.94%
118-K-1_P2_Shallow_11G	non-Rad	Manganese	7439-96-5	ug/kg	3.78E+05	--	--	--	1.67E+09	2.27E-04	64.75%
118-K-1_P2_Shallow_11G	non-Rad	Nickel	7440-02-0	ug/kg	9.76E+03	7.01E+08	1.39E-11	2.82%	3.00E+09	3.25E-06	0.93%
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	3.33E+09	2.56E-05	7.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.94E-10**	**--**	**--**	**3.50E-04**	**--**
118-K-1_P2_Shallow_11H	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	--	--	--	1.67E+11	3.90E-05	12.13%
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	4.24E+07	6.54E-11	13.99%	5.00E+08	5.54E-06	1.72%
118-K-1_P2_Shallow_11H	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.67E+10	3.33E-06	1.03%
118-K-1_P2_Shallow_11H	non-Rad	Beryllium	7440-41-7	ug/kg	2.56E+02	7.60E+07	3.37E-12	0.72%	6.67E+08	3.84E-07	0.12%
118-K-1_P2_Shallow_11H	non-Rad	Boron	7440-42-8	ug/kg	1.26E+03	--	--	--	6.67E+11	1.89E-09	0.00%
118-K-1_P2_Shallow_11H	non-Rad	Cadmium	7440-43-9	ug/kg	1.03E+02	6.38E+13	1.62E-18	0.00%	3.33E+08	3.09E-07	0.10%
118-K-1_P2_Shallow_11H	non-Rad	Cobalt	7440-48-4	ug/kg	7.81E+03	2.03E+07	3.85E-10	82.43%	2.00E+08	3.90E-05	12.13%
118-K-1_P2_Shallow_11H	non-Rad	Manganese	7439-96-5	ug/kg	3.44E+05	--	--	--	1.67E+09	2.06E-04	64.11%
118-K-1_P2_Shallow_11H	non-Rad	Nickel	7440-02-0	ug/kg	9.39E+03	7.01E+08	1.34E-11	2.86%	3.00E+09	3.13E-06	0.97%
118-K-1_P2_Shallow_11H	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	3.33E+09	2.47E-05	7.68%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.68E-10**	**--**	**--**	**3.22E-04**	**--**
118-K-1_P2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.08E+06	--	--	--	1.67E+11	4.25E-05	14.63%
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	4.24E+07	6.77E-11	16.95%	5.00E+08	5.74E-06	1.98%
118-K-1_P2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.69E+04	--	--	--	1.67E+10	3.41E-06	1.17%
118-K-1_P2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	7.60E+07	3.74E-12	0.94%	6.67E+08	4.27E-07	0.15%
118-K-1_P2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	6.67E+11	2.08E-09	0.00%
118-K-1_P2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.40E+01	6.38E+13	1.32E-18	0.00%	3.33E+08	2.52E-07	0.09%
118-K-1_P2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6.39E+03	2.03E+07	3.15E-10	78.95%	2.00E+08	3.19E-05	10.99%
118-K-1_P2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.09E+05	--	--	--	1.67E+09	1.85E-04	63.84%
118-K-1_P2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.84E+03	7.01E+08	1.26E-11	3.16%	3.00E+09	2.95E-06	1.01%
118-K-1_P2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.96E+03	--	--	--	1.33E+09	1.47E-06	0.51%
118-K-1_P2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.46E+04	--	--	--	3.33E+09	1.64E-05	5.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.99E-10**	**--**	**--**	**2.90E-04**	**--**
118-K-1_P2_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.96E+06	--	--	--	1.67E+11	4.78E-05	15.78%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	4.24E+07	6.78E-11	16.49%	5.00E+08	5.75E-06	1.90%
118-K-1_P2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.67E+10	3.75E-06	1.24%
118-K-1_P2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.05E+02	7.60E+07	4.02E-12	0.98%	6.67E+08	4.58E-07	0.15%
118-K-1_P2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	6.67E+11	2.49E-09	0.00%
118-K-1_P2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	8.53E+01	6.38E+13	1.34E-18	0.00%	3.33E+08	2.56E-07	0.08%
118-K-1_P2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6.61E+03	2.03E+07	3.26E-10	79.32%	2.00E+08	3.30E-05	10.92%
118-K-1_P2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.67E+09	1.90E-04	62.64%
118-K-1_P2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	9.29E+03	7.01E+08	1.32E-11	3.22%	3.00E+09	3.10E-06	1.02%
118-K-1_P2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.25E+03	--	--	--	1.33E+09	1.69E-06	0.56%
118-K-1_P2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.75E+04	--	--	--	3.33E+09	1.73E-05	5.70%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.11E-10**	**--**	**--**	**3.03E-04**	**--**
118-K-1_P2_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	6.79E+06	--	--	--	1.67E+11	4.07E-05	14.27%
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	4.24E+07	7.47E-11	16.58%	5.00E+08	6.33E-06	2.22%
118-K-1_P2_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	5.30E+04	--	--	--	1.67E+10	3.18E-06	1.11%
118-K-1_P2_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	7.60E+07	3.64E-12	0.81%	6.67E+08	4.15E-07	0.15%
118-K-1_P2_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	6.67E+11	1.53E-09	0.00%
118-K-1_P2_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.19E+01	6.38E+13	8.13E-19	0.00%	3.33E+08	1.56E-07	0.05%
118-K-1_P2_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.32E+03	2.03E+07	3.61E-10	80.21%	2.00E+08	3.66E-05	12.82%
118-K-1_P2_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.67E+09	1.75E-04	61.16%
118-K-1_P2_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	7.60E+03	7.01E+08	1.08E-11	2.41%	3.00E+09	2.53E-06	0.89%
118-K-1_P2_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.79E+03	--	--	--	1.33E+09	1.34E-06	0.47%
118-K-1_P2_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.53E+04	--	--	--	3.33E+09	1.96E-05	6.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.50E-10**	**--**	**--**	**2.85E-04**	**--**
118-K-1_P2_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	8.45E+06	--	--	--	1.67E+11	5.07E-05	13.75%
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	4.24E+07	6.91E-11	13.69%	5.00E+08	5.86E-06	1.59%
118-K-1_P2_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.30E+04	--	--	--	1.67E+10	4.38E-06	1.19%
118-K-1_P2_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	7.60E+07	4.55E-12	0.90%	6.67E+08	5.18E-07	0.14%
118-K-1_P2_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.61E+03	--	--	--	6.67E+11	2.41E-09	0.00%
118-K-1_P2_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	9.31E+01	6.38E+13	1.46E-18	0.00%	3.33E+08	2.79E-07	0.08%
118-K-1_P2_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.49E+03	2.03E+07	4.19E-10	83.02%	2.00E+08	4.24E-05	11.50%
118-K-1_P2_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	3.96E+05	--	--	--	1.67E+09	2.37E-04	64.39%
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	1.00E+10	5.78E-09	0.00%
118-K-1_P2_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	8.47E+03	7.01E+08	1.21E-11	2.39%	3.00E+09	2.82E-06	0.77%
118-K-1_P2_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	8.12E+04	--	--	--	3.33E+09	2.43E-05	6.60%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.05E-10**	**--**	**--**	**3.69E-04**	**--**
118-K-1_P2_Shallow_6	non-Rad	Aluminum	7429-90-5	ug/kg	7.45E+06	--	--	--	1.67E+11	4.47E-05	12.36%
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.54E+03	4.24E+07	5.99E-11	12.12%	5.00E+08	5.08E-06	1.40%
118-K-1_P2_Shallow_6	non-Rad	Barium	7440-39-3	ug/kg	1.14E+05	--	--	--	1.67E+10	6.84E-06	1.89%
118-K-1_P2_Shallow_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	7.60E+07	4.54E-12	0.92%	6.67E+08	5.17E-07	0.14%
118-K-1_P2_Shallow_6	non-Rad	Boron	7440-42-8	ug/kg	9.57E+02	--	--	--	6.67E+11	1.43E-09	0.00%
118-K-1_P2_Shallow_6	non-Rad	Cadmium	7440-43-9	ug/kg	9.10E+01	6.38E+13	1.43E-18	0.00%	3.33E+08	2.73E-07	0.08%
118-K-1_P2_Shallow_6	non-Rad	Cobalt	7440-48-4	ug/kg	8.46E+03	2.03E+07	4.17E-10	84.42%	2.00E+08	4.23E-05	11.69%
118-K-1_P2_Shallow_6	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.67E+09	2.35E-04	65.04%
118-K-1_P2_Shallow_6	non-Rad	Nickel	7440-02-0	ug/kg	8.81E+03	7.01E+08	1.26E-11	2.54%	3.00E+09	2.94E-06	0.81%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_6	non-Rad	Vanadium	7440-62-2	ug/kg	7.92E+04	--	--	--	3.33E+09	2.38E-05	6.57%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.94E-10**	**--**	**--**	**3.61E-04**	**--**
118-K-1_P2_Shallow_7	non-Rad	Aluminum	7429-90-5	ug/kg	9.46E+06	--	--	--	1.67E+11	5.67E-05	13.88%
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3.55E+03	4.24E+07	8.36E-11	14.35%	5.00E+08	7.09E-06	1.73%
118-K-1_P2_Shallow_7	non-Rad	Barium	7440-39-3	ug/kg	7.37E+04	--	--	--	1.67E+10	4.42E-06	1.08%
118-K-1_P2_Shallow_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.65E+02	7.60E+07	4.80E-12	0.82%	6.67E+08	5.47E-07	0.13%
118-K-1_P2_Shallow_7	non-Rad	Boron	7440-42-8	ug/kg	1.84E+03	--	--	--	6.67E+11	2.76E-09	0.00%
118-K-1_P2_Shallow_7	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	2.03E+07	4.77E-10	81.91%	2.00E+08	4.83E-05	11.83%
118-K-1_P2_Shallow_7	non-Rad	Manganese	7439-96-5	ug/kg	4.37E+05	--	--	--	1.67E+09	2.62E-04	64.17%
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	1.00E+10	1.29E-08	0.00%
118-K-1_P2_Shallow_7	non-Rad	Nickel	7440-02-0	ug/kg	1.19E+04	7.01E+08	1.70E-11	2.91%	3.00E+09	3.96E-06	0.97%
118-K-1_P2_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.19E+03	--	--	--	1.33E+09	1.64E-06	0.40%
118-K-1_P2_Shallow_7	non-Rad	Vanadium	7440-62-2	ug/kg	7.91E+04	--	--	--	3.33E+09	2.37E-05	5.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.83E-10**	**--**	**--**	**4.09E-04**	**--**
118-K-1_P2_Shallow_8	non-Rad	Aluminum	7429-90-5	ug/kg	7.63E+06	--	--	--	1.67E+11	4.58E-05	10.74%
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	ug/kg	3.42E+03	4.24E+07	8.07E-11	10.60%	5.00E+08	6.84E-06	1.61%
118-K-1_P2_Shallow_8	non-Rad	Barium	7440-39-3	ug/kg	7.82E+04	--	--	--	1.67E+10	4.69E-06	1.10%
118-K-1_P2_Shallow_8	non-Rad	Beryllium	7440-41-7	ug/kg	3.77E+02	7.60E+07	4.96E-12	0.65%	6.67E+08	5.65E-07	0.13%
118-K-1_P2_Shallow_8	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	6.67E+11	1.53E-09	0.00%
118-K-1_P2_Shallow_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	6.38E+13	1.82E-18	0.00%	3.33E+08	3.48E-07	0.08%
118-K-1_P2_Shallow_8	non-Rad	Cobalt	7440-48-4	ug/kg	1.34E+04	2.03E+07	6.60E-10	86.63%	2.00E+08	6.68E-05	15.67%
118-K-1_P2_Shallow_8	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.67E+09	2.72E-04	63.75%
118-K-1_P2_Shallow_8	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	7.01E+08	1.61E-11	2.12%	3.00E+09	3.77E-06	0.88%
118-K-1_P2_Shallow_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.46E+03	--	--	--	1.33E+09	1.09E-06	0.26%
118-K-1_P2_Shallow_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	3.33E+09	2.46E-05	5.77%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.61E-10**	**--**	**--**	**4.26E-04**	**--**
118-K-1_P2_Shallow_9	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	1.67E+11	6.21E-05	16.16%
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.24E+07	7.31E-11	14.24%	5.00E+08	6.20E-06	1.61%
118-K-1_P2_Shallow_9	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.67E+10	5.07E-06	1.32%
118-K-1_P2_Shallow_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.69E+02	7.60E+07	4.86E-12	0.95%	6.67E+08	5.53E-07	0.14%
118-K-1_P2_Shallow_9	non-Rad	Boron	7440-42-8	ug/kg	2.63E+03	--	--	--	6.67E+11	3.94E-09	0.00%
118-K-1_P2_Shallow_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.56E+02	6.38E+13	2.45E-18	0.00%	3.33E+08	4.69E-07	0.12%
118-K-1_P2_Shallow_9	non-Rad	Cobalt	7440-48-4	ug/kg	8.48E+03	2.03E+07	4.19E-10	81.56%	2.00E+08	4.24E-05	11.04%
118-K-1_P2_Shallow_9	non-Rad	Manganese	7439-96-5	ug/kg	4.01E+05	--	--	--	1.67E+09	2.40E-04	62.60%
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	1.00E+10	2.12E-09	0.00%
118-K-1_P2_Shallow_9	non-Rad	Nickel	7440-02-0	ug/kg	1.17E+04	7.01E+08	1.67E-11	3.26%	3.00E+09	3.91E-06	1.02%
118-K-1_P2_Shallow_9	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.72E+03	--	--	--	1.33E+09	2.04E-06	0.53%
118-K-1_P2_Shallow_9	non-Rad	Vanadium	7440-62-2	ug/kg	6.98E+04	--	--	--	3.33E+09	2.09E-05	5.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.13E-10**	**--**	**--**	**3.84E-04**	**--**
118-K-1_P2_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.04E+06	--	--	--	1.67E+11	4.22E-05	10.09%
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.98E+03	4.24E+07	9.38E-11	16.43%	5.00E+08	7.96E-06	1.90%
118-K-1_P2_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.67E+10	4.83E-06	1.15%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	7.60E+07	4.18E-12	0.73%	6.67E+08	4.77E-07	0.11%
118-K-1_P2_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	8.53E+02	--	--	--	6.67E+11	1.28E-09	0.00%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	6.38E+13	1.82E-18	0.00%	3.33E+08	3.48E-07	0.08%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.82E+03	2.03E+07	4.35E-10	76.22%	2.00E+08	4.41E-05	10.53%
118-K-1_P2_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	4.64E+05	--	--	--	1.67E+09	2.78E-04	66.50%
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	7.01E+08	3.78E-11	6.62%	3.00E+09	8.83E-06	2.11%
118-K-1_P2_Shallow_Focused_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	1.33E+09	1.73E-06	0.41%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	3.33E+09	2.97E-05	7.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.71E-10**	**--**	**--**	**4.18E-04**	**--**
118-K-1_P2_Shallow_Focused_4	non-Rad	Aluminum	7429-90-5	ug/kg	4.41E+06	--	--	--	1.67E+11	2.64E-05	9.33%
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.56E+03	4.24E+07	3.68E-11	8.59%	5.00E+08	3.12E-06	1.10%
118-K-1_P2_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.67E+10	3.12E-06	1.10%
118-K-1_P2_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	7.60E+07	3.75E-12	0.88%	6.67E+08	4.27E-07	0.15%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	7.33E+01	6.38E+13	1.15E-18	0.00%	3.33E+08	2.20E-07	0.08%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.69E+03	2.03E+07	3.79E-10	88.65%	2.00E+08	3.84E-05	13.56%
118-K-1_P2_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.67E+09	1.90E-04	66.85%
118-K-1_P2_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.64E+03	7.01E+08	8.04E-12	1.88%	3.00E+09	1.88E-06	0.66%
118-K-1_P2_Shallow_Focused_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.11E+03	--	--	--	1.33E+09	8.32E-07	0.29%
118-K-1_P2_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.50E+04	--	--	--	3.33E+09	1.95E-05	6.88%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.28E-10**	**--**	**--**	**2.83E-04**	**--**
118-K-1_P2_Shallow_Focused_5	non-Rad	Aluminum	7429-90-5	ug/kg	5.27E+06	--	--	--	1.67E+11	3.16E-05	11.48%
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	4.24E+07	3.77E-11	9.13%	5.00E+08	3.20E-06	1.16%
118-K-1_P2_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.57E+04	--	--	--	1.67E+10	3.34E-06	1.21%
118-K-1_P2_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	1.96E+02	7.60E+07	2.58E-12	0.62%	6.67E+08	2.94E-07	0.11%
118-K-1_P2_Shallow_Focused_5	non-Rad	Boron	7440-42-8	ug/kg	4.83E+02	--	--	--	6.67E+11	7.24E-10	0.00%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	6.59E+01	6.38E+13	1.03E-18	0.00%	3.33E+08	1.98E-07	0.07%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	7.39E+03	2.03E+07	3.65E-10	88.25%	2.00E+08	3.69E-05	13.42%
118-K-1_P2_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.93E+05	--	--	--	1.67E+09	1.76E-04	63.84%
118-K-1_P2_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	5.78E+03	7.01E+08	8.24E-12	1.99%	3.00E+09	1.93E-06	0.70%
118-K-1_P2_Shallow_Focused_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.27E+03	--	--	--	1.33E+09	9.48E-07	0.34%
118-K-1_P2_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.03E+04	--	--	--	3.33E+09	2.11E-05	7.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.13E-10**	**--**	**--**	**2.75E-04**	**--**
118-K-1_P2_Shallow_Focused_6	non-Rad	Aluminum	7429-90-5	ug/kg	9.10E+06	--	--	--	1.67E+11	5.46E-05	17.50%
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	3.74E+03	4.24E+07	8.82E-11	19.49%	5.00E+08	7.48E-06	2.40%
118-K-1_P2_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	8.62E+04	--	--	--	1.67E+10	5.17E-06	1.66%
118-K-1_P2_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.02E+02	7.60E+07	3.97E-12	0.88%	6.67E+08	4.53E-07	0.15%
118-K-1_P2_Shallow_Focused_6	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	6.67E+11	2.08E-09	0.00%
118-K-1_P2_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	6.71E+03	2.03E+07	3.31E-10	73.20%	2.00E+08	3.35E-05	10.75%
118-K-1_P2_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.67E+09	1.89E-04	60.57%
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	7.01E+08	2.91E-11	6.43%	3.00E+09	6.80E-06	2.18%
118-K-1_P2_Shallow_Focused_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.44E+03	--	--	--	1.33E+09	1.83E-06	0.59%
118-K-1_P2_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.39E+04	--	--	--	3.33E+09	1.32E-05	4.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.52E-10**	**--**	**--**	**3.12E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_8	non-Rad	Aluminum	7429-90-5	ug/kg	6.68E+06	--	--	--	1.67E+11	4.01E-05	11.82%
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	ug/kg	4.16E+03	4.24E+07	9.81E-11	20.83%	5.00E+08	8.32E-06	2.45%
118-K-1_P2_Shallow_Focused_8	non-Rad	Barium	7440-39-3	ug/kg	6.77E+04	--	--	--	1.67E+10	4.06E-06	1.20%
118-K-1_P2_Shallow_Focused_8	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	7.60E+07	3.68E-12	0.78%	6.67E+08	4.20E-07	0.12%
118-K-1_P2_Shallow_Focused_8	non-Rad	Boron	7440-42-8	ug/kg	7.96E+02	--	--	--	6.67E+11	1.19E-09	0.00%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	6.38E+13	1.60E-18	0.00%	3.33E+08	3.06E-07	0.09%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cobalt	7440-48-4	ug/kg	7.22E+03	2.03E+07	3.56E-10	75.67%	2.00E+08	3.61E-05	10.64%
118-K-1_P2_Shallow_Focused_8	non-Rad	Manganese	7439-96-5	ug/kg	3.69E+05	--	--	--	1.67E+09	2.21E-04	65.27%
118-K-1_P2_Shallow_Focused_8	non-Rad	Nickel	7440-02-0	ug/kg	8.98E+03	7.01E+08	1.28E-11	2.72%	3.00E+09	2.99E-06	0.88%
118-K-1_P2_Shallow_Focused_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.20E+03	--	--	--	1.33E+09	8.99E-07	0.27%
118-K-1_P2_Shallow_Focused_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	3.33E+09	2.46E-05	7.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.71E-10**	**--**	**--**	**3.39E-04**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.61E-11	10.07%	5.00E+08	5.61E-06	1.70%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Barium	7440-39-3	ug/kg	6.88E+04	--	--	--	1.67E+10	4.12E-06	1.25%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.73E+02	7.60E+07	4.91E-12	0.75%	6.67E+08	5.59E-07	0.17%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Boron	7440-42-8	ug/kg	2.65E+03	--	--	--	6.67E+11	3.97E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cadmium	7440-43-9	ug/kg	1.07E+02	6.38E+13	1.68E-18	0.00%	3.33E+08	3.21E-07	0.10%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	2.03E+07	5.70E-10	86.81%	2.00E+08	5.77E-05	17.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.67E+09	2.33E-04	70.62%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	7.01E+08	1.56E-11	2.38%	3.00E+09	3.65E-06	1.11%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	6.67E+11	1.53E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	1.33E+09	3.87E-07	0.12%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	3.33E+09	2.46E-05	7.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.57E-10**	**--**	**--**	**3.30E-04**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	ug/kg	4.05E+03	4.24E+07	9.56E-11	14.00%	5.00E+08	8.10E-06	2.19%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Barium	7440-39-3	ug/kg	7.39E+04	--	--	--	1.67E+10	4.43E-06	1.20%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.81E+02	7.60E+07	5.02E-12	0.74%	6.67E+08	5.72E-07	0.15%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Boron	7440-42-8	ug/kg	2.05E+03	--	--	--	6.67E+11	3.07E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	6.38E+13	1.60E-18	0.00%	3.33E+08	3.06E-07	0.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	2.03E+07	5.64E-10	82.64%	2.00E+08	5.71E-05	15.47%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Manganese	7439-96-5	ug/kg	4.52E+05	--	--	--	1.67E+09	2.71E-04	73.44%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	1.00E+10	8.88E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nickel	7440-02-0	ug/kg	1.26E+04	7.01E+08	1.79E-11	2.63%	3.00E+09	4.19E-06	1.13%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Selenium	7782-49-2	ug/kg	7.34E+02	--	--	--	6.67E+11	1.10E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Uranium	7440-61-1	ug/kg	5.99E+02	--	--	--	1.33E+09	4.49E-07	0.12%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Vanadium	7440-62-2	ug/kg	7.62E+04	--	--	--	3.33E+09	2.28E-05	6.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.83E-10**	**--**	**--**	**3.69E-04**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	4.24E+07	6.06E-11	8.34%	5.00E+08	5.14E-06	1.51%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.03E+04	--	--	--	1.67E+10	4.21E-06	1.24%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.49E+02	7.60E+07	5.91E-12	0.81%	6.67E+08	6.73E-07	0.20%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.27E+03	--	--	--	6.67E+11	1.91E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.21E+04	2.03E+07	5.96E-10	81.99%	2.00E+08	6.03E-05	17.72%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1.91E+03	--	--	--	4.34E+11	4.41E-09	0.00%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	2.17E+06	4.98E-11	6.86%	3.33E+09	3.24E-08	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.67E+09	2.42E-04	70.98%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	7.01E+08	1.45E-11	2.00%	3.00E+09	3.39E-06	1.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	6.67E+11	1.68E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.61E+02	--	--	--	1.33E+09	4.20E-07	0.12%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	3.33E+09	2.46E-05	7.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.27E-10**	**--**	**--**	**3.40E-04**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.24E+07	6.60E-11	10.88%	5.00E+08	5.60E-06	1.95%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.01E+05	--	--	--	1.67E+10	6.06E-06	2.11%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.20E+02	7.60E+07	5.53E-12	0.91%	6.67E+08	6.30E-07	0.22%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	6.67E+11	7.65E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	6.38E+13	1.36E-18	0.00%	3.33E+08	2.61E-07	0.09%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.06E+04	2.03E+07	5.23E-10	86.17%	2.00E+08	5.30E-05	18.48%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.67E+09	1.90E-04	66.11%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8.70E+03	7.01E+08	1.24E-11	2.04%	3.00E+09	2.90E-06	1.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	6.67E+11	3.00E-09	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.50E+02	--	--	--	1.33E+09	6.37E-07	0.22%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	3.33E+09	2.81E-05	9.79%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.07E-10**	**--**	**--**	**2.87E-04**	**--**
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.24E+07	8.72E-11	26.65%	5.00E+08	7.40E-06	13.12%
128-K-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.15E+04	--	--	--	1.67E+10	4.29E-06	7.61%
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	3.04E+09	2.73E-12	0.83%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	3.04E+08	9.54E-12	2.91%	6.67E+07	4.35E-05	77.14%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	3.04E+09	2.01E-12	0.61%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	3.04E+10	1.35E-13	0.04%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	7.60E+10	1.14E-14	0.00%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.50E+02	6.38E+13	5.48E-18	0.00%	3.33E+08	1.05E-06	1.86%
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	3.04E+11	3.62E-14	0.01%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	3.04E+08	3.95E-12	1.21%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	2.17E+06	2.21E-10	67.54%	3.33E+09	1.44E-07	0.26%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	3.04E+09	6.25E-13	0.19%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	1.00E+10	3.00E-09	0.01%
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	6.67E+11	1.20E-09	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.27E-10**	**--**	**--**	**5.64E-05**	**--**
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	1.94E+08	5.25E-08	0.01%
128-K-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.07E+06	--	--	--	1.67E+11	4.84E-05	5.12%
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.26E+03	4.24E+07	7.69E-11	0.63%	5.00E+08	6.52E-06	0.69%
128-K-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.90E+04	--	--	--	1.67E+10	4.14E-06	0.44%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	3.04E+09	8.77E-15	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	3.04E+08	9.22E-14	0.00%	6.67E+07	4.20E-07	0.04%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	3.04E+09	1.09E-14	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	3.04E+10	3.08E-16	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.19E+02	7.60E+07	6.83E-12	0.06%	6.67E+08	7.78E-07	0.08%
128-K-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	6.67E+11	2.89E-09	0.00%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.53E+02	6.38E+13	2.40E-18	0.00%	3.33E+08	4.60E-07	0.05%
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	3.04E+11	4.57E-17	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	2.03E+07	3.96E-10	3.22%	2.00E+08	4.01E-05	4.24%
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	3.04E+08	5.26E-14	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	3.04E+09	5.96E-15	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.25E+05	--	--	--	1.67E+09	1.95E-04	20.59%
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	1.00E+10	2.20E-09	0.00%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	1.36E+03	1.18E-08	95.97%	2.53E+04	6.32E-04	66.81%
128-K-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	7.01E+08	1.57E-11	0.13%	3.00E+09	3.67E-06	0.39%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	6.67E+11	1.46E-09	0.00%
128-K-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.91E+04	--	--	--	3.33E+09	1.47E-05	1.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.23E-08**	**--**	**--**	**9.46E-04**	**--**
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	1.94E+08	5.15E-08	0.02%
128-K-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.26E+06	--	--	--	1.67E+11	5.55E-05	17.21%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	3.20E+08	1.69E-14	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	3.20E+08	1.56E-13	0.03%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.30E+03	4.24E+07	7.78E-11	16.53%	5.00E+08	6.60E-06	2.04%
128-K-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.60E+04	--	--	--	1.67E+10	4.56E-06	1.41%
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	3.04E+09	3.29E-15	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	3.04E+08	3.13E-14	0.01%	6.67E+07	1.42E-07	0.04%
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	3.04E+09	4.61E-15	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	3.04E+10	2.57E-16	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.40E+02	7.60E+07	7.11E-12	1.51%	6.67E+08	8.10E-07	0.25%
128-K-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3.30E+03	--	--	--	6.67E+11	4.95E-09	0.00%
128-K-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.90E+02	6.38E+13	2.98E-18	0.00%	3.33E+08	5.70E-07	0.18%
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	3.04E+11	3.95E-17	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.40E+03	2.03E+07	3.65E-10	77.58%	2.00E+08	3.70E-05	11.46%
128-K-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.32E+05	--	--	--	1.67E+09	1.99E-04	61.70%
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	1.00E+10	1.00E-08	0.00%
128-K-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.43E+04	7.01E+08	2.04E-11	4.33%	3.00E+09	4.76E-06	1.48%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	6.67E+11	1.65E-09	0.00%
128-K-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.53E+04	--	--	--	3.33E+09	1.36E-05	4.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.71E-10**	**--**	**--**	**3.23E-04**	**--**
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	4.24E+07	6.53E-11	12.13%	5.00E+08	5.54E-06	2.12%
132-KE-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.08E+04	--	--	--	1.67E+10	3.65E-06	1.40%
132-KE-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.01E+02	7.60E+07	3.96E-12	0.74%	6.67E+08	4.51E-07	0.17%
132-KE-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.67E+01	6.38E+13	1.20E-18	0.00%	3.33E+08	2.30E-07	0.09%
132-KE-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.27E+03	2.03E+07	4.57E-10	84.93%	2.00E+08	4.63E-05	17.74%
132-KE-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.67E+09	1.85E-04	70.74%
132-KE-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.34E+03	7.01E+08	1.19E-11	2.21%	3.00E+09	2.78E-06	1.06%
132-KE-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.67E+02	--	--	--	6.67E+11	4.00E-10	0.00%
132-KE-1_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.67E+02	--	--	--	1.33E+09	3.50E-07	0.13%
132-KE-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.69E+04	--	--	--	3.33E+09	1.71E-05	6.53%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.39E-10**	**--**	**--**	**2.61E-04**	**--**

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	3.20E+08	3.75E-14	0.01%	--	--	--
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.49E+03	4.24E+07	8.23E-11	11.41%	5.00E+08	6.98E-06	1.90%
1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.84E+04	--	--	--	1.67E+10	4.70E-06	1.28%
1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.84E+02	7.60E+07	5.05E-12	0.70%	6.67E+08	5.76E-07	0.16%
1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.63E+03	--	--	--	6.67E+11	2.44E-09	0.00%
1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	2.03E+07	6.07E-10	84.17%	2.00E+08	6.15E-05	16.76%
1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.67E+09	2.64E-04	71.95%
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	1.00E+10	5.85E-09	0.00%
1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.88E+04	7.01E+08	2.68E-11	3.72%	3.00E+09	6.26E-06	1.71%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	6.67E+11	1.33E-09	0.00%
1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.68E+02	--	--	--	1.33E+09	5.01E-07	0.14%
1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.46E+04	--	--	--	3.33E+09	2.24E-05	6.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.21E-10**	**--**	**--**	**3.67E-04**	**--**
600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.29E+06	--	--	--	1.67E+11	5.57E-05	15.19%
600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.04E+04	4.24E+07	2.44E-10	34.29%	5.00E+08	2.07E-05	5.65%
600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.52E+04	--	--	--	1.67E+10	4.51E-06	1.23%
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	3.04E+08	2.20E-13	0.03%	6.67E+07	1.00E-06	0.27%
600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.53E+02	7.60E+07	8.59E-12	1.21%	6.67E+08	9.79E-07	0.27%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	7.60E+10	1.36E-15	0.00%	--	--	--
600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	6.67E+11	2.64E-09	0.00%
600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.05E+02	6.38E+13	1.65E-18	0.00%	3.33E+08	3.16E-07	0.09%
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	3.04E+11	1.51E-16	0.00%	--	--	--
600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.22E+03	2.03E+07	4.06E-10	56.98%	2.00E+08	4.11E-05	11.21%
600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.67E+09	2.09E-04	57.03%
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	1.00E+10	2.16E-09	0.00%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	7.01E+08	5.34E-11	7.50%	3.00E+09	1.25E-05	3.40%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	6.67E+11	1.48E-09	0.00%
600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.93E+04	--	--	--	3.33E+09	2.08E-05	5.67%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.12E-10**	**--**	**--**	**3.67E-04**	**--**
600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	--	--	--	1.67E+11	5.90E-05	16.90%
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.80E+03	4.24E+07	1.60E-10	27.75%	5.00E+08	1.36E-05	3.90%
600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.85E+04	--	--	--	1.67E+10	4.11E-06	1.18%
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	3.04E+09	2.37E-14	0.00%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	3.04E+08	3.95E-13	0.07%	6.67E+07	1.80E-06	0.52%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	3.04E+09	6.91E-14	0.01%	--	--	--
600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	6.20E+02	7.60E+07	8.16E-12	1.41%	6.67E+08	9.30E-07	0.27%
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	7.60E+10	1.58E-15	0.00%	--	--	--
600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	6.67E+11	3.00E-09	0.00%
600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.60E+02	6.38E+13	2.51E-18	0.00%	3.33E+08	4.80E-07	0.14%
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	3.04E+11	2.96E-16	0.00%	--	--	--
600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.90E+03	2.03E+07	3.90E-10	67.47%	2.00E+08	3.95E-05	11.32%
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	3.04E+09	3.16E-14	0.01%	--	--	--
600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.67E+09	2.08E-04	59.67%
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	1.00E+10	1.60E-09	0.00%
600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	7.01E+08	1.90E-11	3.28%	3.00E+09	4.43E-06	1.27%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	6.67E+11	1.41E-09	0.00%

Table B-3. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.62E+04	--	--	--	3.33E+09	1.69E-05	4.83%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.78E-10**	**--**	**--**	**3.49E-04**	**--**

Table B-4. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	5.48E-06	Arsenic (5.48E-06)	0.00E+00	--	5.48E-06	1.14E+00	--
100-K-102_Shallow_2	4.55E-06	Arsenic (4.55E-06)	0.00E+00	--	4.55E-06	7.55E-01	--
100-K-102_Shallow_Focused	6.76E-06	Arsenic (6.76E-06)	0.00E+00	--	6.76E-06	1.09E+00	--
100-K-105_Shallow_1	3.75E-06	Arsenic (3.75E-06)	7.63E-06	--	1.14E-05	1.03E+00	--
100-K-105_Shallow_2	3.30E-06	Arsenic (3.30E-06)	0.00E+00	--	3.30E-06	9.75E-01	--
100-K-105_Shallow_3	3.75E-06	Arsenic (3.75E-06)	0.00E+00	--	3.75E-06	1.02E+00	--
100-K-106_Shallow	1.49E-06	Arsenic (1.49E-06)	0.00E+00	--	1.49E-06	4.23E-01	--
100-K-106_Shallow_Focused_1	1.98E-06	Arsenic (1.98E-06)	0.00E+00	--	1.98E-06	5.48E-01	--
100-K-106_Shallow_Focused_2	2.22E-06	Arsenic (2.22E-06)	0.00E+00	--	2.22E-06	6.85E-01	--
100-K-106_Shallow_Focused_3	2.62E-06	Arsenic (2.62E-06)	0.00E+00	--	2.62E-06	6.69E-01	--
100-K-106_Shallow_Focused_4	1.51E-06	Arsenic (1.51E-06)	0.00E+00	--	1.51E-06	5.15E-01	--
100-K-106_Shallow_Focused_5	2.59E-06	Arsenic (2.59E-06)	0.00E+00	--	2.59E-06	6.35E-01	--
100-K-106_Shallow_Focused_6	3.00E-06	Arsenic (3.00E-06)	0.00E+00	--	3.00E-06	6.48E-01	--
100-K-109_Shallow	3.28E-06	Arsenic (3.28E-06)	4.93E-07	--	3.78E-06	7.13E-01	--
100-K-109_Shallow_Focused	2.85E-06	Arsenic (2.85E-06)	0.00E+00	--	2.85E-06	7.49E-01	--
100-K-110_Shallow	1.30E-05	Arsenic (1.30E-05)	2.15E-06	--	1.52E-05	2.15E+00	--
100-K-110_Shallow_focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.80E-02	--
100-K-14, 126-KE-2_Shallow	3.18E-06	Arsenic (3.18E-06)	0.00E+00	--	3.18E-06	1.01E+00	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	6.50E-06	Arsenic (6.50E-06)	0.00E+00	--	6.50E-06	1.00E+00	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	2.40E-06	Arsenic (2.40E-06)	0.00E+00	--	2.40E-06	7.31E-01	--
100-K-29_Shallow_Focused	3.65E-06	Arsenic (3.45E-06)	0.00E+00	--	3.65E-06	1.78E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	5.25E-06	Arsenic (5.06E-06)	1.15E-05	--	1.67E-05	7.30E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	2.50E-06	Arsenic (2.46E-06)	1.77E-06	--	4.27E-06	5.31E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	3.17E-06	Arsenic (3.16E-06)	5.01E-07	--	3.67E-06	6.60E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	3.15E-06	Arsenic (3.15E-06)	5.31E-07	--	3.68E-06	5.59E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	4.26E-06	Arsenic (4.24E-06)	4.52E-07	--	4.72E-06	5.74E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	4.62E-06	Arsenic (4.48E-06)	6.38E-07	--	5.26E-06	6.44E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	5.73E-06	Arsenic (5.55E-06)	4.88E-07	--	6.22E-06	6.31E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	4.07E-06	Arsenic (4.02E-06)	4.97E-07	--	4.56E-06	6.13E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	4.25E-06	Arsenic (4.24E-06)	5.66E-07	--	4.82E-06	6.08E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	4.64E-06	Arsenic (4.63E-06)	6.22E-07	--	5.26E-06	6.16E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	4.16E-06	Arsenic (3.91E-06)	5.44E-07	--	4.70E-06	5.98E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	4.06E-06	Arsenic (4.05E-06)	7.80E-05	--	8.20E-05	6.44E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	1.93E-06	Arsenic (1.93E-06)	6.54E-07	--	2.59E-06	4.76E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	3.69E-06	Arsenic (3.58E-06)	5.69E-07	--	4.26E-06	4.90E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	2.64E-06	Arsenic (2.56E-06)	4.94E-07	--	3.13E-06	5.27E-01	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	6.28E-06	Arsenic (5.74E-06)	1.80E-06	--	8.08E-06	7.43E-01	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	4.09E-06	Arsenic (4.09E-06)	8.51E-05	--	8.92E-05	7.16E-01	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	3.05E-06	Arsenic (3.00E-06)	9.05E-07	--	3.96E-06	8.35E-01	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	4.77E-06	Arsenic (4.65E-06)	8.64E-05	--	9.12E-05	7.71E-01	--
100-K-3_Shallow_1	4.78E-06	Arsenic (4.78E-06)	1.80E-05	--	2.27E-05	7.84E-01	--
100-K-3_Shallow_2	5.59E-06	Arsenic (5.59E-06)	3.17E-05	--	3.73E-05	7.21E-01	--

Table B-4. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-30_Shallow_Focused	3.90E-06	Arsenic (3.90E-06)	0.00E+00	--	3.90E-06	8.53E-01	--
100-K-31_Shallow_Focused	4.20E-06	Arsenic (4.20E-06)	0.00E+00	--	4.20E-06	3.55E-01	--
100-K-32_Shallow_Focused	4.50E-06	Arsenic (4.50E-06)	0.00E+00	--	4.50E-06	7.08E-01	--
100-K-33_Shallow_Focused	1.00E-05	Arsenic (1.00E-05)	0.00E+00	--	1.00E-05	5.88E-01	--
100-K-34, 100-K-102, 1607-K3_Shallow	5.50E-06	Arsenic (5.50E-06)	0.00E+00	--	5.50E-06	9.02E-01	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	2.22E-05	Arsenic (2.22E-05)	0.00E+00	--	2.22E-05	1.68E+00	--
100-K-34_Shallow	2.43E-06	Arsenic (2.43E-06)	0.00E+00	--	2.43E-06	8.49E-01	--
100-K-36_Shallow	3.66E-06	Arsenic (3.66E-06)	4.51E-07	--	4.11E-06	5.99E-01	--
100-K-4_Shallow	5.11E-06	Arsenic (5.11E-06)	4.56E-06	--	9.67E-06	7.71E-01	--
100-K-50, 1607-K2_Shallow	4.32E-06	Arsenic (4.13E-06)	0.00E+00	--	4.32E-06	8.15E-01	--
100-K-53_Shallow	1.48E-05	Arsenic (1.48E-05)	2.64E-05	--	4.12E-05	1.14E+00	--
100-K-55:1_Shallow	0.00E+00	--	4.63E-05	--	4.63E-05	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	7.58E-05	--	7.58E-05	9.64E-03	--
100-K-56:1_Shallow	0.00E+00	--	1.20E-04	--	1.20E-04	0.00E+00	--
100-K-56:1_Shallow_Focused	0.00E+00	--	1.29E-04	--	1.29E-04	9.92E-03	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	3.51E-06	Arsenic (3.51E-06)	1.67E-04	--	1.70E-04	6.62E-01	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	4.39E-06	Arsenic (4.39E-06)	1.01E-03	Carbon-14 (1.72E-04) Cesium-137 (3.52E-04) Strontium-90 (4.82E-04)	1.01E-03	8.74E-01	--
100-K-6_Shallow	3.42E-06	Arsenic (3.42E-06)	5.52E-05	--	5.87E-05	6.40E-01	--
100-K-62_Shallow	1.93E-06	Arsenic (1.93E-06)	7.81E-05	--	8.00E-05	5.80E-01	--
100-K-63_Shallow_1	4.51E-06	Arsenic (4.51E-06)	1.09E-04	--	1.13E-04	7.17E-01	--
100-K-63_Shallow_2	5.81E-06	Arsenic (5.81E-06)	2.34E-05	--	2.92E-05	6.81E-01	--
100-K-77_Shallow	1.48E-05	Arsenic (1.48E-05)	1.07E-05	--	2.55E-05	1.23E+00	--
100-K-78_Shallow_Focused	6.49E-06	Arsenic (6.49E-06)	2.31E-05	--	2.96E-05	1.10E+00	--
100-K-84_Shallow	9.59E-06	Arsenic (9.59E-06)	0.00E+00	--	9.59E-06	1.42E+00	--
100-K-85_Shallow_Focused	4.20E-06	Arsenic (4.20E-06)	0.00E+00	--	4.20E-06	1.15E+00	--
100-K-86_Shallow_Focused	4.21E-06	Arsenic (4.20E-06)	0.00E+00	--	4.21E-06	1.30E+00	--
100-K-88_Shallow_Focused	1.36E-05	Arsenic (1.36E-05)	0.00E+00	--	1.36E-05	1.07E+00	--
100-K-89, 600-29_Shallow	6.18E-06	Arsenic (6.13E-06)	0.00E+00	--	6.18E-06	1.33E+00	--
100-K-89, 600-29_Shallow_Focused	2.32E-05	Arsenic (2.31E-05)	0.00E+00	--	2.32E-05	1.97E+00	--
100-K-90_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.02E-01	--
100-K-91_Shallow_Focused	3.45E-06	Arsenic (3.45E-06)	0.00E+00	--	3.45E-06	1.04E+00	--
100-K-92_Shallow_Focused	4.35E-06	Arsenic (4.35E-06)	0.00E+00	--	4.35E-06	1.15E+00	--
100-K-95_Shallow	3.92E-08	--	0.00E+00	--	3.92E-08	1.22E-03	--
116-K-1_Shallow	0.00E+00	--	1.12E-04	--	1.12E-04	1.20E-03	--
116-K-2_Shallow_1	0.00E+00	--	3.91E-05	--	3.91E-05	1.04E-02	--
116-K-2_Shallow_2	0.00E+00	--	7.74E-05	--	7.74E-05	9.33E-03	--
116-KE-4_Shallow	0.00E+00	--	4.27E-05	--	4.27E-05	1.20E-02	--
116-KE-5_Shallow_Focused	5.55E-06	Arsenic (5.55E-06)	0.00E+00	--	5.55E-06	1.69E-01	--
116-KW-3_Shallow	0.00E+00	--	5.82E-05	--	5.82E-05	1.03E-02	--
116-KW-4_Shallow_Focused	3.90E-06	Arsenic (3.90E-06)	0.00E+00	--	3.90E-06	1.13E-01	--
118-K-1_P1_Shallow_1	4.20E-06	Arsenic (4.20E-06)	0.00E+00	--	4.20E-06	1.32E+00	--
118-K-1_P1_Shallow_2	6.43E-06	Arsenic (6.43E-06)	1.33E-05	--	1.97E-05	1.45E+00	--
118-K-1_P1_Shallow_3	4.23E-06	Arsenic (4.23E-06)	0.00E+00	--	4.23E-06	1.52E+00	--
118-K-1_P1_Shallow_4	7.95E-06	Arsenic (7.95E-06)	2.54E-04	Strontium-90 (2.43E-04)	2.62E-04	1.38E+00	--

Table B-4. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
118-K-1_P1_Shallow_5	5.56E-06	Arsenic (5.56E-06)	1.00E-04	--	1.06E-04	1.48E+00	--
118-K-1_P1_Shallow_Focused_1	7.20E-06	Arsenic (7.20E-06)	1.73E-04	--	1.81E-04	1.47E+00	--
118-K-1_P2_Shallow_1	3.63E-06	Arsenic (3.63E-06)	8.28E-06	--	1.19E-05	1.03E+00	--
118-K-1_P2_Shallow_10	5.05E-06	Arsenic (5.05E-06)	5.51E-06	--	1.06E-05	1.51E+00	--
118-K-1_P2_Shallow_11A	4.46E-06	Arsenic (4.46E-06)	3.07E-06	--	7.53E-06	1.27E+00	--
118-K-1_P2_Shallow_11B	4.84E-06	Arsenic (4.84E-06)	3.34E-06	--	8.18E-06	1.29E+00	--
118-K-1_P2_Shallow_11C	5.48E-06	Arsenic (5.48E-06)	3.23E-06	--	8.71E-06	1.32E+00	--
118-K-1_P2_Shallow_11D	4.68E-06	Arsenic (4.68E-06)	4.15E-06	--	8.83E-06	1.23E+00	--
118-K-1_P2_Shallow_11E	5.66E-06	Arsenic (5.66E-06)	5.68E-06	--	1.13E-05	1.34E+00	--
118-K-1_P2_Shallow_11F	5.07E-06	Arsenic (5.07E-06)	7.23E-06	--	1.23E-05	1.32E+00	--
118-K-1_P2_Shallow_11G	4.03E-06	Arsenic (4.03E-06)	6.03E-06	--	1.01E-05	1.32E+00	--
118-K-1_P2_Shallow_11H	4.16E-06	Arsenic (4.16E-06)	1.62E-05	--	2.03E-05	1.26E+00	--
118-K-1_P2_Shallow_2	4.30E-06	Arsenic (4.30E-06)	1.17E-05	--	1.60E-05	1.02E+00	--
118-K-1_P2_Shallow_3	4.31E-06	Arsenic (4.31E-06)	3.41E-06	--	7.73E-06	1.07E+00	--
118-K-1_P2_Shallow_4	4.75E-06	Arsenic (4.75E-06)	1.19E-05	--	1.66E-05	1.13E+00	--
118-K-1_P2_Shallow_5	4.39E-06	Arsenic (4.39E-06)	1.51E-05	--	1.95E-05	1.38E+00	--
118-K-1_P2_Shallow_6	3.81E-06	Arsenic (3.81E-06)	1.02E-05	--	1.40E-05	1.34E+00	--
118-K-1_P2_Shallow_7	5.32E-06	Arsenic (5.32E-06)	9.20E-06	--	1.45E-05	1.98E+00	--
118-K-1_P2_Shallow_8	5.13E-06	Arsenic (5.13E-06)	7.03E-06	--	1.22E-05	1.63E+00	--
118-K-1_P2_Shallow_9	4.65E-06	Arsenic (4.65E-06)	6.49E-06	--	1.11E-05	1.33E+00	--
118-K-1_P2_Shallow_Focused_3	5.97E-06	Arsenic (5.97E-06)	4.22E-06	--	1.02E-05	1.58E+00	--
118-K-1_P2_Shallow_Focused_4	2.34E-06	Arsenic (2.34E-06)	4.77E-06	--	7.11E-06	1.14E+00	--
118-K-1_P2_Shallow_Focused_5	2.40E-06	Arsenic (2.40E-06)	2.90E-06	--	5.30E-06	1.12E+00	--
118-K-1_P2_Shallow_Focused_6	5.61E-06	Arsenic (5.61E-06)	1.81E-05	--	2.37E-05	1.05E+00	--
118-K-1_P2_Shallow_Focused_8	6.24E-06	Arsenic (6.24E-06)	1.04E-06	--	7.28E-06	1.31E+00	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	3.85E-06	Arsenic (3.85E-06)	0.00E+00	--	3.85E-06	8.81E-01	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	4.20E-06	Arsenic (4.20E-06)	0.00E+00	--	4.20E-06	8.65E-01	--
128-K-1_Shallow_Focused	1.13E-05	Arsenic (5.55E-06) Benzo(a)pyrene (2.90E-06) Dibenz(a,h)anthracene (1.20E-06)	0.00E+00	--	1.13E-05	2.98E-01	--
128-K-2_Shallow	4.95E-06	Arsenic (4.89E-06)	0.00E+00	--	4.95E-06	1.16E+00	--
128-K-2_Shallow_Focused	5.07E-06	Arsenic (4.95E-06)	0.00E+00	--	5.07E-06	1.15E+00	--
132-KE-1_Shallow	4.15E-06	Arsenic (4.15E-06)	2.80E-05	--	3.21E-05	7.38E-01	--
1607-K3_Shallow	5.26E-06	Arsenic (5.23E-06)	0.00E+00	--	5.26E-06	9.29E-01	--
600-29_Shallow	1.56E-05	Arsenic (1.55E-05)	0.00E+00	--	1.56E-05	1.57E+00	--
600-29_Shallow_Focused	1.04E-05	Arsenic (1.02E-05)	0.00E+00	--	1.04E-05	1.39E+00	--

Table B-5. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	7.48E-10	--	3.37E-04	--
100-K-102_Shallow_2	5.39E-10	--	2.71E-04	--
100-K-102_Shallow_Focused	8.12E-10	--	5.05E-04	--
100-K-105_Shallow_1	5.86E-10	--	3.04E-04	--
100-K-105_Shallow_2	5.28E-10	--	2.61E-04	--
100-K-105_Shallow_3	5.21E-10	--	2.90E-04	--
100-K-106_Shallow	3.48E-10	--	1.70E-04	--
100-K-106_Shallow_Focused_1	4.49E-10	--	2.13E-04	--
100-K-106_Shallow_Focused_2	5.52E-10	--	3.17E-04	--
100-K-106_Shallow_Focused_3	5.40E-10	--	2.72E-04	--
100-K-106_Shallow_Focused_4	4.26E-10	--	2.16E-04	--
100-K-106_Shallow_Focused_5	4.97E-10	--	2.29E-04	--
100-K-106_Shallow_Focused_6	5.41E-10	--	2.71E-04	--
100-K-109_Shallow	5.66E-10	--	2.78E-04	--
100-K-109_Shallow_Focused	6.33E-10	--	2.99E-04	--
100-K-110_Shallow	8.96E-10	--	3.99E-04	--
100-K-110_Shallow_focused	2.93E-17	--	5.62E-06	--
100-K-14, 126-KE-2_Shallow	6.17E-10	--	3.36E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	8.55E-10	--	3.60E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	8.65E-10	--	2.58E-04	--
100-K-29_Shallow_Focused	1.53E-09	--	9.93E-06	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	2.93E-08	--	1.82E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	1.74E-08	--	1.12E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	5.56E-10	--	2.76E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	4.65E-10	--	2.22E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	3.22E-08	--	1.94E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	5.32E-10	--	2.62E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	5.33E-10	--	2.34E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	5.10E-10	--	2.53E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	5.16E-10	--	2.40E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	5.00E-10	--	2.61E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	4.82E-10	--	2.50E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	5.44E-10	--	2.70E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	4.27E-10	--	1.77E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	2.07E-07	--	1.13E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	2.18E-08	--	1.33E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	5.87E-10	--	2.71E-04	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	5.68E-10	--	2.75E-04	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	6.66E-10	--	3.09E-04	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	5.25E-10	--	2.55E-04	--
100-K-3_Shallow_1	6.23E-10	--	3.39E-04	--
100-K-3_Shallow_2	5.55E-10	--	2.58E-04	--
100-K-30_Shallow_Focused	3.85E-10	--	1.33E-05	--
100-K-31_Shallow_Focused	1.67E-10	--	1.86E-05	--
100-K-32_Shallow_Focused	1.77E-10	--	1.44E-05	--
100-K-33_Shallow_Focused	8.03E-10	--	2.38E-05	--
100-K-34, 100-K-102, 1607-K3_Shallow	7.36E-10	--	3.28E-04	--

Table B-5. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	9.65E-10	--	3.75E-04	--
100-K-34_Shallow	6.28E-10	--	3.45E-04	--
100-K-36_Shallow	4.72E-10	--	2.40E-04	--
100-K-4_Shallow	5.21E-10	--	2.63E-04	--
100-K-50, 1607-K2_Shallow	6.94E-10	--	3.25E-04	--
100-K-53_Shallow	8.10E-10	--	3.12E-04	--
100-K-55:1_Shallow	0.00E+00	--	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	1.73E-06	--
100-K-56:1_Shallow	0.00E+00	--	0.00E+00	--
100-K-56:1_Shallow_Focused	4.32E-10	--	1.36E-06	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	5.10E-10	--	2.60E-04	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	6.54E-10	--	3.17E-04	--
100-K-6_Shallow	4.79E-10	--	2.33E-04	--
100-K-62_Shallow	4.55E-10	--	2.21E-04	--
100-K-63_Shallow_1	6.16E-10	--	2.96E-04	--
100-K-63_Shallow_2	5.04E-10	--	2.70E-04	--
100-K-77_Shallow	8.51E-10	--	3.70E-04	--
100-K-78_Shallow_Focused	4.29E-10	--	3.03E-04	--
100-K-84_Shallow	6.24E-10	--	3.38E-04	--
100-K-85_Shallow_Focused	4.98E-10	--	3.13E-04	--
100-K-86_Shallow_Focused	5.75E-10	--	3.80E-04	--
100-K-88_Shallow_Focused	4.50E-10	--	2.65E-04	--
100-K-89, 600-29_Shallow	5.62E-10	--	3.87E-04	--
100-K-89, 600-29_Shallow_Focused	8.65E-10	--	4.20E-04	--
100-K-90_Shallow_Focused	8.24E-11	--	5.99E-05	--
100-K-91_Shallow_Focused	4.08E-10	--	2.80E-04	--
100-K-92_Shallow_Focused	6.23E-10	--	3.43E-04	--
100-K-95_Shallow	1.18E-08	--	6.32E-04	--
116-K-1_Shallow	1.20E-10	--	7.80E-08	--
116-K-2_Shallow_1	3.09E-10	--	1.57E-06	--
116-K-2_Shallow_2	1.15E-10	--	1.57E-06	--
116-KE-4_Shallow	5.58E-10	--	1.61E-06	--
116-KE-5_Shallow_Focused	2.39E-10	--	2.51E-03	--
116-KW-3_Shallow	2.50E-10	--	1.61E-06	--
116-KW-4_Shallow_Focused	1.72E-10	--	8.83E-06	--
118-K-1_P1_Shallow_1	5.00E-10	--	3.46E-04	--
118-K-1_P1_Shallow_2	6.17E-10	--	3.76E-04	--
118-K-1_P1_Shallow_3	5.75E-10	--	3.75E-04	--
118-K-1_P1_Shallow_4	5.45E-10	--	3.84E-04	--
118-K-1_P1_Shallow_5	6.34E-10	--	4.11E-04	--
118-K-1_P1_Shallow_Focused_1	6.35E-10	--	4.03E-04	--
118-K-1_P2_Shallow_1	4.36E-10	--	2.76E-04	--
118-K-1_P2_Shallow_10	5.74E-10	--	4.21E-04	--
118-K-1_P2_Shallow_11A	4.86E-10	--	3.35E-04	--
118-K-1_P2_Shallow_11B	4.86E-10	--	3.83E-04	--
118-K-1_P2_Shallow_11C	4.93E-10	--	4.17E-04	--
118-K-1_P2_Shallow_11D	4.54E-10	--	3.87E-04	--
118-K-1_P2_Shallow_11E	4.96E-10	--	4.03E-04	--
118-K-1_P2_Shallow_11F	4.97E-10	--	3.61E-04	--
118-K-1_P2_Shallow_11G	4.94E-10	--	3.50E-04	--
118-K-1_P2_Shallow_11H	4.68E-10	--	3.22E-04	--

Table B-5. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
118-K-1_P2_Shallow_2	3.99E-10	--	2.90E-04	--
118-K-1_P2_Shallow_3	4.11E-10	--	3.03E-04	--
118-K-1_P2_Shallow_4	4.50E-10	--	2.85E-04	--
118-K-1_P2_Shallow_5	5.05E-10	--	3.69E-04	--
118-K-1_P2_Shallow_6	4.94E-10	--	3.61E-04	--
118-K-1_P2_Shallow_7	5.83E-10	--	4.09E-04	--
118-K-1_P2_Shallow_8	7.61E-10	--	4.26E-04	--
118-K-1_P2_Shallow_9	5.13E-10	--	3.84E-04	--
118-K-1_P2_Shallow_Focused_3	5.71E-10	--	4.18E-04	--
118-K-1_P2_Shallow_Focused_4	4.28E-10	--	2.83E-04	--
118-K-1_P2_Shallow_Focused_5	4.13E-10	--	2.75E-04	--
118-K-1_P2_Shallow_Focused_6	4.52E-10	--	3.12E-04	--
118-K-1_P2_Shallow_Focused_8	4.71E-10	--	3.39E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	7.27E-10	--	3.40E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	6.07E-10	--	2.87E-04	--
128-K-1_Shallow_Focused	3.27E-10	--	5.64E-05	--
128-K-2_Shallow	1.23E-08	--	9.46E-04	--
128-K-2_Shallow_Focused	4.71E-10	--	3.23E-04	--
132-KE-1_Shallow	5.39E-10	--	2.61E-04	--
1607-K3_Shallow	7.21E-10	--	3.67E-04	--
600-29_Shallow	7.12E-10	--	3.67E-04	--
600-29_Shallow_Focused	5.78E-10	--	3.49E-04	--

Table B-6. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	3.85E-06	Arsenic (3.85E-06)	0.00E+00	--	3.85E-06	7.95E-01	--
100-K-106_Overburden_2	3.33E-06	Arsenic (3.33E-06)	0.00E+00	--	3.33E-06	6.62E-01	--
100-K-106_Overburden_3	3.69E-06	Arsenic (3.69E-06)	0.00E+00	--	3.69E-06	6.99E-01	--
100-K-106_Overburden_Focused_2	3.25E-06	Arsenic (3.25E-06)	0.00E+00	--	3.25E-06	6.67E-01	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	3.59E-06	Arsenic (3.59E-06)	0.00E+00	--	3.59E-06	8.73E-01	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	2.62E-06	Arsenic (2.62E-06)	0.00E+00	--	2.62E-06	9.03E-01	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	4.11E-06	Arsenic (4.11E-06)	9.32E-06	--	1.34E-05	6.77E-01	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	5.54E-06	Arsenic (5.54E-06)	0.00E+00	--	5.54E-06	7.63E-01	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	4.76E-06	Arsenic (4.76E-06)	0.00E+00	--	4.76E-06	6.64E-01	--
100-K-55:1_Overburden	0.00E+00	--	2.01E-05	--	2.01E-05	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	4.00E-06	Arsenic (4.00E-06)	6.05E-05	--	6.45E-05	7.64E-01	--
116-K-1_Overburden	0.00E+00	--	4.81E-05	--	4.81E-05	1.05E-04	--
116-K-2_Overburden	0.00E+00	--	9.23E-06	--	9.23E-06	9.66E-03	--
118-K-1_Overburden_12	4.65E-06	Arsenic (4.65E-06)	2.57E-06	--	7.22E-06	1.35E+00	--
118-K-1_Overburden_13	4.14E-06	Arsenic (4.14E-06)	1.91E-06	--	6.05E-06	1.20E+00	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	4.21E-06	Arsenic (4.21E-06)	0.00E+00	--	4.21E-06	8.66E-01	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	6.08E-06	Arsenic (6.08E-06)	0.00E+00	--	6.08E-06	9.28E-01	--

Table B-7. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	5.23E-10	--	2.61E-04	--
100-K-106_Overburden_2	5.31E-10	--	2.57E-04	--
100-K-106_Overburden_3	4.75E-10	--	2.39E-04	--
100-K-106_Overburden_Focused_2	5.29E-10	--	2.62E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	6.66E-10	--	3.33E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	7.41E-10	--	3.73E-04	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	5.28E-10	--	2.64E-04	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	5.93E-10	--	2.88E-04	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	5.11E-10	--	2.68E-04	--
100-K-55:1_Overburden	0.00E+00	--	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	5.82E-10	--	2.89E-04	--
116-K-1_Overburden	0.00E+00	--	0.00E+00	--
116-K-2_Overburden	1.34E-10	--	1.61E-06	--
118-K-1_Overburden_12	5.22E-10	--	3.70E-04	--
118-K-1_Overburden_13	4.49E-10	--	3.51E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	6.57E-10	--	3.30E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	6.83E-10	--	3.69E-04	--

Table B-8. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Deep Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Radiological Cancer Risk	Radiological Risk Drivers
100-K-3, 100-K-36, 100-K-79:7_Deep	3.36E-05	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	2.73E-04	Strontium-90 (2.72E-04)
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	2.38E-04	Strontium-90 (2.37E-04)
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	1.79E-03	Cesium-137 (1.09E-03) Strontium-90 (7.02E-04)
100-K-36_Deep_Focused	3.74E-07	--
100-K-4_Deep	2.13E-06	--
100-K-46_Deep	1.95E-04	Cesium-137 (1.41E-04)
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	1.59E-04	Strontium-90 (1.23E-04)
100-K-55:1_Deep	1.35E-04	--
100-K-56:1_Deep	1.54E-03	Cesium-137 (5.92E-04) Europium-152 (8.72E-04)
116-K-1_Deep	9.74E-04	Cesium-137 (3.41E-04) Europium-152 (1.53E-04) Strontium-90 (3.77E-04)
116-K-2_Deep_1	5.84E-03	Cesium-137 (3.19E-03) Europium-152 (1.91E-03) Europium-154 (1.39E-04) Nickel-63 (1.67E-04) Strontium-90 (3.39E-04)
116-K-2_Deep_2	6.40E-03	Cesium-137 (3.28E-03) Cobalt-60 (1.43E-04) Europium-152 (2.29E-03) Europium-154 (2.69E-04) Nickel-63 (1.11E-04) Strontium-90 (2.94E-04)
118-K-1_P2_Deep_2	2.82E-05	--
118-K-1_P2_Deep_3	9.06E-05	--
118-K-1_P2_Deep_4	8.71E-05	--
118-K-1_P2_Deep_5	7.45E-06	--
118-K-1_P2_Deep_6	3.98E-06	--
118-K-1_P2_Deep_7	5.58E-04	Cesium-137 (2.29E-04) Strontium-90 (3.22E-04)
118-K-1_P2_Deep_8	1.08E-05	--
118-K-1_P2_Deep_Focused_1	1.57E-03	Cesium-137 (2.43E-04) Strontium-90 (1.25E-03)
118-K-1_P2_Deep_Focused_2	1.86E-03	Cesium-137 (1.01E-04) Europium-152 (1.02E-03) Strontium-90 (6.58E-04)
118-K-1_P2_Deep_Focused_7	1.37E-03	Cesium-137 (8.25E-04) Strontium-90 (5.22E-04)

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.95E+02	--	--	--	3.20E+04	1.86E-02	7.67%
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	--	--	--	2.40E+05	6.21E-04	0.26%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	2.40E+04	2.12E-01	87.38%
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.93E+02	--	--	--	4.00E+05	1.48E-03	0.61%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	4.00E+05	4.31E-03	1.78%
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.76E-04	0.28%
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.89E+02	--	--	--	4.80E+07	1.43E-05	0.01%
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	1.18E+05	--	--	--	2.40E+07	4.91E-03	2.03%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.43E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	4.45E+02	--	--	--	3.20E+04	1.39E-02	18.05%
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	--	--	--	8.00E+04	1.20E-02	15.61%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	2.40E+04	5.05E-02	65.53%
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	4.80E+07	6.10E-04	0.79%
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	4.80E+07	9.97E-06	0.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.70E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.63E+02	--	--	--	3.20E+04	1.45E-02	4.89%
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	4.80E+06	9.60E-04	0.32%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.12E+07	5.79E-02	19.54%
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	8.20E+02	--	--	--	4.00E+05	2.05E-03	0.69%
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	3.82E+04	--	--	--	4.80E+07	7.96E-04	0.27%
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	7.16E+02	--	--	--	4.80E+07	1.49E-05	0.01%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	4.00E+05	2.17E-01	73.19%
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	7.84E+04	--	--	--	2.40E+07	3.27E-03	1.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.96E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	--	--	--	2.40E+05	1.21E-03	68.51%
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.60E+04	--	--	--	4.80E+07	5.42E-04	30.71%
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.60E+02	--	--	--	4.80E+07	1.38E-05	0.78%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.76E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	--	--	--	2.40E+05	9.58E-04	66.12%
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.30E+04	--	--	--	4.80E+07	4.79E-04	33.06%
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	4.80E+07	1.19E-05	0.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.45E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	--	--	--	2.40E+05	6.67E-04	51.96%
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	ug/kg	2.90E+04	--	--	--	4.80E+07	6.04E-04	47.09%
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	4.80E+07	1.23E-05	0.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.28E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	4.80E+07	6.42E-04	98.69%
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	ug/kg	4.10E+02	--	--	--	4.80E+07	8.54E-06	1.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.50E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.97E+02	--	--	--	4.00E+05	1.24E-03	65.99%
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	ug/kg	3.02E+04	--	--	--	4.80E+07	6.29E-04	33.42%
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	ug/kg	5.34E+02	--	--	--	4.80E+07	1.11E-05	0.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.88E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	ug/kg	2.96E+04	--	--	--	4.80E+07	6.17E-04	98.70%
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	ug/kg	3.91E+02	--	--	--	4.80E+07	8.15E-06	1.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.25E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.94E+04	--	--	--	4.80E+07	6.13E-04	98.59%
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.21E+02	--	--	--	4.80E+07	8.77E-06	1.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.21E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	4.80E+07	4.27E-04	98.41%
100-K-106_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.32E+02	--	--	--	4.80E+07	6.92E-06	1.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.34E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	2.19E+04	--	--	--	4.80E+07	4.56E-04	98.34%
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	3.70E+02	--	--	--	4.80E+07	7.71E-06	1.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.64E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.90E+02	--	--	--	4.00E+05	1.23E-03	74.08%
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.01E+04	--	--	--	4.80E+07	4.19E-04	25.32%
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	4.80E+07	9.96E-06	0.60%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.65E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.99E+02	--	--	--	4.00E+05	1.25E-03	69.85%
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.53E+04	--	--	--	4.80E+07	5.27E-04	29.51%
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.47E+02	--	--	--	4.80E+07	1.14E-05	0.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.79E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	1.89E+04	--	--	--	4.80E+07	3.94E-04	97.92%
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.02E+02	--	--	--	4.80E+07	8.38E-06	2.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.02E-04**	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	4.80E+07	6.21E-04	98.41%
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	4.80E+07	1.00E-05	1.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.31E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	ug/kg	2.48E+04	--	--	--	4.80E+07	5.17E-04	98.16%
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	ug/kg	4.65E+02	--	--	--	4.80E+07	9.69E-06	1.84%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.26E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	2.40E+04	3.17E-03	42.37%
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.00E+05	1.20E-03	16.07%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	4.00E+05	2.57E-03	34.37%
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	4.80E+07	5.28E-04	7.07%
100-K-109_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	4.80E+07	9.30E-06	0.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.47E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	--	--	--	2.40E+05	6.96E-04	9.04%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	2.40E+04	5.83E-04	7.57%
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.00E+05	1.20E-03	15.58%
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	4.00E+05	4.75E-03	61.68%
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.17E+04	--	--	--	4.80E+07	4.52E-04	5.87%
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	9.70E+02	--	--	--	4.80E+07	2.02E-05	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.70E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.42E+03	--	--	--	3.20E+04	1.38E-01	18.04%
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	--	--	--	2.40E+05	8.29E-04	0.11%
100-K-110_Shallow	non-Rad	Iron	7439-89-6	ug/kg	3.35E+07	--	--	--	5.60E+07	5.98E-01	78.19%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	2.40E+04	1.80E-02	2.35%
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.87E+02	--	--	--	4.00E+05	1.47E-03	0.19%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	4.00E+05	4.53E-03	0.59%
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.03E+04	--	--	--	4.80E+07	8.39E-04	0.11%
100-K-110_Shallow	non-Rad	Tin	7440-31-5	ug/kg	9.94E+02	--	--	--	4.80E+07	2.07E-05	0.00%
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	7.65E+04	--	--	--	2.40E+07	3.19E-03	0.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.65E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	--	--	--	8.00E+04	2.34E-02	83.61%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	2.40E+04	4.58E-03	16.39%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.80E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.15E+03	--	--	--	3.20E+04	1.30E-01	31.11%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	--	--	--	1.60E+05	1.02E-02	2.45%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	1.60E+07	6.63E-04	0.16%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	2.40E+04	2.05E-02	4.91%
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.22E+03	--	--	--	4.00E+05	3.06E-03	0.73%
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	4.00E+05	2.85E-03	0.68%
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	9.58E+02	--	--	--	4.00E+05	2.40E-03	0.57%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.00E+05	2.48E-01	59.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.17E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Molybdenum	7439-98-7	ug/kg	5.74E+02	--	--	--	4.00E+05	1.43E-03	18.15%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	4.00E+05	5.88E-03	74.36%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	4.80E+07	5.80E-04	7.34%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Tin	7440-31-5	ug/kg	5.83E+02	--	--	--	4.80E+07	1.21E-05	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.90E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	--	--	--	2.40E+05	7.25E-04	0.28%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	2.40E+04	1.00E-02	3.92%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.00E+05	1.83E-03	0.71%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	4.00E+05	6.00E-03	2.34%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Strontium	7440-24-6	ug/kg	2.79E+04	--	--	--	4.80E+07	5.82E-04	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Tin	7440-31-5	ug/kg	6.72E+02	--	--	--	4.80E+07	1.40E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	4.00E+05	2.37E-01	92.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.56E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	--	--	--	2.40E+05	9.70E-04	0.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	2.40E+04	2.83E-03	1.24%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.22E+02	--	--	--	4.00E+05	1.56E-03	0.68%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	4.00E+05	2.64E-03	1.16%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.43E+04	--	--	--	4.80E+07	7.15E-04	0.31%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	6.26E+02	--	--	--	4.80E+07	1.30E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	4.00E+05	2.19E-01	96.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.28E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	--	--	--	2.40E+05	3.18E-03	15.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	2.40E+04	1.21E-02	56.92%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	5.10E+02	--	--	--	4.00E+05	1.28E-03	6.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	4.00E+05	4.25E-03	20.02%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	4.80E+07	4.27E-04	2.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	4.80E+07	1.00E-05	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.12E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	5.00E+02	1.96E-07	100.00%	1.60E+03	6.13E-02	79.68%
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.47E+04	--	--	--	1.20E+08	2.06E-04	0.27%
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	--	--	--	2.40E+05	1.33E-02	17.34%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	2.40E+04	2.08E-03	2.71%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.96E-07**	--	--	**7.69E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.96E-07**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Americium-241	14596-10-2	pCi/g	2.48E-02	1.53E+02	1.62E-08	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.74E-02	2.03E+02	1.35E-08	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep	Rad	Strontium-90	10098-97-2	pCi/g	7.20E-01	2.28E+00	3.16E-05	99.91%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**3.16E-05**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	6.20E+00	2.28E+00	2.72E-04	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.72E-04**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Americium-241	14596-10-2	pCi/g	1.80E-01	1.53E+02	1.18E-07	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	2.36E+02	1.53E-08	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.40E-01	2.03E+02	6.90E-08	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	Rad	Strontium-90	10098-97-2	pCi/g	5.40E+00	2.28E+00	2.37E-04	99.91%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.37E-04**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.60E+02	--	--	--	4.80E+06	3.33E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	2.10E+00	--	--	--	2.40E+07	8.75E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.74E+02	--	--	--	3.20E+04	1.17E-02	39.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	5.00E+02	3.40E-08	18.06%	1.60E+03	1.06E-02	36.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	5.00E+02	4.80E-08	25.49%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	1.00E+04	4.90E-09	2.60%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	1.00E+03	4.90E-08	26.02%	2.40E+04	2.04E-03	6.93%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	1.00E+04	7.30E-09	3.88%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	1.00E+05	3.20E-10	0.17%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	1.00E+06	7.50E-11	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	1.00E+03	4.20E-08	22.30%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.81E+01	--	--	--	3.20E+06	2.75E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.30E+00	--	--	--	3.20E+06	1.97E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	--	--	--	2.40E+05	4.25E-04	1.44%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	1.00E+04	2.70E-09	1.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	2.40E+04	2.09E-03	7.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.00E+05	1.83E-03	6.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	--	--	--	1.60E+06	2.44E-05	0.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.40E+06	2.75E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.11E+04	--	--	--	4.80E+07	6.47E-04	2.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.03E+02	--	--	--	4.80E+07	1.05E-05	0.04%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.88E-07**	--	--	**2.95E-02**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	3.10E-02	1.53E+02	2.03E-08	0.48%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.50E-01	3.60E+00	4.17E-06	99.20%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.72E-02	2.03E+02	1.34E-08	0.32%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**4.20E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**4.39E-06**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	ug/kg	4.90E+01	--	--	--	4.80E+06	1.02E-05	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	5.00E+02	2.40E-08	67.94%	1.60E+03	7.50E-03	89.45%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	1.00E+04	1.10E-09	3.11%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	1.00E+03	8.10E-09	22.93%	2.40E+04	3.38E-04	4.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	1.00E+04	1.50E-09	4.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	1.00E+05	7.60E-11	0.22%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.00E+06	1.80E-11	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	3.20E+06	7.50E-06	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	1.00E+04	5.30E-10	1.50%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	--	--	--	1.60E+06	1.44E-05	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.40E+06	7.92E-06	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.40E+04	--	--	--	4.80E+07	5.00E-04	5.96%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	3.45E+02	--	--	--	4.80E+07	7.19E-06	0.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.53E-08**	--	--	**8.38E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**3.53E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	1.00E+03	1.00E-09	100.00%	2.40E+04	4.17E-05	5.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	4.50E+00	--	--	--	3.20E+06	1.41E-06	0.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	4.80E+07	6.58E-04	92.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	4.80E+07	9.29E-06	1.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.00E-09**	--	--	**7.11E-04**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.10E-02	1.53E+02	1.37E-08	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.37E-08**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.47E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	2.55E+04	--	--	--	4.80E+07	5.31E-04	98.44%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.04E+02	--	--	--	4.80E+07	8.42E-06	1.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.40E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	ug/kg	6.40E+01	--	--	--	4.80E+06	1.33E-05	1.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	1.00E+04	1.30E-09	7.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	1.00E+03	1.40E-08	77.47%	2.40E+04	5.83E-04	45.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	1.00E+04	1.90E-09	10.51%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	1.00E+05	8.10E-11	0.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	1.00E+06	2.10E-11	0.12%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+01	--	--	--	3.20E+06	1.03E-05	0.80%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	3.20E+06	1.38E-06	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	1.00E+04	7.70E-10	4.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	--	--	--	1.60E+06	2.69E-05	2.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.40E+06	9.58E-06	0.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	ug/kg	3.07E+04	--	--	--	4.80E+07	6.40E-04	49.52%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	ug/kg	3.41E+02	--	--	--	4.80E+07	7.10E-06	0.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.81E-08**	--	--	**1.29E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.81E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	ug/kg	2.10E+02	--	--	--	4.80E+06	4.38E-05	1.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	1.00E+04	6.70E-09	5.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	1.00E+03	6.20E-08	46.63%	2.40E+04	2.58E-03	75.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	1.00E+04	8.80E-09	6.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	1.00E+05	3.80E-10	0.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	1.00E+06	8.10E-11	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	1.00E+03	5.10E-08	38.36%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	ug/kg	8.10E+01	--	--	--	3.20E+06	2.53E-05	0.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	1.00E+04	4.00E-09	3.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	ug/kg	7.70E+01	--	--	--	2.40E+06	3.21E-05	0.94%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	4.80E+07	7.10E-04	20.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	ug/kg	3.98E+02	--	--	--	4.80E+07	8.29E-06	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.33E-07**	--	--	**3.40E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.33E-07**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	ug/kg	5.50E+02	--	--	--	4.80E+06	1.15E-04	0.69%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	ug/kg	1.20E+01	--	--	--	2.40E+07	5.00E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	ug/kg	3.19E+02	--	--	--	3.20E+04	9.97E-03	59.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	1.00E+04	9.90E-09	5.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	1.00E+03	1.10E-07	61.80%	2.40E+04	4.58E-03	27.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	1.00E+04	1.50E-08	8.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	1.00E+05	6.30E-10	0.35%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	1.00E+06	1.70E-10	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	1.00E+03	3.50E-08	19.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	ug/kg	2.10E+02	--	--	--	3.20E+06	6.56E-05	0.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	1.00E+04	7.30E-09	4.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.00E+05	1.21E-03	7.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	ug/kg	1.30E+02	--	--	--	2.40E+06	5.42E-05	0.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	ug/kg	3.05E+04	--	--	--	4.80E+07	6.35E-04	3.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	ug/kg	9.83E+02	--	--	--	4.80E+07	2.05E-05	0.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.78E-07**	--	--	**1.67E-02**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	1.53E+02	1.44E-08	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.44E-08**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.92E-07**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+02	--	--	--	4.80E+06	6.46E-05	3.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	1.00E+04	6.50E-09	14.21%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	1.00E+03	3.10E-08	67.78%	2.40E+04	1.29E-03	61.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	1.00E+04	5.70E-09	12.46%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	1.00E+05	2.50E-10	0.55%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	1.00E+06	8.70E-11	0.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	3.20E+06	4.69E-05	2.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	1.00E+04	2.20E-09	4.81%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	ug/kg	1.00E+02	--	--	--	2.40E+06	4.17E-05	1.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	ug/kg	3.12E+04	--	--	--	4.80E+07	6.50E-04	30.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	ug/kg	4.12E+02	--	--	--	4.80E+07	8.58E-06	0.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.57E-08**	--	--	**2.10E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**4.57E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	ug/kg	2.70E+01	--	--	--	4.80E+06	5.63E-06	0.75%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	1.00E+04	5.30E-10	14.49%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	1.00E+03	2.40E-09	65.60%	2.40E+04	1.00E-04	13.38%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	1.00E+04	5.60E-10	15.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	1.00E+05	1.90E-11	0.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	1.00E+06	9.30E-12	0.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	ug/kg	1.60E+01	--	--	--	3.20E+06	5.00E-06	0.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	1.00E+04	1.40E-10	3.83%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	ug/kg	9.10E+00	--	--	--	2.40E+06	3.79E-06	0.51%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	ug/kg	3.00E+04	--	--	--	4.80E+07	6.25E-04	83.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	ug/kg	3.76E+02	--	--	--	4.80E+07	7.83E-06	1.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.66E-09**	--	--	**7.47E-04**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	1.53E+02	1.44E-08	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.44E-08**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.80E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	1.00E+03	1.10E-09	100.00%	2.40E+04	4.58E-05	6.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	ug/kg	5.20E+00	--	--	--	3.20E+06	1.63E-06	0.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	ug/kg	2.80E+00	--	--	--	2.40E+06	1.17E-06	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	ug/kg	2.99E+04	--	--	--	4.80E+07	6.23E-04	91.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	ug/kg	3.99E+02	--	--	--	4.80E+07	8.31E-06	1.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.10E-09**	--	--	**6.80E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.10E-09**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	ug/kg	1.40E+03	--	--	--	4.80E+06	2.92E-04	4.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	1.00E+04	2.80E-08	11.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.00E+03	1.20E-07	49.06%	2.40E+04	5.00E-03	74.45%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.00E+04	2.10E-08	8.59%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	1.00E+05	9.60E-10	0.39%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	1.60E+07	3.12E-04	4.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	1.00E+06	3.50E-10	0.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	1.00E+03	6.80E-08	27.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	ug/kg	8.80E+02	--	--	--	3.20E+06	2.75E-04	4.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	ug/kg	1.00E+02	--	--	--	3.20E+06	3.13E-05	0.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	1.00E+04	6.30E-09	2.58%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+02	--	--	--	2.40E+06	2.46E-04	3.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	ug/kg	2.65E+04	--	--	--	4.80E+07	5.52E-04	8.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	ug/kg	4.03E+02	--	--	--	4.80E+07	8.40E-06	0.13%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.45E-07**	--	--	**6.72E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.45E-07**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+01	--	--	--	4.80E+06	6.46E-06	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	ug/kg	4.60E+00	--	--	--	2.40E+07	1.92E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	1.00E+04	7.90E-10	6.64%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	1.00E+03	7.50E-09	63.05%	2.40E+04	3.13E-04	30.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	1.00E+04	1.10E-09	9.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	1.00E+05	4.50E-11	0.38%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	1.00E+06	1.90E-09	15.97%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	3.20E+06	7.50E-06	0.73%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	ug/kg	4.10E+00	--	--	--	3.20E+06	1.28E-06	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	1.00E+04	5.60E-10	4.71%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+01	--	--	--	2.40E+06	2.46E-05	2.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	4.80E+07	6.67E-04	64.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	ug/kg	4.31E+02	--	--	--	4.80E+07	8.98E-06	0.87%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.19E-08**	--	--	**1.03E-03**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	pCi/g	7.00E-02	1.53E+02	4.58E-08	0.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.20E-01	2.03E+02	5.91E-08	0.09%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+00	2.28E+00	6.58E-05	99.84%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**6.59E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**6.59E-05**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	ug/kg	5.70E+00	--	--	--	3.20E+06	1.78E-06	0.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	ug/kg	2.16E+04	--	--	--	4.80E+07	4.50E-04	98.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	ug/kg	2.83E+02	--	--	--	4.80E+07	5.90E-06	1.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.58E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	ug/kg	4.10E+02	--	--	--	4.80E+06	8.54E-05	2.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	ug/kg	2.90E+01	--	--	--	2.40E+07	1.21E-06	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	1.00E+04	1.50E-08	14.71%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	1.00E+03	7.10E-08	69.64%	2.40E+04	2.96E-03	73.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	1.00E+04	1.20E-08	11.77%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	1.00E+05	5.60E-10	0.55%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	1.00E+06	2.00E-10	0.20%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+02	--	--	--	3.20E+06	1.03E-04	2.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	3.20E+06	1.38E-06	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	1.00E+04	3.20E-09	3.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	--	--	--	1.60E+06	1.75E-04	4.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	ug/kg	2.20E+02	--	--	--	2.40E+06	9.17E-05	2.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	4.80E+07	6.21E-04	15.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	ug/kg	2.84E+02	--	--	--	4.80E+07	5.92E-06	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.02E-07**	--	--	**4.04E-03**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	pCi/g	3.00E-02	1.53E+02	1.96E-08	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.96E-08**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.22E-07**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	ug/kg	5.80E+01	--	--	--	4.80E+06	1.21E-05	0.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	5.00E+02	5.60E-08	78.40%	1.60E+03	1.75E-02	94.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	1.00E+04	1.20E-09	1.68%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	1.00E+03	1.20E-08	16.80%	2.40E+04	5.00E-04	2.70%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.00E+04	1.40E-09	1.96%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	1.00E+05	6.90E-11	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.00E+06	1.80E-11	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	3.20E+06	9.06E-06	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	ug/kg	4.50E+00	--	--	--	3.20E+06	1.41E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	1.00E+04	7.40E-10	1.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	--	--	--	1.60E+06	1.81E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.40E+06	9.58E-06	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	ug/kg	2.32E+04	--	--	--	4.80E+07	4.83E-04	2.61%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	ug/kg	3.18E+02	--	--	--	4.80E+07	6.63E-06	0.04%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**7.14E-08**	--	--	**1.85E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**7.14E-08**	--	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	ug/kg	3.92E+02	--	--	--	3.20E+04	1.23E-02	78.70%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	5.00E+02	5.00E-07	93.86%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	1.00E+04	3.60E-09	0.68%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	1.00E+03	2.30E-08	4.32%	2.40E+04	9.58E-04	6.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	1.00E+04	3.50E-09	0.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	1.00E+05	1.50E-10	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	1.00E+06	4.10E-11	0.01%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	ug/kg	8.90E+01	--	--	--	3.20E+06	2.78E-05	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	1.00E+04	2.40E-09	0.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	ug/kg	6.25E+02	--	--	--	4.00E+05	1.56E-03	10.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.40E+06	2.75E-05	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	ug/kg	3.49E+04	--	--	--	4.80E+07	7.27E-04	4.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	ug/kg	5.72E+02	--	--	--	4.80E+07	1.19E-05	0.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**5.33E-07**	**--**	**--**	**1.56E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**5.33E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	3.60E-01	1.53E+02	2.35E-07	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	4.80E+01	4.40E+00	1.09E-03	60.84%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	6.10E-02	2.36E+02	2.58E-08	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.80E-01	2.03E+02	2.86E-07	0.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.60E+01	2.28E+00	7.02E-04	39.13%	--	--	--
Total Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**1.79E-03**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	2.40E+04	1.27E-03	65.18%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	4.80E+07	6.67E-04	34.34%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.42E+02	--	--	--	4.80E+07	9.22E-06	0.47%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**0.00E+00**	**--**	**--**	**1.94E-03**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	pCi/g	3.80E-02	1.53E+02	2.48E-08	0.58%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	4.20E-02	3.10E+00	1.35E-06	31.91%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.02E-01	3.60E+00	2.84E-06	66.86%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	pCi/g	9.20E-02	3.35E+02	2.75E-08	0.65%	--	--	--
Total Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**4.25E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**4.25E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.93E+02	--	--	--	3.20E+04	6.03E-03	89.65%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.30E+04	--	--	--	4.80E+07	6.86E-04	10.20%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.56E+02	--	--	--	4.80E+07	9.51E-06	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**0.00E+00**	**--**	**--**	**6.73E-03**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	pCi/g	9.15E-02	1.53E+02	5.98E-08	0.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.60E+00	4.40E+00	3.64E-05	43.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	3.10E+00	1.23E-06	1.45%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.79E-01	3.60E+00	7.76E-06	9.18%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	2.64E-02	2.36E+02	1.12E-08	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.59E-01	2.03E+02	7.81E-08	0.09%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	8.90E-01	2.28E+00	3.90E-05	46.18%	--	--	--
Total Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**8.45E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**8.45E-05**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Anthracene	120-12-7	ug/kg	2.20E+00	--	--	--	2.40E+07	9.17E-08	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	5.00E+02	4.40E-08	84.24%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	1.00E+04	7.30E-10	1.40%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	1.00E+03	6.40E-09	12.25%	2.40E+04	2.67E-04	5.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	1.00E+04	7.60E-10	1.46%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	1.00E+05	2.90E-11	0.06%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.00E+06	1.20E-11	0.02%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	1.80E+01	--	--	--	3.20E+06	5.63E-06	0.11%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	1.00E+04	3.00E-10	0.57%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.40E+06	7.92E-06	0.15%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	4.00E+05	4.50E-03	84.56%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	4.80E+07	5.29E-04	9.94%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	4.80E+07	1.23E-05	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.22E-08**	--	--	**5.32E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.22E-08**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+03	--	--	--	3.20E+04	3.75E-02	65.49%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	5.00E+02	4.20E-08	33.93%	1.60E+03	1.31E-02	22.92%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	5.00E+02	2.40E-08	19.39%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	1.00E+04	5.00E-09	4.04%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	1.00E+03	4.80E-08	38.78%	2.40E+04	2.00E-03	3.49%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	1.00E+04	4.70E-09	3.80%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	1.00E+06	7.30E-11	0.06%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	3.20E+06	4.69E-05	0.08%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	4.00E+05	4.00E-03	6.99%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	4.80E+07	5.79E-04	1.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	4.80E+07	1.19E-05	0.02%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.24E-07**	--	--	**5.73E-02**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.26E-01	1.53E+02	1.48E-07	0.17%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Cesium-137	10045-97-3	pCi/g	1.61E+00	4.40E+00	3.66E-05	43.09%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	3.60E+00	6.25E-06	7.36%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Strontium-90	10098-97-2	pCi/g	9.56E-01	2.28E+00	4.19E-05	49.38%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**8.49E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**8.50E-05**	--	--	--	--
100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.54E+02	--	--	--	3.20E+04	1.73E-02	95.99%
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	4.80E+07	7.10E-04	3.94%
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.36E+02	--	--	--	4.80E+07	1.33E-05	0.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.80E-02**	--
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	3.50E-02	1.53E+02	2.29E-08	0.19%	--	--	--
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	4.40E-01	3.60E+00	1.22E-05	99.62%	--	--	--
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.70E-02	2.03E+02	2.32E-08	0.19%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.23E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.23E-05**	--	--	--	--
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.77E-04	98.54%
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	4.80E+07	1.00E-05	1.46%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.87E-04**	--
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.40E-02	2.03E+02	2.66E-08	0.09%	--	--	--
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E-01	2.28E+00	2.94E-05	99.91%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.94E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.94E-05**	--	--	--	--
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	--	--	--	8.00E+04	8.00E-03	1.08%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	--	--	--	2.40E+05	2.93E-03	0.40%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	2.40E+04	7.29E-01	98.52%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.40E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.60E+07	1.06E-02	4.45%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	--	--	--	8.00E+04	9.38E-03	3.95%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	--	--	--	2.40E+05	9.17E-04	0.39%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	2.40E+04	2.17E-01	91.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.38E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	--	--	--	2.40E+05	9.58E-04	0.17%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	2.40E+04	5.71E-01	99.83%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.72E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	--	--	--	8.00E+04	1.25E-02	4.14%
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.29E+04	--	--	--	1.20E+08	1.91E-04	0.06%
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	--	--	--	2.40E+05	5.83E-03	1.93%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	2.40E+04	2.83E-01	93.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.02E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	ug/kg	5.55E+02	--	--	--	3.20E+04	1.73E-02	74.59%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	2.40E+04	5.17E-03	22.22%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	ug/kg	3.50E+04	--	--	--	4.80E+07	7.30E-04	3.14%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	ug/kg	6.02E+02	--	--	--	4.80E+07	1.25E-05	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.33E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	ug/kg	1.73E+02	--	--	--	3.20E+04	5.41E-03	88.55%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	ug/kg	3.31E+04	--	--	--	4.80E+07	6.90E-04	11.30%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	ug/kg	4.39E+02	--	--	--	4.80E+07	9.15E-06	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.11E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.17E+02	--	--	--	3.20E+04	1.30E-02	28.87%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.35E+04	--	--	--	3.20E+06	7.33E-03	16.24%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	--	--	--	2.40E+05	5.17E-04	1.14%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	2.40E+04	7.88E-03	17.45%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	9.67E+02	--	--	--	4.00E+05	2.42E-03	5.35%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	--	--	--	1.60E+06	1.32E-02	29.32%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.37E+04	--	--	--	4.80E+07	7.02E-04	1.56%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	1.62E+03	--	--	--	4.80E+07	3.38E-05	0.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.51E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	7.70E+03	--	--	--	3.20E+04	2.41E-01	47.76%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	--	--	--	8.00E+04	1.19E-02	2.36%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.05E+04	--	--	--	3.20E+06	9.53E-03	1.89%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	4.80E+06	1.60E-03	0.32%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.40E+04	4.17E-03	0.83%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.20E+02	--	--	--	4.00E+05	1.55E-03	0.31%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	4.00E+05	5.50E-03	1.09%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	6.04E+04	--	--	--	4.80E+07	1.26E-03	0.25%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2.80E+03	--	--	--	4.80E+07	5.83E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	4.00E+05	2.23E-01	44.26%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.12E+05	--	--	--	2.40E+07	4.67E-03	0.93%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.04E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.00E+05	1.60E-03	0.67%
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	4.00E+05	2.28E-03	0.95%
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.56E+04	--	--	--	4.80E+07	5.33E-04	0.22%
100-K-34_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	4.80E+07	1.00E-05	0.00%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	4.00E+05	2.36E-01	98.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.40E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	4.80E+07	6.77E-04	98.63%
100-K-36_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.52E+02	--	--	--	4.80E+07	9.42E-06	1.37%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.87E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.20E+02	--	--	--	3.20E+04	1.00E-02	59.00%
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	1.60E+07	1.05E-03	6.20%
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.00E+05	1.21E-03	7.12%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	4.00E+05	3.78E-03	22.27%
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.35E+04	--	--	--	4.80E+07	9.07E-04	5.35%
100-K-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.16E+02	--	--	--	4.80E+07	1.08E-05	0.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.69E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-46_Deep	Rad	Americium-241	14596-10-2	pCi/g	4.30E-01	1.53E+02	2.81E-07	0.14%	--	--	--
100-K-46_Deep	Rad	Carbon-14	14762-75-5	pCi/g	7.57E+00	8.10E+01	9.35E-06	4.81%	--	--	--
100-K-46_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.20E+00	4.40E+00	1.41E-04	72.58%	--	--	--
100-K-46_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	6.10E-02	2.36E+02	2.58E-08	0.01%	--	--	--
100-K-46_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.30E-01	2.03E+02	1.63E-07	0.08%	--	--	--
100-K-46_Deep	Rad	Strontium-90	10098-97-2	pCi/g	9.90E-01	2.28E+00	4.34E-05	22.37%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.94E-04**	--	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	1.53E+02	1.11E-07	0.08%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	5.00E-02	3.10E+00	1.61E-06	1.12%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Europium-152	14683-23-9	pCi/g	6.80E-01	3.60E+00	1.89E-05	13.16%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	3.50E-02	2.36E+02	1.48E-08	0.01%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.30E-01	2.03E+02	1.13E-07	0.08%	--	--	--
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	Rad	Strontium-90	10098-97-2	pCi/g	2.80E+00	2.28E+00	1.23E-04	85.55%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.44E-04**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	7.82E+00	--	--	--	4.80E+06	1.63E-06	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.55E+01	--	--	--	2.40E+07	6.47E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.96E+03	--	--	--	3.20E+04	6.13E-02	74.32%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	5.00E+02	1.05E-08	5.39%	1.60E+03	3.28E-03	3.98%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	5.00E+02	4.71E-09	2.42%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	1.00E+04	1.69E-08	8.68%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	1.00E+03	1.07E-07	54.93%	2.40E+04	4.46E-03	5.41%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	1.00E+04	1.81E-08	9.29%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	1.00E+05	2.72E-10	0.14%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	1.60E+07	5.63E-04	0.68%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	1.00E+06	2.08E-10	0.11%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	1.00E+03	3.01E-08	15.45%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	2.25E+02	--	--	--	3.20E+06	7.03E-05	0.09%
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.28E+00	--	--	--	3.20E+06	1.96E-06	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	--	--	--	2.40E+05	1.59E-03	1.94%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	1.00E+04	7.03E-09	3.61%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	2.40E+04	5.25E-03	6.37%
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.65E+02	--	--	--	4.00E+05	1.41E-03	1.71%
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2.23E+02	--	--	--	2.40E+06	9.29E-05	0.11%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	4.00E+05	2.47E-03	3.00%
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	7.85E+02	--	--	--	4.00E+05	1.96E-03	2.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.95E-07**	--	--	**8.24E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.95E-07**	--	--	--	--
100-K-53_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.82E+04	--	--	--	3.20E+06	8.82E-03	61.05%
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	--	--	--	2.40E+05	4.25E-04	2.94%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	2.40E+04	2.41E-03	16.66%
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	8.69E+02	--	--	--	4.00E+05	2.17E-03	15.04%
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	4.80E+07	6.11E-04	4.23%
100-K-53_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.09E+02	--	--	--	4.80E+07	1.06E-05	0.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.44E-02**	--
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.16E+00	4.40E+00	2.64E-05	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.64E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.64E-05**	--	--	--	--
100-K-55:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.85E+00	4.40E+00	8.75E-05	64.94%	--	--	--
100-K-55:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	5.93E-01	3.10E+00	1.91E-05	14.20%	--	--	--
100-K-55:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	7.82E-01	3.60E+00	2.17E-05	16.11%	--	--	--
100-K-55:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.88E-01	4.50E+00	6.40E-06	4.75%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.35E-04**	--	--	--	--
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	2.74E-02	3.10E+00	8.85E-07	7.18%	--	--	--
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	3.33E-01	3.60E+00	9.25E-06	75.05%	--	--	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	pCi/g	9.86E-02	4.50E+00	2.19E-06	17.77%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.23E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.23E-05**	--	--	--	--
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.86E-01	3.10E+00	6.00E-06	15.07%	--	--	--
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.03E+00	3.60E+00	2.87E-05	72.02%	--	--	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.31E-01	4.50E+00	5.14E-06	12.91%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate	--	--	--	--	--	--	**3.98E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**3.98E-05**	--	--	--	--
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.10E-01	3.10E+00	3.55E-06	5.93%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.30E+00	3.60E+00	3.61E-05	60.32%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.87E-01	4.50E+00	4.16E-06	6.94%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	3.66E-01	2.28E+00	1.61E-05	26.81%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.99E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.99E-05**	--	--	--	--
100-K-56:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.61E+01	4.40E+00	5.92E-04	38.37%	--	--	--
100-K-56:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.07E+00	3.10E+00	3.46E-05	2.24%	--	--	--
100-K-56:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.14E+01	3.60E+00	8.72E-04	56.52%	--	--	--
100-K-56:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.99E+00	4.50E+00	4.43E-05	2.87%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.54E-03**	--	--	--	--
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.41E-01	3.10E+00	4.55E-06	4.69%	--	--	--
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	3.33E+00	3.60E+00	9.25E-05	95.31%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.70E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.70E-05**	--	--	--	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	--	--	--	2.40E+05	3.90E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.90E-03**	--
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.49E-01	3.10E+00	4.81E-06	4.00%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	3.11E+00	3.60E+00	8.64E-05	71.86%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	3.27E-01	4.50E+00	7.27E-06	6.04%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	4.96E-01	2.28E+00	2.18E-05	18.10%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.20E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.20E-04**	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	3.54E+02	--	--	--	3.20E+04	1.11E-02	52.38%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	1.60E+07	5.25E-04	2.48%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	--	--	--	2.40E+05	2.99E-04	1.42%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	2.40E+04	2.83E-03	13.42%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	4.98E+02	--	--	--	4.00E+05	1.24E-03	5.89%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	4.00E+05	4.56E-03	21.61%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	2.80E+04	--	--	--	4.80E+07	5.83E-04	2.76%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.79E+02	--	--	--	4.80E+07	9.99E-06	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.11E-02**	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	8.35E+00	8.10E+01	1.03E-05	19.50%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	9.70E-01	2.28E+00	4.25E-05	80.50%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.29E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.29E-05**	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.82E+02	--	--	--	4.00E+05	1.21E-03	65.72%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.97E+04	--	--	--	4.80E+07	6.20E-04	33.77%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	4.50E+02	--	--	--	4.80E+07	9.37E-06	0.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.84E-03**	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	2.34E-01	1.53E+02	1.53E-07	0.09%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	6.55E+01	8.10E+01	8.09E-05	48.69%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	1.68E+00	4.40E+00	3.82E-05	22.99%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.10E-01	3.60E+00	8.61E-06	5.18%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	4.50E+00	3.56E-06	2.14%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	pCi/g	3.00E-02	2.36E+02	1.27E-08	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.32E-01	2.03E+02	6.48E-08	0.04%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	7.90E-01	2.28E+00	3.46E-05	20.86%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.66E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.66E-04**	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	5.95E+02	--	--	--	4.00E+05	1.49E-03	66.61%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.52E+04	--	--	--	4.80E+07	7.33E-04	32.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.94E+02	--	--	--	4.80E+07	1.24E-05	0.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.23E-03**	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	pCi/g	2.10E+00	1.53E+02	1.37E-06	0.14%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.39E+02	8.10E+01	1.72E-04	17.00%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.55E+01	4.40E+00	3.52E-04	34.85%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.30E-01	2.36E+02	9.75E-08	0.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.20E+00	2.03E+02	1.08E-06	0.11%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.10E+01	2.28E+00	4.82E-04	47.80%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	5.31E+00	6.24E+02	8.51E-07	0.08%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.01E-03**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.01E-03**	--	--	--	--
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	4.80E+07	6.42E-04	98.47%
100-K-6_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.77E+02	--	--	--	4.80E+07	9.94E-06	1.53%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.52E-04**	--
100-K-6_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.50E-02	1.53E+02	3.59E-08	0.08%	--	--	--
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	3.48E+01	8.10E+01	4.30E-05	99.87%	--	--	--
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.20E-02	2.03E+02	2.07E-08	0.05%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**4.30E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**4.30E-05**	--	--	--	--
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.29E+04	--	--	--	4.80E+07	4.77E-04	98.36%
100-K-62_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.83E+02	--	--	--	4.80E+07	7.98E-06	1.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.85E-04**	--
100-K-62_Shallow	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	1.53E+02	1.11E-07	0.19%	--	--	--
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.02E+01	8.10E+01	2.49E-05	42.63%	--	--	--
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	2.36E+02	1.53E-08	0.03%	--	--	--
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-01	2.03E+02	9.85E-08	0.17%	--	--	--
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	7.60E-01	2.28E+00	3.33E-05	56.98%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.85E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.85E-05**	--	--	--	--
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.90E+02	--	--	--	3.20E+04	5.94E-03	54.06%
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	--	--	--	2.40E+05	6.31E-04	5.75%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	2.40E+04	5.96E-04	5.43%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	4.00E+05	3.23E-03	29.36%
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.76E+04	--	--	--	4.80E+07	5.74E-04	5.22%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	9.37E+02	--	--	--	4.80E+07	1.95E-05	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.10E-02**	--
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.30E-02	3.10E+00	7.42E-07	0.73%	--	--	--
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	1.94E-01	3.60E+00	5.38E-06	5.28%	--	--	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	4.50E+00	3.56E-06	3.49%	--	--	--
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	pCi/g	2.00E-01	3.35E+02	5.97E-08	0.06%	--	--	--
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	2.10E+00	2.28E+00	9.21E-05	90.44%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.02E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.02E-04**	--	--	--	--
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	3.16E+02	--	--	--	3.20E+04	9.88E-03	55.32%
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	6.75E+02	--	--	--	4.00E+05	1.69E-03	9.46%
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	4.00E+05	2.19E-03	12.24%
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	5.61E+04	--	--	--	4.80E+07	1.17E-03	6.55%
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.67E+02	--	--	--	4.80E+07	9.72E-06	0.05%
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.01E+04	--	--	--	2.40E+07	2.92E-03	16.37%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.79E-02**	--
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.10E-02	3.10E+00	1.32E-06	19.00%	--	--	--
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	9.10E-02	3.60E+00	2.53E-06	36.31%	--	--	--
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.40E-01	4.50E+00	3.11E-06	44.69%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**6.96E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**6.96E-06**	--	--	--	--
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	5.70E+01	--	--	--	4.80E+06	1.19E-05	0.03%
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	6.20E+00	--	--	--	2.40E+07	2.58E-07	0.00%
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.11E+03	--	--	--	3.20E+04	3.47E-02	81.58%
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	1.00E+03	1.35E-08	80.20%	2.40E+04	5.60E-04	1.32%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	1.00E+04	1.54E-09	9.19%	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	1.00E+05	5.23E-11	0.31%	--	--	--
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	1.00E+06	1.32E-11	0.08%	--	--	--
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	3.03E+01	--	--	--	3.20E+06	9.48E-06	0.02%
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.80E+00	--	--	--	3.20E+06	2.13E-06	0.00%
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	--	--	--	2.40E+05	5.42E-04	1.27%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	1.00E+04	1.71E-09	10.22%	--	--	--
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.39E+03	--	--	--	4.00E+05	3.47E-03	8.17%
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.20E+01	--	--	--	2.40E+06	1.75E-05	0.04%
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	4.00E+05	2.32E-03	5.45%
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.09E+04	--	--	--	4.80E+07	8.52E-04	2.00%
100-K-77_Shallow	non-Rad	Tin	7440-31-5	ug/kg	2.16E+03	--	--	--	4.80E+07	4.50E-05	0.11%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.68E-08**	--	--	**4.25E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.68E-08**	--	--	--	--
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	3.91E+02	--	--	--	3.20E+04	1.22E-02	97.99%
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.20E+08	2.50E-04	2.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.25E-02**	--
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.66E+00	8.10E+01	2.05E-06	15.62%	--	--	--
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	7.30E-02	3.10E+00	2.35E-06	17.94%	--	--	--
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	2.70E-01	3.60E+00	7.50E-06	57.15%	--	--	--
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.24E+00	5.94E+02	1.22E-06	9.29%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.31E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.31E-05**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-84_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.42E+04	--	--	--	3.20E+06	7.56E-03	26.93%
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	2.40E+04	2.05E-02	73.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.81E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.70E+02	--	--	--	3.20E+04	1.47E-02	97.07%
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	1.00E+04	4.50E-10	3.86%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	1.00E+03	1.00E-08	85.71%	2.40E+04	4.17E-04	2.75%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	1.00E+04	1.20E-09	10.29%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	1.00E+06	1.70E-11	0.15%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	3.00E+01	--	--	--	3.20E+06	9.38E-06	0.06%
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.30E+01	--	--	--	2.40E+06	1.79E-05	0.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.17E-08**	--	--	**1.51E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.17E-08**	--	--	--	--
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	8.90E+02	--	--	--	3.20E+04	2.78E-02	82.15%
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	1.60E+07	5.94E-04	1.75%
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	9.80E+02	--	--	--	4.00E+05	2.45E-03	7.24%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	4.00E+05	3.00E-03	8.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.39E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.34E+02	--	--	--	3.20E+04	1.36E-02	77.59%
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	1.00E+04	4.20E-09	8.44%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	1.00E+03	3.90E-08	78.42%	2.40E+04	1.63E-03	9.30%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	1.00E+04	6.49E-09	13.05%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	1.00E+06	4.67E-11	0.09%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.79E+01	--	--	--	3.20E+06	2.75E-05	0.16%
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.34E+01	--	--	--	2.40E+06	2.64E-05	0.15%
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	4.00E+05	2.24E-03	12.81%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.97E-08**	--	--	**1.75E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**4.97E-08**	--	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	2.60E+01	--	--	--	2.40E+07	1.08E-06	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+03	--	--	--	3.20E+04	1.28E-01	85.46%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	1.00E+04	1.90E-08	12.71%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	1.00E+03	1.00E-07	66.91%	2.40E+04	4.17E-03	2.78%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	1.00E+04	2.60E-08	17.40%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	1.00E+06	2.50E-10	0.17%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.95E+04	--	--	--	3.20E+06	9.22E-03	6.15%
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.30E+02	--	--	--	3.20E+06	1.66E-04	0.11%
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	1.00E+04	4.20E-09	2.81%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.40E+04	6.67E-04	0.44%
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.40E+02	--	--	--	2.40E+06	1.83E-04	0.12%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	4.00E+05	2.23E-03	1.48%
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.24E+05	--	--	--	2.40E+07	5.17E-03	3.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.49E-07**	--	--	**1.50E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.49E-07**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	2.40E+04	7.08E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.08E-04**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	2.40E+04	1.13E-01	95.98%
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.13E+05	--	--	--	2.40E+07	4.71E-03	4.02%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.17E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	7.14E+04	1.06E-09	100.00%	1.60E+06	4.75E-05	0.91%
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	--	--	--	2.40E+05	9.00E-04	17.32%
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1.70E+03	--	--	--	4.00E+05	4.25E-03	81.77%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.06E-09**	--	--	**5.20E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.06E-09**	--	--	--	--
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.91E+01	--	--	--	4.80E+06	3.97E-06	0.32%
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	1.00E+04	5.43E-09	13.84%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	1.00E+03	2.70E-08	68.85%	2.40E+04	1.12E-03	92.02%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	1.00E+04	4.54E-09	11.58%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	1.00E+05	1.76E-10	0.45%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	1.00E+06	5.87E-11	0.15%	--	--	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1.19E+02	--	--	--	3.20E+06	3.72E-05	3.05%
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	8.90E+00	--	--	--	3.20E+06	2.78E-06	0.23%
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	1.00E+04	2.01E-09	5.13%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	--	--	--	1.60E+06	1.00E-05	0.82%
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1.04E+02	--	--	--	2.40E+06	4.35E-05	3.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.92E-08**	--	--	**1.22E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**3.92E-08**	--	--	--	--
116-K-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.50E+01	4.40E+00	3.41E-04	35.00%	--	--	--
116-K-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.50E+00	3.10E+00	8.08E-05	8.29%	--	--	--
116-K-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.49E+00	3.60E+00	1.53E-04	15.67%	--	--	--
116-K-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.01E+00	4.50E+00	2.25E-05	2.31%	--	--	--
116-K-1_Deep	Rad	Strontium-90	10098-97-2	pCi/g	8.60E+00	2.28E+00	3.77E-04	38.73%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.74E-04**	--	--	--	--
116-K-1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	2.57E-01	3.60E+00	7.13E-06	17.08%	--	--	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	7.89E-01	2.28E+00	3.46E-05	82.92%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**4.18E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**4.18E-05**	--	--	--	--
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	--	--	--	2.40E+05	1.08E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.08E-03**	--
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.24E+00	4.40E+00	2.82E-05	25.12%	--	--	--
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	3.10E+00	1.23E-06	1.09%	--	--	--
116-K-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	3.60E+00	6.26E-06	5.58%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	1.74E+00	2.28E+00	7.65E-05	68.21%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.12E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.12E-04**	--	--	--	--
116-K-2_Deep_1	Rad	Americium-241	14596-10-2	pCi/g	4.91E+00	1.53E+02	3.21E-06	0.05%	--	--	--
116-K-2_Deep_1	Rad	Carbon-14	14762-75-5	pCi/g	2.00E+00	8.10E+01	2.47E-06	0.04%	--	--	--
116-K-2_Deep_1	Rad	Cesium-137	10045-97-3	pCi/g	1.40E+02	4.40E+00	3.19E-03	54.63%	--	--	--
116-K-2_Deep_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.79E+00	3.10E+00	8.99E-05	1.54%	--	--	--
116-K-2_Deep_1	Rad	Europium-152	14683-23-9	pCi/g	6.86E+01	3.60E+00	1.91E-03	32.62%	--	--	--
116-K-2_Deep_1	Rad	Europium-154	15585-10-1	pCi/g	6.24E+00	4.50E+00	1.39E-04	2.37%	--	--	--
116-K-2_Deep_1	Rad	Nickel-63	13981-37-8	pCi/g	9.95E+02	5.94E+02	1.67E-04	2.87%	--	--	--
116-K-2_Deep_1	Rad	Plutonium-238	13981-16-3	pCi/g	7.23E-01	2.36E+02	3.06E-07	0.01%	--	--	--
116-K-2_Deep_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.91E+00	2.03E+02	3.90E-06	0.07%	--	--	--
116-K-2_Deep_1	Rad	Strontium-90	10098-97-2	pCi/g	7.72E+00	2.28E+00	3.39E-04	5.80%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.84E-03**	--	--	--	--
116-K-2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	3.94E+00	1.53E+02	2.57E-06	0.04%	--	--	--
116-K-2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	4.62E+00	8.10E+01	5.70E-06	0.09%	--	--	--
116-K-2_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	1.44E+02	4.40E+00	3.28E-03	51.32%	--	--	--
116-K-2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.43E+00	3.10E+00	1.43E-04	2.23%	--	--	--
116-K-2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	8.23E+01	3.60E+00	2.29E-03	35.73%	--	--	--
116-K-2_Deep_2	Rad	Europium-154	15585-10-1	pCi/g	1.21E+01	4.50E+00	2.69E-04	4.21%	--	--	--
116-K-2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	6.59E+02	5.94E+02	1.11E-04	1.74%	--	--	--
116-K-2_Deep_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.37E-01	2.36E+02	1.01E-07	0.00%	--	--	--
116-K-2_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.95E+00	2.03E+02	2.93E-06	0.05%	--	--	--
116-K-2_Deep_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E+00	2.28E+00	2.94E-04	4.60%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**6.40E-03**	--	--	--	--
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	--	--	--	2.40E+05	1.22E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.22E-03**	--
116-K-2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.91E-01	3.60E+00	5.29E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.29E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.29E-06**	--	--	--	--
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	--	--	--	2.40E+05	2.79E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.79E-03**	--
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	2.98E+00	8.10E+01	3.68E-06	15.91%	--	--	--
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.46E-01	3.60E+00	9.61E-06	41.58%	--	--	--
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	pCi/g	7.83E+00	5.94E+02	1.32E-06	5.70%	--	--	--
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.94E-01	2.28E+00	8.51E-06	36.81%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.31E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.31E-05**	--	--	--	--
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	--	--	--	2.40E+05	1.04E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.04E-03**	--
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.00E+00	4.40E+00	4.55E-05	65.81%	--	--	--
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	6.84E-01	3.60E+00	1.90E-05	27.45%	--	--	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.72E-01	4.50E+00	3.82E-06	5.52%	--	--	--
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	5.03E+00	5.94E+02	8.47E-07	1.22%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate	--	--	--	--	--	--	**6.92E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**6.92E-05**	--	--	--	--
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	--	--	--	2.40E+05	5.04E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.04E-03**	--
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	8.60E-02	3.10E+00	2.77E-06	7.71%	--	--	--
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	6.91E-01	3.60E+00	1.92E-05	53.34%	--	--	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	1.88E-01	4.50E+00	4.17E-06	11.60%	--	--	--
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.99E+00	5.94E+02	8.41E-07	2.34%	--	--	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	2.05E-01	2.28E+00	9.00E-06	25.01%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**3.60E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**3.60E-05**	--	--	--	--
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.20E+08	2.50E-04	4.00%
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	1.60E+08	3.69E-04	5.91%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	--	--	--	2.40E+05	1.38E-03	22.02%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	2.40E+04	4.25E-03	68.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.24E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	--	--	--	2.40E+05	2.26E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.26E-03**	--
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.32E-01	1.53E+02	3.48E-07	0.67%	--	--	--
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.02E-01	3.10E+00	3.28E-06	6.30%	--	--	--
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.52E+00	3.60E+00	4.22E-05	80.89%	--	--	--
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.65E-01	4.50E+00	5.88E-06	11.28%	--	--	--
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	9.18E-01	2.03E+02	4.52E-07	0.87%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.21E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.21E-05**	--	--	--	--
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	--	--	--	2.40E+05	1.00E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.00E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.00E+05	1.47E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.47E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.20E+06	6.96E-03	57.80%
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	7.76E+02	--	--	--	4.00E+05	1.94E-03	16.11%
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.54E+04	--	--	--	2.40E+07	3.14E-03	26.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.20E-02**	--
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	3.28E-01	3.60E+00	9.11E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.11E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.11E-06**	--	--	--	--
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	3.36E+07	--	--	--	5.60E+07	6.00E-01	72.49%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.00E+05	1.47E-03	0.18%
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	4.00E+05	2.26E-01	27.33%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**8.28E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	ug/kg	4.00E+02	--	--	--	3.20E+04	1.25E-02	87.02%
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	7.46E+02	--	--	--	4.00E+05	1.86E-03	12.98%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.44E-02**	--
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E-01	3.60E+00	3.70E-06	1.50%	--	--	--
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	pCi/g	5.55E+00	2.28E+00	2.43E-04	98.50%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.47E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.47E-04**	--	--	--	--
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	5.00E+05	1.20E-11	100.00%	4.80E+05	1.25E-05	0.76%
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.00E+05	1.50E-03	90.97%
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	7.74E+04	--	--	--	5.68E+08	1.36E-04	8.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.20E-11**	--	--	**1.65E-03**	--
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.52E+00	4.40E+00	5.73E-05	58.64%	--	--	--
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	pCi/g	8.20E-02	3.10E+00	2.65E-06	2.71%	--	--	--
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.30E-02	2.03E+02	3.60E-08	0.04%	--	--	--
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	pCi/g	8.60E-01	2.28E+00	3.77E-05	38.62%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.77E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.77E-05**	--	--	--	--
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	5.00E+05	1.80E-11	100.00%	4.80E+05	1.88E-05	1.23%
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.00E+05	1.50E-03	98.77%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.80E-11**	--	--	**1.52E-03**	--
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.30E-02	1.53E+02	6.08E-08	0.04%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.70E+00	4.40E+00	8.41E-05	49.04%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	8.70E-02	2.03E+02	4.29E-08	0.02%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.99E+00	2.28E+00	8.73E-05	50.90%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.71E-04**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.71E-04**	--	--	--	--
118-K-1_P2_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	2.97E-01	1.53E+02	1.94E-07	0.80%	--	--	--
118-K-1_P2_Deep_2	Rad	Carbon-14	14762-75-5	pCi/g	1.52E+00	8.10E+01	1.88E-06	7.73%	--	--	--
118-K-1_P2_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	2.31E-01	3.10E+00	7.45E-06	30.71%	--	--	--
118-K-1_P2_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	4.64E-01	3.60E+00	1.29E-05	53.12%	--	--	--
118-K-1_P2_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	1.10E+01	5.94E+02	1.85E-06	7.63%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.43E-05**	--	--	--	--
118-K-1_P2_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	2.38E-01	1.53E+02	1.56E-07	0.22%	--	--	--
118-K-1_P2_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	2.33E+00	8.10E+01	2.88E-06	4.05%	--	--	--
118-K-1_P2_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	6.93E-01	3.10E+00	2.24E-05	31.41%	--	--	--
118-K-1_P2_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	1.07E+00	3.60E+00	2.97E-05	41.76%	--	--	--
118-K-1_P2_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	4.29E-01	4.50E+00	9.53E-06	13.40%	--	--	--
118-K-1_P2_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	3.84E+01	5.94E+02	6.46E-06	9.08%	--	--	--
118-K-1_P2_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.16E-01	2.03E+02	5.71E-08	0.08%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**7.12E-05**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Deep_4	Rad	Cobalt-60	10198-40-0	pCi/g	1.66E-01	3.10E+00	5.35E-06	7.28%	--	--	--
118-K-1_P2_Deep_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E+00	3.60E+00	3.69E-05	50.20%	--	--	--
118-K-1_P2_Deep_4	Rad	Nickel-63	13981-37-8	pCi/g	3.44E+00	5.94E+02	5.79E-07	0.79%	--	--	--
118-K-1_P2_Deep_4	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.07E-01	2.03E+02	1.02E-07	0.14%	--	--	--
118-K-1_P2_Deep_4	Rad	Strontium-90	10098-97-2	pCi/g	6.78E-01	2.28E+00	2.97E-05	40.45%	--	--	--
118-K-1_P2_Deep_4	Rad	Tritium	10028-17-8	pCi/g	5.21E+00	6.24E+02	8.35E-07	1.14%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**7.35E-05**	--	--	--	--
118-K-1_P2_Deep_5	Rad	Carbon-14	14762-75-5	pCi/g	2.69E+00	8.10E+01	3.33E-06	62.01%	--	--	--
118-K-1_P2_Deep_5	Rad	Nickel-63	13981-37-8	pCi/g	1.21E+01	5.94E+02	2.04E-06	37.99%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.36E-06**	--	--	--	--
118-K-1_P2_Deep_6	Rad	Carbon-14	14762-75-5	pCi/g	1.68E+00	8.10E+01	2.07E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.07E-06**	--	--	--	--
118-K-1_P2_Deep_7	Rad	Americium-241	14596-10-2	pCi/g	1.79E+00	1.53E+02	1.17E-06	0.21%	--	--	--
118-K-1_P2_Deep_7	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	8.10E+01	1.46E-06	0.26%	--	--	--
118-K-1_P2_Deep_7	Rad	Cesium-137	10045-97-3	pCi/g	1.01E+01	4.40E+00	2.29E-04	41.14%	--	--	--
118-K-1_P2_Deep_7	Rad	Nickel-63	13981-37-8	pCi/g	3.37E+00	5.94E+02	5.67E-07	0.10%	--	--	--
118-K-1_P2_Deep_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E+00	2.03E+02	7.88E-07	0.14%	--	--	--
118-K-1_P2_Deep_7	Rad	Strontium-90	10098-97-2	pCi/g	7.34E+00	2.28E+00	3.22E-04	57.93%	--	--	--
118-K-1_P2_Deep_7	Rad	Tritium	10028-17-8	pCi/g	7.48E+00	6.24E+02	1.20E-06	0.22%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**5.56E-04**	--	--	--	--
118-K-1_P2_Deep_8	non-Rad	Iron	7439-89-6	ug/kg	3.60E+07	--	--	--	5.60E+07	6.44E-01	93.16%
118-K-1_P2_Deep_8	non-Rad	Manganese	7439-96-5	ug/kg	5.16E+05	--	--	--	1.12E+07	4.61E-02	6.66%
118-K-1_P2_Deep_8	non-Rad	Molybdenum	7439-98-7	ug/kg	4.95E+02	--	--	--	4.00E+05	1.24E-03	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.91E-01**	--
118-K-1_P2_Deep_8	Rad	Americium-241	14596-10-2	pCi/g	2.83E-01	1.53E+02	1.85E-07	8.62%	--	--	--
118-K-1_P2_Deep_8	Rad	Carbon-14	14762-75-5	pCi/g	8.35E-01	8.10E+01	1.03E-06	48.05%	--	--	--
118-K-1_P2_Deep_8	Rad	Tritium	10028-17-8	pCi/g	5.80E+00	6.24E+02	9.29E-07	43.33%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.15E-06**	--	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.93E-01	1.53E+02	6.49E-07	0.04%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Carbon-14	14762-75-5	pCi/g	2.26E+00	8.10E+01	2.79E-06	0.18%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	1.07E+01	4.40E+00	2.43E-04	15.46%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	2.32E+00	3.60E+00	6.44E-05	4.10%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	5.68E+01	5.94E+02	9.56E-06	0.61%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-238	13981-16-3	pCi/g	5.30E-02	2.36E+02	2.25E-08	0.00%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.74E+00	2.03E+02	1.84E-06	0.12%	--	--	--
118-K-1_P2_Deep_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	2.85E+01	2.28E+00	1.25E-03	79.49%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.57E-03**	--	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Americium-241	14596-10-2	pCi/g	2.22E+00	1.53E+02	1.45E-06	0.08%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Carbon-14	14762-75-5	pCi/g	1.42E+01	8.10E+01	1.75E-05	0.95%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	4.43E+00	4.40E+00	1.01E-04	5.43%	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Deep_Focused_2	Rad	Cobalt-60	10198-40-0	pCi/g	3.99E-01	3.10E+00	1.29E-05	0.69%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Europium-152	14683-23-9	pCi/g	3.66E+01	3.60E+00	1.02E-03	54.83%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Europium-154	15585-10-1	pCi/g	1.91E+00	4.50E+00	4.24E-05	2.29%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	1.36E+01	5.94E+02	2.29E-06	0.12%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-238	13981-16-3	pCi/g	3.20E-01	2.36E+02	1.36E-07	0.01%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E+00	2.03E+02	7.88E-07	0.04%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+01	2.28E+00	6.58E-04	35.48%	--	--	--
118-K-1_P2_Deep_Focused_2	Rad	Tritium	10028-17-8	pCi/g	8.08E+00	6.24E+02	1.29E-06	0.07%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.85E-03**	--	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Americium-241	14596-10-2	pCi/g	3.94E+00	1.53E+02	2.58E-06	0.19%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Cesium-137	10045-97-3	pCi/g	3.63E+01	4.40E+00	8.25E-04	60.47%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Cobalt-60	10198-40-0	pCi/g	1.97E-01	3.10E+00	6.35E-06	0.47%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Nickel-63	13981-37-8	pCi/g	8.40E+00	5.94E+02	1.41E-06	0.10%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-238	13981-16-3	pCi/g	3.84E-01	2.36E+02	1.63E-07	0.01%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.17E+00	2.03E+02	2.05E-06	0.15%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Strontium-90	10098-97-2	pCi/g	1.19E+01	2.28E+00	5.22E-04	38.26%	--	--	--
118-K-1_P2_Deep_Focused_7	Rad	Tritium	10028-17-8	pCi/g	2.98E+01	6.24E+02	4.78E-06	0.35%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.36E-03**	--	--	--	--
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	4.52E+00	8.10E+01	5.58E-06	84.31%	--	--	--
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	6.48E+00	6.24E+02	1.04E-06	15.69%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**6.62E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**6.62E-06**	--	--	--	--
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	ug/kg	2.26E+04	--	--	--	3.20E+06	7.08E-03	64.04%
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	ug/kg	1.59E+03	--	--	--	4.00E+05	3.98E-03	35.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.11E-02**	--
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	pCi/g	8.84E-01	8.10E+01	1.09E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.09E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.09E-06**	--	--	--	--
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.00E+05	1.63E-03	88.41%
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+05	--	--	--	5.68E+08	2.13E-04	11.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.84E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	6.78E+02	--	--	--	4.00E+05	1.70E-03	69.91%
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	ug/kg	3.91E+05	--	--	--	5.68E+08	6.88E-04	28.38%
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.40E+07	4.17E-05	1.72%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.42E-03**	--
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	pCi/g	8.77E-01	8.10E+01	1.08E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.08E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.08E-06**	--	--	--	--
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	8.00E+07	1.58E-01	98.00%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	2.40E+04	1.62E-03	1.01%
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	ug/kg	5.17E+02	--	--	--	4.00E+05	1.29E-03	0.80%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	ug/kg	1.69E+05	--	--	--	5.68E+08	2.98E-04	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.61E-01**	--
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	pCi/g	8.70E-01	8.10E+01	1.07E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.07E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.07E-06**	--	--	--	--
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.00E+05	1.41E-03	84.38%
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	ug/kg	1.48E+05	--	--	--	5.68E+08	2.61E-04	15.62%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.67E-03**	--
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	pCi/g	1.15E+00	8.10E+01	1.42E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.42E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.42E-06**	--	--	--	--
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.20E+06	6.98E-03	82.24%
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.00E+05	1.41E-03	16.60%
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	ug/kg	5.60E+04	--	--	--	5.68E+08	9.86E-05	1.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**8.48E-03**	--
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	pCi/g	2.06E+00	8.10E+01	2.54E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.54E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.54E-06**	--	--	--	--
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	2.40E+04	9.08E-04	28.09%
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	ug/kg	8.84E+02	--	--	--	4.00E+05	2.21E-03	68.36%
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	ug/kg	6.51E+04	--	--	--	5.68E+08	1.15E-04	3.54%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.23E-03**	--
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	pCi/g	1.31E+00	8.10E+01	1.62E-06	73.23%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	pCi/g	3.69E+00	6.24E+02	5.91E-07	26.77%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.21E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.21E-06**	--	--	--	--
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	ug/kg	5.82E+02	--	--	--	4.00E+05	1.46E-03	0.68%
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	4.00E+05	2.13E-01	99.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.15E-01**	--
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	pCi/g	1.88E+00	8.10E+01	2.32E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.32E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.32E-06**	--	--	--	--
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	ug/kg	4.88E+02	--	--	--	4.00E+05	1.22E-03	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.22E-03**	--
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	pCi/g	1.61E+00	8.10E+01	1.99E-06	19.97%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	pCi/g	2.87E-01	3.60E+00	7.97E-06	80.03%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.95E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.95E-06**	--	--	--	--
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.00E+00	8.10E+01	1.23E-06	16.31%	--	--	--
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	2.28E-01	3.60E+00	6.33E-06	83.69%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**7.57E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**7.57E-06**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	8.10E+01	1.46E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.46E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.46E-06**	--	--	--	--
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	pCi/g	8.58E-01	8.10E+01	1.06E-06	10.77%	--	--	--
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	pCi/g	2.72E-01	3.10E+00	8.77E-06	89.23%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.83E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.83E-06**	--	--	--	--
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	2.40E+04	2.41E-03	63.66%
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.00E+05	1.38E-03	36.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.78E-03**	--
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	pCi/g	7.93E-01	8.10E+01	9.79E-07	9.89%	--	--	--
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	pCi/g	3.21E-01	3.60E+00	8.92E-06	90.11%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**9.90E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**9.90E-06**	--	--	--	--
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	pCi/g	8.12E-01	8.10E+01	1.00E-06	12.80%	--	--	--
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	pCi/g	1.98E-01	3.60E+00	5.50E-06	70.23%	--	--	--
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	8.29E+00	6.24E+02	1.33E-06	16.96%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**7.83E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**7.83E-06**	--	--	--	--
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	ug/kg	1.63E+04	--	--	--	3.20E+04	5.09E-01	96.72%
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	ug/kg	2.25E+04	--	--	--	3.20E+06	7.03E-03	1.34%
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	7.61E+01	--	--	--	8.00E+06	9.51E-06	0.00%
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	2.40E+04	5.38E-03	1.02%
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.00E+05	1.63E-03	0.31%
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	7.72E+04	--	--	--	2.40E+07	3.22E-03	0.61%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.27E-01**	--
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	pCi/g	1.16E+00	8.10E+01	1.43E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.43E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.43E-06**	--	--	--	--
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	pCi/g	1.30E+00	8.10E+01	1.61E-06	74.51%	--	--	--
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	pCi/g	3.43E+00	6.24E+02	5.50E-07	25.49%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.16E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.16E-06**	--	--	--	--
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	2.40E+04	8.83E-04	30.09%
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.00E+05	1.60E-03	54.63%
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.31E+05	--	--	--	5.68E+08	4.07E-04	13.86%
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.40E+07	4.17E-05	1.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.94E-03**	--
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	pCi/g	5.30E-02	3.60E+00	1.47E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.47E-06**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.47E-06**	--	--	--	--
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	3.69E+02	--	--	--	3.20E+04	1.15E-02	1.29%
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	3.44E+07	--	--	--	5.60E+07	6.14E-01	68.92%
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.81E+02	--	--	--	4.00E+05	1.20E-03	0.13%
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	--	--	--	1.60E+06	1.66E-02	1.86%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.00E+05	2.48E-01	27.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**8.91E-01**	--
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	pCi/g	1.72E+00	8.10E+01	2.12E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**2.12E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.12E-06**	--	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	pCi/g	3.08E+00	8.10E+01	3.80E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**3.80E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**3.80E-06**	--	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	pCi/g	1.33E+00	8.10E+01	1.64E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.64E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.64E-06**	--	--	--	--
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	2.03E+04	--	--	--	1.20E+08	1.69E-04	1.31%
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	--	--	--	1.60E+06	1.28E-02	98.69%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.29E-02**	--
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	pCi/g	1.17E+01	6.24E+02	1.88E-06	100.00%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.88E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.88E-06**	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	4.00E+05	2.55E-03	79.35%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	ug/kg	3.13E+04	--	--	--	4.80E+07	6.53E-04	20.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	ug/kg	5.56E+02	--	--	--	4.80E+07	1.16E-05	0.36%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.22E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	ug/kg	6.11E+02	--	--	--	3.20E+04	1.91E-02	80.95%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	2.40E+04	3.70E-03	15.70%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	ug/kg	3.74E+04	--	--	--	4.80E+07	7.79E-04	3.30%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	ug/kg	5.87E+02	--	--	--	4.80E+07	1.22E-05	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.36E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	--	--	--	2.40E+05	4.51E-04	8.48%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.59E+02	--	--	--	4.00E+05	1.40E-03	26.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	4.00E+05	2.80E-03	52.64%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	4.80E+07	6.59E-04	12.40%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.68E+02	--	--	--	4.80E+07	1.18E-05	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.32E-03**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	1.60E+07	3.19E-04	0.13%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.49E+04	--	--	--	3.20E+06	1.09E-02	4.32%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.10E+02	--	--	--	4.00E+05	1.53E-03	0.60%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	4.00E+05	5.00E-03	1.98%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	4.39E+04	--	--	--	4.80E+07	9.15E-04	0.36%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	6.00E+02	--	--	--	4.80E+07	1.25E-05	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	4.00E+05	2.34E-01	92.61%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.53E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	--	--
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	6.70E+02	--	--	--	2.40E+07	2.79E-05	0.02%
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	1.00E+04	8.30E-07	14.32%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	1.00E+03	2.90E-06	50.05%	2.40E+04	1.21E-01	89.72%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	1.00E+04	6.10E-07	10.53%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	1.00E+05	4.10E-08	0.71%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	7.14E+04	1.22E-08	0.21%	1.60E+06	5.44E-04	0.40%
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	1.00E+06	1.10E-08	0.19%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	1.00E+03	1.20E-06	20.71%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.10E+04	--	--	--	3.20E+06	3.44E-03	2.55%
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	--	--	--	2.40E+05	2.00E-03	1.49%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	1.00E+04	1.90E-07	3.28%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	2.40E+04	1.25E-03	0.93%
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.10E+04	--	--	--	2.40E+06	4.58E-03	3.40%
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	4.00E+05	2.00E-03	1.49%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.79E-06**	--	--	**1.35E-01**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.79E-06**	--	--	--	--
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.80E+01	--	--	--	4.80E+06	3.75E-06	0.01%
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	7.20E+07	1.41E-07	0.00%
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.06E+01	--	--	--	2.40E+07	4.43E-07	0.00%
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.00E+02	--	--	--	3.20E+04	1.56E-02	56.62%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	1.00E+04	2.67E-09	5.13%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	1.00E+03	2.80E-08	53.97%	2.40E+04	1.17E-03	4.23%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	1.00E+04	3.31E-09	6.38%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	1.00E+05	9.36E-11	0.18%	--	--	--
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	1.00E+06	1.39E-11	0.03%	--	--	--
128-K-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.37E+04	--	--	--	3.20E+06	7.41E-03	26.84%
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	1.00E+03	1.60E-08	30.82%	--	--	--
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4.08E+01	--	--	--	3.20E+06	1.28E-05	0.05%
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.40E+01	--	--	--	3.20E+06	4.38E-06	0.02%
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	1.00E+04	1.81E-09	3.49%	--	--	--
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	2.40E+04	9.17E-04	3.32%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	--	--	--	1.60E+06	1.00E-05	0.04%
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.19E+01	--	--	--	2.40E+06	1.75E-05	0.06%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	4.00E+05	2.43E-03	8.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.19E-08**	--	--	**2.76E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**5.19E-08**	--	--	--	--
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	7.20E+07	1.39E-07	0.00%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+02	--	--	--	3.20E+04	1.28E-02	25.53%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	5.00E+02	1.08E-08	8.80%	1.60E+03	3.38E-03	6.73%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	5.00E+02	1.00E-07	81.44%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	1.00E+04	1.00E-09	0.81%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	1.00E+03	9.50E-09	7.74%	2.40E+04	3.96E-04	0.79%
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.00E+04	1.40E-09	1.14%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	1.00E+05	7.80E-11	0.06%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.00E+06	1.20E-11	0.01%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	7.36E+04	--	--	--	3.20E+06	2.30E-02	45.83%
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	3.20E+06	9.06E-06	0.02%
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.40E+04	4.17E-03	8.30%
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.80E+01	--	--	--	2.40E+06	7.50E-06	0.01%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	4.00E+05	2.75E-03	5.48%
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	8.80E+04	--	--	--	2.40E+07	3.67E-03	7.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.23E-07**	--	--	**5.02E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.23E-07**	--	--	--	--
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.15E+04	--	--	--	4.80E+07	6.56E-04	98.46%
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.94E+02	--	--	--	4.80E+07	1.03E-05	1.54%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**6.67E-04**	--
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	4.00E-02	1.53E+02	2.61E-08	0.15%	--	--	--
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.45E+01	8.10E+01	1.79E-05	99.74%	--	--	--
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.10E-02	2.03E+02	2.02E-08	0.11%	--	--	--
Total Radiological Risk Estimate	--	--	--	--	--	--	**1.79E-05**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**1.79E-05**	--	--	--	--
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	5.00E+02	2.40E-08	100.00%	1.60E+03	7.50E-03	43.27%
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.22E+04	--	--	--	1.20E+08	1.85E-04	1.07%
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	2.40E+04	2.44E-03	14.06%
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.00E+05	1.38E-03	7.93%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	4.00E+05	2.22E-03	12.78%
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.55E+04	--	--	--	4.80E+07	7.40E-04	4.27%
1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.49E+02	--	--	--	4.80E+07	1.14E-05	0.07%
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.89E+04	--	--	--	2.40E+07	2.87E-03	16.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.40E-08**	--	--	**1.73E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**2.40E-08**	--	--	--	--
600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.20E+02	--	--	--	3.20E+04	1.63E-02	30.03%
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	1.00E+03	6.70E-08	97.83%	2.40E+04	2.79E-03	5.16%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	7.14E+04	1.44E-09	2.11%	1.60E+06	6.44E-05	0.12%
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	1.00E+06	4.60E-11	0.07%	--	--	--
600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.62E+04	--	--	--	3.20E+06	8.20E-03	15.15%
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	2.40E+04	9.00E-04	1.66%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	--	--	--	1.60E+06	2.34E-02	43.27%
600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	8.70E+01	--	--	--	2.40E+06	3.63E-05	0.07%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	4.00E+05	2.46E-03	4.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**6.85E-08**	--	--	**5.41E-02**	--
Total Non-Radiological and Radiological Risk Estimate	--	--	--	--	--	--	**6.85E-08**	--	--	--	--
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.50E+02	--	--	--	3.20E+04	1.41E-02	44.31%

Table B-9. Residential Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	1.00E+04	7.20E-09	4.51%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.00E+03	1.20E-07	75.20%	2.40E+04	5.00E-03	15.75%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.00E+04	2.10E-08	13.16%	--	--	--
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	7.14E+04	1.68E-09	1.05%	1.60E+06	7.50E-05	0.24%
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	1.00E+06	9.00E-11	0.06%	--	--	--
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.89E+04	--	--	--	3.20E+06	9.03E-03	28.46%
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	2.40E+02	--	--	--	8.00E+06	3.00E-05	0.09%
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.00E+02	--	--	--	3.20E+06	3.13E-05	0.10%
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	1.00E+04	9.60E-09	6.02%	--	--	--
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.40E+04	6.67E-04	2.10%
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	9.60E+01	--	--	--	2.40E+06	4.00E-05	0.13%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	4.00E+05	2.35E-03	7.40%
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	1.80E+02	--	--	--	4.00E+05	4.50E-04	1.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**1.60E-07**	**--**	**--**	**3.17E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate	**--**	**--**	**--**	**--**	**--**	**--**	**1.60E-07**	**--**	**--**	**--**	**--**

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	2.17E+06	6.86E-11	100.00%	3.33E+09	4.47E-08	8.04%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	1.00E+10	5.08E-07	91.49%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	6.67E+11	2.58E-09	0.46%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**6.86E-11**	--	--	**5.56E-07**	--
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	6.38E+13	1.51E-17	100.00%	3.33E+08	2.89E-06	95.97%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	1.00E+10	1.21E-07	4.03%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.51E-17**	--	--	**3.01E-06**	--
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	4.34E+11	1.06E-08	0.00%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.67E+09	3.89E-04	93.73%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	3.33E+09	2.60E-05	6.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.15E-04**	--
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	2.17E+06	1.34E-10	100.00%	3.33E+09	8.70E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.34E-10**	--	--	**8.70E-08**	--
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	2.17E+06	1.06E-10	100.00%	3.33E+09	6.90E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.06E-10**	--	--	**6.90E-08**	--
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	2.17E+06	7.37E-11	100.00%	3.33E+09	4.80E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**7.37E-11**	--	--	**4.80E-08**	--
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	1.00E+10	7.60E-09	83.14%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	6.67E+11	1.54E-09	16.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**9.14E-09**	--
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	2.17E+06	7.69E-11	100.00%	3.33E+09	5.01E-08	92.18%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	1.00E+10	1.40E-09	2.58%
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	6.67E+11	2.85E-09	5.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**7.69E-11**	--	--	**5.43E-08**	--
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	2.17E+06	9.16E-11	100.00%	3.33E+09	5.96E-08	56.55%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	1.00E+10	4.31E-08	40.88%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	6.67E+11	2.72E-09	2.58%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**9.16E-11**	--	--	**1.05E-07**	--
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	6.38E+13	2.93E-17	100.00%	3.33E+08	5.61E-06	99.80%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	1.00E+10	1.10E-08	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.93E-17**	--	--	**5.62E-06**	--
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	7.60E+07	2.15E-11	100.00%	6.67E+08	2.45E-06	7.60%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	6.67E+11	1.59E-08	0.05%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	1.00E+10	4.91E-08	0.15%

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	6.67E+11	1.71E-09	0.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	3.33E+09	2.97E-05	92.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.15E-11**	--	--	**3.22E-05**	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	6.67E+11	3.53E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.53E-09**	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	2.17E+06	8.01E-11	100.00%	3.33E+09	5.22E-08	0.18%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	1.00E+10	2.41E-08	0.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	6.67E+11	3.60E-09	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	3.33E+09	2.85E-05	99.72%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**8.01E-11**	--	--	**2.85E-05**	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	2.17E+06	1.07E-10	100.00%	3.33E+09	6.98E-08	0.27%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	1.00E+10	6.79E-09	0.03%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	6.67E+11	1.58E-09	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	3.33E+09	2.62E-05	99.70%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.07E-10**	--	--	**2.63E-05**	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	2.17E+06	3.52E-10	100.00%	3.33E+09	2.29E-07	87.90%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	1.00E+10	2.90E-08	11.12%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	6.67E+11	2.55E-09	0.98%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.52E-10**	--	--	**2.61E-07**	--
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	3.20E+08	3.06E-13	0.02%	--	--	--
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	2.17E+06	1.47E-09	99.98%	3.33E+09	9.60E-07	99.48%
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	1.00E+10	5.00E-09	0.52%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.47E-09**	--	--	**9.65E-07**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	3.20E+08	5.31E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	3.20E+08	7.50E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	3.04E+09	1.61E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	3.04E+08	1.61E-13	0.00%	6.67E+07	7.35E-07	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	3.04E+09	2.40E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	3.04E+10	1.05E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	3.04E+11	2.47E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	3.04E+08	1.38E-13	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	2.17E+06	4.70E-11	0.16%	3.33E+09	3.06E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	3.04E+09	8.88E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	1.00E+10	5.00E-09	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	1.36E+03	2.87E-08	99.84%	2.53E+04	1.54E-03	99.95%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.88E-08**	--	--	**1.54E-03**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	3.20E+08	3.75E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	3.04E+09	3.62E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	3.04E+08	2.66E-14	0.00%	6.67E+07	1.21E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	3.04E+09	4.93E-15	0.00%	--	--	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	3.04E+10	2.50E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	3.04E+11	5.92E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	3.04E+09	1.74E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	1.36E+03	1.69E-08	100.00%	2.53E+04	9.08E-04	99.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.69E-08**	--	--	**9.08E-04**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	3.04E+08	3.29E-15	100.00%	6.67E+07	1.50E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.29E-15**	--	--	**1.50E-08**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	3.04E+09	4.28E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	3.04E+08	4.61E-14	0.00%	6.67E+07	2.10E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	3.04E+09	6.25E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	3.04E+10	2.66E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	3.04E+11	6.91E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	3.04E+09	2.53E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	1.36E+03	3.17E-08	100.00%	2.53E+04	1.70E-03	99.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.17E-08**	--	--	**1.70E-03**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	3.04E+09	2.20E-14	5.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	3.04E+08	2.04E-13	46.63%	6.67E+07	9.30E-07	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	3.04E+09	2.90E-14	6.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	3.04E+10	1.25E-15	0.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	3.04E+11	2.66E-16	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	3.04E+08	1.68E-13	38.36%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	3.04E+09	1.32E-14	3.01%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.37E-13**	--	--	**9.30E-07**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	3.04E+09	3.26E-14	5.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	3.04E+08	3.62E-13	61.80%	6.67E+07	1.65E-06	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	3.04E+09	4.93E-14	8.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	3.04E+10	2.07E-15	0.35%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	3.04E+11	5.59E-16	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	3.04E+08	1.15E-13	19.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	3.04E+09	2.40E-14	4.10%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.86E-13**	--	--	**1.65E-06**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	3.04E+09	2.14E-14	14.21%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	3.04E+08	1.02E-13	67.78%	6.67E+07	4.65E-07	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	3.04E+09	1.88E-14	12.46%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	3.04E+10	8.22E-16	0.55%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	3.04E+11	2.86E-16	0.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	3.04E+09	7.24E-15	4.81%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.50E-13**	--	--	**4.65E-07**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	3.04E+09	1.74E-15	14.49%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	3.04E+08	7.90E-15	65.60%	6.67E+07	3.60E-08	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	3.04E+09	1.84E-15	15.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	3.04E+10	6.25E-17	0.52%	--	--	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	3.04E+11	3.06E-17	0.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	3.04E+09	4.61E-16	3.83%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.20E-14**	--	--	**3.60E-08**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	3.04E+08	3.62E-15	100.00%	6.67E+07	1.65E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.62E-15**	--	--	**1.65E-08**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	3.04E+09	9.21E-14	11.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	3.04E+08	3.95E-13	49.06%	6.67E+07	1.80E-06	99.59%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	3.04E+09	6.91E-14	8.59%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	3.04E+10	3.16E-15	0.39%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	6.67E+11	7.48E-09	0.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	3.04E+11	1.15E-15	0.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	3.04E+08	2.24E-13	27.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	3.04E+09	2.07E-14	2.58%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**8.05E-13**	--	--	**1.81E-06**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	3.04E+09	2.60E-15	6.64%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	3.04E+08	2.47E-14	63.05%	6.67E+07	1.12E-07	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	3.04E+09	3.62E-15	9.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	3.04E+10	1.48E-16	0.38%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	3.04E+11	6.25E-15	15.97%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	3.04E+09	1.84E-15	4.71%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.91E-14**	--	--	**1.12E-07**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	3.04E+09	4.93E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	3.04E+08	2.34E-13	0.00%	6.67E+07	1.06E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	3.04E+09	3.95E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	3.04E+10	1.84E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	3.04E+11	6.58E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	3.04E+09	1.05E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	1.36E+03	2.06E-07	100.00%	2.53E+04	1.11E-02	99.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.06E-07**	--	--	**1.11E-02**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	3.20E+08	8.75E-14	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	3.04E+09	3.95E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	3.04E+08	3.95E-14	0.00%	6.67E+07	1.80E-07	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	3.04E+09	4.61E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	3.04E+10	2.27E-16	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	3.04E+11	5.92E-17	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	3.04E+09	2.43E-15	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	1.36E+03	2.14E-08	100.00%	2.53E+04	1.15E-03	99.98%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.14E-08**	--	--	**1.15E-03**	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	3.20E+08	7.81E-13	87.90%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	3.04E+09	1.18E-14	1.33%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	3.04E+08	7.57E-14	8.51%	6.67E+07	3.45E-07	100.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	3.04E+09	1.15E-14	1.30%	--	--	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	3.04E+10	4.93E-16	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	3.04E+11	1.35E-16	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	3.04E+09	7.90E-15	0.89%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**8.89E-13**	--	--	**3.45E-07**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	1.00E+10	3.04E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**3.04E-09**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	3.20E+08	6.88E-14	71.74%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	3.04E+09	2.40E-15	2.51%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	3.04E+08	2.11E-14	21.97%	6.67E+07	9.60E-08	97.26%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	3.04E+09	2.50E-15	2.61%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	3.04E+10	9.54E-17	0.10%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	3.04E+11	3.95E-17	0.04%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	3.04E+09	9.87E-16	1.03%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	6.67E+11	2.70E-09	2.74%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**9.58E-14**	--	--	**9.87E-08**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	3.20E+08	6.56E-14	22.38%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	3.20E+08	3.75E-14	12.79%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	3.04E+09	1.64E-14	5.61%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	3.04E+08	1.58E-13	53.86%	6.67E+07	7.20E-07	99.67%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	3.04E+09	1.55E-14	5.27%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	3.04E+11	2.40E-16	0.08%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	6.67E+11	2.40E-09	0.33%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.93E-13**	--	--	**7.22E-07**	--
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	6.38E+13	1.00E-17	0.00%	3.33E+08	1.92E-06	49.48%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	2.17E+06	3.23E-10	100.00%	3.33E+09	2.10E-07	5.43%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	1.00E+10	1.75E-06	45.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.23E-10**	--	--	**3.88E-06**	--
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.67E+10	1.01E-05	78.14%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	6.38E+13	1.17E-17	0.00%	3.33E+08	2.25E-06	17.34%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	2.17E+06	1.01E-10	100.00%	3.33E+09	6.60E-08	0.51%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	1.00E+10	5.20E-07	4.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.01E-10**	--	--	**1.30E-05**	--
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	2.17E+06	1.06E-10	100.00%	3.33E+09	6.90E-08	4.79%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	1.00E+10	1.37E-06	95.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.06E-10**	--	--	**1.44E-06**	--
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	6.38E+13	1.57E-17	0.00%	3.33E+08	3.00E-06	73.17%
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	2.17E+06	6.45E-10	100.00%	3.33E+09	4.20E-07	10.24%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	1.00E+10	6.80E-07	16.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**6.45E-10**	--	--	**4.10E-06**	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	1.00E+10	1.24E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.24E-08**	--
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	2.17E+06	5.71E-11	65.42%	3.33E+09	3.72E-08	0.52%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	1.00E+10	1.89E-08	0.27%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	7.01E+08	3.02E-11	34.58%	3.00E+09	7.06E-06	99.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**8.73E-11**	--	--	**7.11E-06**	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	6.38E+13	1.49E-17	100.00%	3.33E+08	2.85E-06	9.62%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	4.34E+11	1.78E-08	0.06%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	1.00E+10	1.00E-08	0.03%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	6.67E+11	3.30E-09	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	3.33E+09	2.67E-05	90.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.49E-17**	--	--	**2.96E-05**	--
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	6.67E+11	1.37E-09	0.00%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	3.33E+09	2.83E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.83E-05**	--
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	6.67E+11	2.52E-08	91.75%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	6.67E+11	2.26E-09	8.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.75E-08**	--
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	3.20E+08	1.64E-14	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	3.20E+08	7.35E-15	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	3.04E+09	5.56E-14	0.03%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	3.04E+08	3.52E-13	0.20%	6.67E+07	1.60E-06	91.85%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	3.04E+09	5.95E-14	0.03%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	3.04E+10	8.93E-16	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	6.67E+11	1.35E-08	0.77%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	3.04E+11	6.84E-16	0.00%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	3.04E+08	9.90E-14	0.06%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	2.17E+06	1.76E-10	99.65%	3.33E+09	1.15E-07	6.57%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	3.04E+09	2.31E-14	0.01%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	1.00E+10	1.26E-08	0.72%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	6.67E+11	1.48E-09	0.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.77E-10**	--	--	**1.75E-06**	--
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	2.17E+06	4.70E-11	100.00%	3.33E+09	3.06E-08	84.13%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	1.00E+10	5.77E-09	15.87%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.70E-11**	--	--	**3.64E-08**	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	2.17E+06	4.32E-10	100.00%	3.33E+09	2.81E-07	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.32E-10**	--	--	**2.81E-07**	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	6.67E+11	1.26E-08	28.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	2.17E+06	3.31E-11	100.00%	3.33E+09	2.15E-08	49.31%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	1.00E+10	6.80E-09	15.58%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	6.67E+11	2.74E-09	6.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.31E-11**	--	--	**4.36E-08**	--
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	2.17E+06	6.98E-11	100.00%	3.33E+09	4.54E-08	93.10%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	1.00E+10	1.43E-09	2.93%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	6.67E+11	1.93E-09	3.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**6.98E-11**	--	--	**4.88E-08**	--
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	6.67E+11	1.31E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.31E-09**	--
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	3.04E+08	4.43E-14	0.07%	6.67E+07	2.02E-07	83.32%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	3.04E+09	5.07E-15	0.01%	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	3.04E+10	1.72E-16	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	3.04E+11	4.34E-17	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	2.17E+06	5.99E-11	99.91%	3.33E+09	3.90E-08	16.11%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	3.04E+09	5.64E-15	0.01%	--	--	--
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	6.67E+11	1.39E-09	0.57%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.99E-11**	--	--	**2.42E-07**	--
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	1.00E+10	4.92E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**4.92E-08**	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	3.04E+09	1.48E-15	3.86%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	3.04E+08	3.29E-14	85.71%	6.67E+07	1.50E-07	100.00%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	3.04E+09	3.95E-15	10.29%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	3.04E+11	5.59E-17	0.15%	--	--	--
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.84E-14**	--	--	**1.50E-07**	--
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	6.67E+11	1.42E-08	88.79%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	6.67E+11	1.80E-09	11.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.60E-08**	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	3.04E+09	1.38E-14	8.44%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	3.04E+08	1.28E-13	78.42%	6.67E+07	5.85E-07	99.77%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	3.04E+09	2.13E-14	13.05%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	3.04E+11	1.54E-16	0.09%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	6.67E+11	1.34E-09	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.64E-13**	--	--	**5.86E-07**	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	3.04E+09	6.25E-14	12.71%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	3.04E+08	3.29E-13	66.91%	6.67E+07	1.50E-06	99.80%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	3.04E+09	8.55E-14	17.40%	--	--	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	3.04E+11	8.22E-16	0.17%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	3.04E+09	1.38E-14	2.81%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	1.00E+10	1.60E-09	0.11%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	6.67E+11	1.33E-09	0.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.92E-13**	--	--	**1.50E-06**	--
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	1.00E+10	1.70E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.70E-09**	--
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	1.00E+10	2.70E-07	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.70E-07**	--
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	7.60E+10	1.00E-15	0.00%	--	--	--
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	2.17E+06	9.95E-11	100.00%	3.33E+09	6.48E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**9.95E-11**	--	--	**6.48E-08**	--
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	3.04E+09	1.79E-14	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	3.04E+08	8.88E-14	0.00%	6.67E+07	4.05E-07	0.06%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	3.04E+09	1.49E-14	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	3.04E+10	5.78E-16	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	3.04E+11	1.93E-16	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	3.04E+09	6.62E-15	0.00%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	1.36E+03	1.18E-08	100.00%	2.53E+04	6.32E-04	99.94%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.18E-08**	--	--	**6.32E-04**	--
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	2.17E+06	1.20E-10	100.00%	3.33E+09	7.80E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.20E-10**	--	--	**7.80E-08**	--
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	2.17E+06	1.34E-10	100.00%	3.33E+09	8.75E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.34E-10**	--	--	**8.75E-08**	--
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	2.17E+06	3.09E-10	100.00%	3.33E+09	2.01E-07	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.09E-10**	--	--	**2.01E-07**	--
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	2.17E+06	1.15E-10	100.00%	3.33E+09	7.50E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.15E-10**	--	--	**7.50E-08**	--
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	2.17E+06	5.58E-10	100.00%	3.33E+09	3.63E-07	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.58E-10**	--	--	**3.63E-07**	--
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	2.36E+07	2.50E-03	100.00%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	2.17E+06	1.52E-10	100.00%	3.33E+09	9.90E-08	0.00%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	1.00E+10	1.02E-08	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.52E-10**	--	--	**2.50E-03**	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	2.17E+06	2.50E-10	100.00%	3.33E+09	1.63E-07	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.50E-10**	--	--	**1.63E-07**	--
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	2.17E+06	1.11E-10	100.00%	3.33E+09	7.20E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.11E-10**	--	--	**7.20E-08**	--
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	3.33E+09	2.71E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.71E-05**	--
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	5.28E+05	1.14E-11	100.00%	5.80E+05	1.04E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.14E-11**	--	--	**1.04E-05**	--
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	5.28E+05	1.70E-11	100.00%	5.80E+05	1.55E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.70E-11**	--	--	**1.55E-05**	--
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	1.67E+11	7.56E-05	99.99%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	1.00E+10	3.89E-09	0.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**7.56E-05**	--
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	1.00E+10	2.18E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.18E-09**	--
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	3.33E+09	2.56E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.56E-05**	--
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	1.00E+10	5.78E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**5.78E-09**	--
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	1.00E+10	1.29E-08	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.29E-08**	--
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	1.00E+10	2.12E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.12E-09**	--
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	7.01E+08	3.78E-11	100.00%	3.00E+09	8.83E-06	22.91%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	3.33E+09	2.97E-05	77.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.78E-11**	--	--	**3.85E-05**	--
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	7.01E+08	2.91E-11	100.00%	3.00E+09	6.80E-06	100.00%

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.91E-11**	--	--	**6.80E-06**	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	6.67E+11	1.53E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**1.53E-09**	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	1.00E+10	8.88E-09	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**8.88E-09**	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	2.17E+06	4.98E-11	100.00%	3.33E+09	3.24E-08	95.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	6.67E+11	1.68E-09	4.92%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**4.98E-11**	--	--	**3.41E-08**	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	6.67E+11	7.65E-09	0.03%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	6.67E+11	3.00E-09	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	3.33E+09	2.81E-05	99.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**0.00E+00**	--	--	**2.81E-05**	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	3.04E+09	2.73E-12	1.14%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	3.04E+08	9.54E-12	3.97%	6.67E+07	4.35E-05	99.66%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	3.04E+09	2.01E-12	0.84%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	3.04E+10	1.35E-13	0.06%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	7.60E+10	1.14E-14	0.00%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	3.04E+11	3.62E-14	0.02%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	3.04E+08	3.95E-12	1.64%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	2.17E+06	2.21E-10	92.07%	3.33E+09	1.44E-07	0.33%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	3.04E+09	6.25E-13	0.26%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	1.00E+10	3.00E-09	0.01%
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	6.67E+11	1.20E-09	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.40E-10**	--	--	**4.36E-05**	--
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	1.94E+08	5.25E-08	0.01%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	3.04E+09	8.77E-15	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	3.04E+08	9.22E-14	0.00%	6.67E+07	4.20E-07	0.07%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	3.04E+09	1.09E-14	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	3.04E+10	3.08E-16	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	3.04E+11	4.57E-17	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	3.04E+08	5.26E-14	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	3.04E+09	5.96E-15	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	1.00E+10	2.20E-09	0.00%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	1.36E+03	1.18E-08	100.00%	2.53E+04	6.32E-04	99.92%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	6.67E+11	1.46E-09	0.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**1.18E-08**	--	--	**6.32E-04**	--
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	1.94E+08	5.15E-08	25.06%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	3.20E+08	1.69E-14	7.94%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	3.20E+08	1.56E-13	73.51%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	3.04E+09	3.29E-15	1.55%	--	--	--

Table B-10. MTCA Method B Inhalation Pathway Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	3.04E+08	3.13E-14	14.70%	6.67E+07	1.42E-07	69.27%
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	3.04E+09	4.61E-15	2.17%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	3.04E+10	2.57E-16	0.12%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	3.04E+11	3.95E-17	0.02%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	1.00E+10	1.00E-08	4.86%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	6.67E+11	1.65E-09	0.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**2.13E-13**	--	--	**2.06E-07**	--
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	3.20E+08	3.75E-14	100.00%	--	--	--
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	1.00E+10	5.85E-09	81.49%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	6.67E+11	1.33E-09	18.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**3.75E-14**	--	--	**7.18E-09**	--
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	3.04E+08	2.20E-13	0.41%	6.67E+07	1.00E-06	7.45%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	7.60E+10	1.36E-15	0.00%	--	--	--
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	3.04E+11	1.51E-16	0.00%	--	--	--
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	1.00E+10	2.16E-09	0.02%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	7.01E+08	5.34E-11	99.59%	3.00E+09	1.25E-05	92.53%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	6.67E+11	1.48E-09	0.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.36E-11**	--	--	**1.35E-05**	--
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	3.04E+09	2.37E-14	4.55%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	3.04E+08	3.95E-13	75.77%	6.67E+07	1.80E-06	99.83%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	3.04E+09	6.91E-14	13.26%	--	--	--
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	7.60E+10	1.58E-15	0.30%	--	--	--
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	3.04E+11	2.96E-16	0.06%	--	--	--
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	3.04E+09	3.16E-14	6.06%	--	--	--
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	1.00E+10	1.60E-09	0.09%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	6.67E+11	1.41E-09	0.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate	--	--	--	--	--	--	**5.21E-13**	--	--	**1.80E-06**	--

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,654	2.00E+04	No
100-K-102_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	8,047	2.50E+05	No
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,032	2.00E+04	No
100-K-102_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7,073	2.50E+05	No
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,510	2.00E+04	No
100-K-102_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,040	2.50E+05	No
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	2.00E+04	No
100-K-105_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,600	2.50E+05	No
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,200	2.00E+04	No
100-K-105_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,700	2.50E+05	No
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	2.00E+04	No
100-K-105_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,300	2.50E+05	No
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,570	2.00E+04	No
100-K-106_Overburden_1	non-Rad	Lead	7439-92-1	ug/kg	5,110	2.50E+05	No
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,220	2.00E+04	No
100-K-106_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	6,010	2.50E+05	No
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,460	2.00E+04	No
100-K-106_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	5,050	2.50E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,170	2.00E+04	No
100-K-106_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	7,020	2.50E+05	No
100-K-106_Overburden_Focused_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	43,000	2.00E+06	No
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	992	2.00E+04	No
100-K-106_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,990	2.50E+05	No
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,320	2.00E+04	No
100-K-106_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,410	2.50E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1,480	2.00E+04	No
100-K-106_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	2,450	2.50E+05	No
100-K-106_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,500	2.00E+06	No
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	1,750	2.00E+04	No
100-K-106_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	3,340	2.50E+05	No
100-K-106_Shallow_Focused_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	46,000	2.00E+06	No
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1,010	2.00E+04	No
100-K-106_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	1,830	2.50E+05	No
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,730	2.00E+04	No
100-K-106_Shallow_Focused_5	non-Rad	Lead	7439-92-1	ug/kg	2,760	2.50E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No
100-K-106_Shallow_Focused_6	non-Rad	Lead	7439-92-1	ug/kg	3,380	2.50E+05	No
100-K-106_Shallow_Focused_6	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	50,000	2.00E+06	No
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,190	2.00E+04	No
100-K-109_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,032	2.50E+05	No
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	2.00E+04	No
100-K-109_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,200	2.50E+05	No
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,694	2.00E+04	No
100-K-110_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,648	2.50E+05	No
100-K-110_Shallow_focused	non-Rad	Lead	7439-92-1	ug/kg	5,630	2.50E+05	No
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,120	2.00E+04	No
100-K-14, 126-KE-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,373	2.50E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Arsenic	7440-38-2	ug/kg	2,390	2.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Lead	7439-92-1	ug/kg	4,184	2.50E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Arsenic	7440-38-2	ug/kg	1,750	2.00E+04	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Lead	7439-92-1	ug/kg	3,900	2.50E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,335	2.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,780	2.50E+05	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	2.00E+04	No
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,100	2.50E+05	No
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	2.00E+04	No
100-K-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	63,200	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	4,321	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,538	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	4,430	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	non-Rad	Lead	7439-92-1	ug/kg	2,860	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,376	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,602	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1,640	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	3,190	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	3,520	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	2,940	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	ug/kg	2,830	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Lead	7439-92-1	ug/kg	5,150	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	ug/kg	2,990	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Lead	7439-92-1	ug/kg	6,080	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Lead	7439-92-1	ug/kg	42,200	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	ug/kg	2,680	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Lead	7439-92-1	ug/kg	5,710	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	ug/kg	2,830	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Lead	7439-92-1	ug/kg	4,020	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	ug/kg	3,090	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Lead	7439-92-1	ug/kg	24,100	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	ug/kg	2,610	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Lead	7439-92-1	ug/kg	4,780	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Lead	7439-92-1	ug/kg	3,690	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	ug/kg	1,290	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Lead	7439-92-1	ug/kg	2,070	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	ug/kg	2,390	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Lead	7439-92-1	ug/kg	5,070	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	ug/kg	1,710	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Lead	7439-92-1	ug/kg	3,330	2.50E+05	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	ug/kg	3,830	2.00E+04	No
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Lead	7439-92-1	ug/kg	6,840	2.50E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,560	2.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,540	2.50E+05	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,741	2.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5,472	2.50E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,726	2.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,721	2.50E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	2.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	3,800	2.50E+05	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	6,900	2.50E+05	No
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,190	2.00E+04	No
100-K-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	8,110	2.50E+05	No
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	2.00E+04	No
100-K-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,460	2.50E+05	No
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	2.00E+04	No
100-K-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	36,000	2.50E+05	No
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
100-K-31_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	43,400	2.50E+05	No
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,000	2.00E+04	No
100-K-32_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	42,800	2.50E+05	No
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,700	2.00E+04	No
100-K-33_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,800	2.50E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	ug/kg	3,695	2.00E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Lead	7439-92-1	ug/kg	7,863	2.50E+05	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3,173	2.00E+04	No
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Lead	7439-92-1	ug/kg	6,796	2.50E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,670	2.00E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	24,110	2.50E+05	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	14,800	2.00E+04	No
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	51,100	2.50E+05	No
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,620	2.00E+04	No
100-K-34_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,960	2.50E+05	No
100-K-36_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,990	2.00E+04	No
100-K-36_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	13,500	2.50E+05	No
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,440	2.00E+04	No
100-K-36_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,980	2.50E+05	No
100-K-4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,884	2.00E+04	No
100-K-4_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,275	2.50E+05	No
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,410	2.00E+04	No
100-K-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,325	2.50E+05	No
100-K-46_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,180	2.00E+04	No
100-K-46_Deep	non-Rad	Lead	7439-92-1	ug/kg	6,930	2.50E+05	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,330	2.00E+04	No
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	non-Rad	Lead	7439-92-1	ug/kg	2,070	2.50E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,752	2.00E+04	No
100-K-50, 1607-K2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,809	2.50E+05	No
100-K-50, 1607-K2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,217	2.00E+06	No
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,836	2.00E+04	No
100-K-53_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,593	2.50E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	2.00E+04	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,922	2.50E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,339	2.00E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	7,036	2.50E+05	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,925	2.00E+04	No
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,256	2.50E+05	No
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,280	2.00E+04	No
100-K-6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,070	2.50E+05	No
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,290	2.00E+04	No
100-K-62_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,330	2.50E+05	No
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,008	2.00E+04	No
100-K-63_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,659	2.50E+05	No
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,876	2.00E+04	No
100-K-63_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,047	2.50E+05	No
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,888	2.00E+04	No
100-K-77_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,200	2.50E+05	No
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,330	2.00E+04	No
100-K-78_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,380	2.50E+05	No
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,390	2.00E+04	No
100-K-84_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,746	2.50E+05	No
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
100-K-85_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,800	2.50E+05	No
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
100-K-86_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,000	2.50E+05	No
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	84,000	2.00E+06	No
100-K-86_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	2.00E+06	No
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9,100	2.00E+04	No
100-K-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,100	2.50E+05	No
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,084	2.00E+04	No
100-K-89, 600-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,445	2.50E+05	No
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	31,656	2.00E+06	No
100-K-89, 600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,899	2.00E+06	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	15,400	2.00E+04	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	22,900	2.50E+05	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	90,000	2.00E+06	No
100-K-89, 600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	140,000	2.00E+06	No
100-K-90_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	2.50E+05	No
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	2.00E+04	No
100-K-91_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,300	2.50E+05	No
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	2.00E+04	No
100-K-92_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,300	2.50E+05	No
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	14,000	2.00E+06	No
100-K-92_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	29,000	2.00E+06	No
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	38,541	2.00E+06	No
100-K-95_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	39,020	2.00E+06	No
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No
116-KE-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,300	2.50E+05	No
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	2.00E+04	No
116-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,500	2.50E+05	No
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No
118-K-1_Overburden_12	non-Rad	Lead	7439-92-1	ug/kg	4,500	2.50E+05	No
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	ug/kg	2,760	2.00E+04	No
118-K-1_Overburden_13	non-Rad	Lead	7439-92-1	ug/kg	4,980	2.50E+05	No
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
118-K-1_P1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,680	2.50E+05	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,288	2.00E+04	No
118-K-1_P1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,680	2.50E+05	No
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,819	2.00E+04	No
118-K-1_P1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,143	2.50E+05	No
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,303	2.00E+04	No
118-K-1_P1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	6,506	2.50E+05	No
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,708	2.00E+04	No
118-K-1_P1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	5,650	2.50E+05	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	2.00E+04	No
118-K-1_P1_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	6,600	2.50E+05	No
118-K-1_P2_Deep_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,380	2.00E+04	No
118-K-1_P2_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	3,034	2.50E+05	No
118-K-1_P2_Deep_3	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	2.00E+04	No
118-K-1_P2_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	2,370	2.50E+05	No
118-K-1_P2_Deep_4	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	2.00E+04	No
118-K-1_P2_Deep_4	non-Rad	Lead	7439-92-1	ug/kg	3,380	2.50E+05	No
118-K-1_P2_Deep_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,850	2.00E+04	No
118-K-1_P2_Deep_5	non-Rad	Lead	7439-92-1	ug/kg	2,370	2.50E+05	No
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,110	2.00E+06	No
118-K-1_P2_Deep_5	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	53,100	2.00E+06	No
118-K-1_P2_Deep_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,120	2.00E+04	No
118-K-1_P2_Deep_6	non-Rad	Lead	7439-92-1	ug/kg	3,266	2.50E+05	No
118-K-1_P2_Deep_7	non-Rad	Arsenic	7440-38-2	ug/kg	1,820	2.00E+04	No
118-K-1_P2_Deep_7	non-Rad	Lead	7439-92-1	ug/kg	3,270	2.50E+05	No
118-K-1_P2_Deep_8	non-Rad	Arsenic	7440-38-2	ug/kg	2,093	2.00E+04	No
118-K-1_P2_Deep_8	non-Rad	Lead	7439-92-1	ug/kg	3,744	2.50E+05	No
118-K-1_P2_Deep_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,910	2.00E+04	No
118-K-1_P2_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	8,410	2.50E+05	No
118-K-1_P2_Deep_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,130	2.00E+04	No
118-K-1_P2_Deep_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	2,870	2.50E+05	No
118-K-1_P2_Deep_Focused_7	non-Rad	Arsenic	7440-38-2	ug/kg	2,080	2.00E+04	No
118-K-1_P2_Deep_Focused_7	non-Rad	Lead	7439-92-1	ug/kg	3,290	2.50E+05	No
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,420	2.00E+04	No
118-K-1_P2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,360	2.50E+05	No
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	ug/kg	3,370	2.00E+04	No
118-K-1_P2_Shallow_10	non-Rad	Lead	7439-92-1	ug/kg	4,510	2.50E+05	No
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	ug/kg	2,973	2.00E+04	No
118-K-1_P2_Shallow_11A	non-Rad	Lead	7439-92-1	ug/kg	5,321	2.50E+05	No
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3,228	2.00E+04	No
118-K-1_P2_Shallow_11B	non-Rad	Lead	7439-92-1	ug/kg	5,250	2.50E+05	No
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	ug/kg	3,653	2.00E+04	No
118-K-1_P2_Shallow_11C	non-Rad	Lead	7439-92-1	ug/kg	5,085	2.50E+05	No
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	ug/kg	3,120	2.00E+04	No
118-K-1_P2_Shallow_11D	non-Rad	Lead	7439-92-1	ug/kg	5,756	2.50E+05	No
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	ug/kg	3,772	2.00E+04	No
118-K-1_P2_Shallow_11E	non-Rad	Lead	7439-92-1	ug/kg	6,070	2.50E+05	No
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	ug/kg	3,379	2.00E+04	No
118-K-1_P2_Shallow_11F	non-Rad	Lead	7439-92-1	ug/kg	5,510	2.50E+05	No
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	ug/kg	2,690	2.00E+04	No
118-K-1_P2_Shallow_11G	non-Rad	Lead	7439-92-1	ug/kg	4,750	2.50E+05	No
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	ug/kg	2,774	2.00E+04	No
118-K-1_P2_Shallow_11H	non-Rad	Lead	7439-92-1	ug/kg	7,929	2.50E+05	No
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,870	2.00E+04	No
118-K-1_P2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,338	2.50E+05	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,875	2.00E+04	No
118-K-1_P2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,339	2.50E+05	No
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	3,167	2.00E+04	No
118-K-1_P2_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	4,059	2.50E+05	No
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,930	2.00E+04	No
118-K-1_P2_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	3,670	2.50E+05	No
118-K-1_P2_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,100	2.00E+06	No
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	2,540	2.00E+04	No
118-K-1_P2_Shallow_6	non-Rad	Lead	7439-92-1	ug/kg	4,466	2.50E+05	No
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3,546	2.00E+04	No
118-K-1_P2_Shallow_7	non-Rad	Lead	7439-92-1	ug/kg	11,142	2.50E+05	No
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	ug/kg	3,422	2.00E+04	No
118-K-1_P2_Shallow_8	non-Rad	Lead	7439-92-1	ug/kg	6,672	2.50E+05	No
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	2.00E+04	No
118-K-1_P2_Shallow_9	non-Rad	Lead	7439-92-1	ug/kg	5,349	2.50E+05	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,980	2.00E+04	No
118-K-1_P2_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	2,690	2.50E+05	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1,560	2.00E+04	No
118-K-1_P2_Shallow_Focused_4	non-Rad	Lead	7439-92-1	ug/kg	2,020	2.50E+05	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	2.00E+04	No
118-K-1_P2_Shallow_Focused_5	non-Rad	Lead	7439-92-1	ug/kg	1,630	2.50E+05	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	3,740	2.00E+04	No
118-K-1_P2_Shallow_Focused_6	non-Rad	Lead	7439-92-1	ug/kg	4,810	2.50E+05	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	ug/kg	4,160	2.00E+04	No
118-K-1_P2_Shallow_Focused_8	non-Rad	Lead	7439-92-1	ug/kg	3,480	2.50E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	ug/kg	2,804	2.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Lead	7439-92-1	ug/kg	5,257	2.50E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	ug/kg	4,053	2.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Lead	7439-92-1	ug/kg	6,987	2.50E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,570	2.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,893	2.50E+05	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	2.00E+04	No
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	2.50E+05	No
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	2.00E+04	No
128-K-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	2.50E+05	No
128-K-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	ug/kg	14,400	1.00E+06	No
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,263	2.00E+04	No
128-K-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,642	2.50E+05	No
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,425	2.00E+06	No
128-K-2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,568	2.00E+06	No
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	2.00E+04	No
128-K-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	28,300	2.50E+05	No
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	560,000	2.00E+06	No
128-K-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1.20E+06	2.00E+06	No
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,770	2.00E+04	No
132-KE-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,340	2.50E+05	No
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,490	2.00E+04	No
1607-K3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	23,100	2.50E+05	No

Table B-11. Comparison of EPCs for the 100-K Source OUs Waste Site Decision Units to MTCB-A Values for Arsenic, Lead, and Total Petroleum Hydrocarbons

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	MTCA Method A Cleanup Level	EPC Exceeds Cleanup Level (Yes/No)?
600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	10,358	2.00E+04	No
600-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,752	2.50E+05	No
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	22,077	2.00E+06	No
600-29_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	31,433	2.00E+06	No
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,800	2.00E+04	No
600-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	21,700	2.50E+05	No
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	20,000	2.00E+06	No
600-29_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	39,000	2.00E+06	No

Table B-12. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	0.00E+00	--	0.00E+00	--	0.00E+00	2.43E-01	--
100-K-102_Shallow_2	0.00E+00	--	0.00E+00	--	0.00E+00	7.70E-02	--
100-K-102_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.96E-01	--
100-K-105_Shallow_1	0.00E+00	--	0.00E+00	--	0.00E+00	1.76E-03	--
100-K-105_Shallow_2	0.00E+00	--	0.00E+00	--	0.00E+00	1.45E-03	--
100-K-105_Shallow_3	0.00E+00	--	0.00E+00	--	0.00E+00	1.28E-03	--
100-K-106_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	4.34E-04	--
100-K-106_Shallow_Focused_1	0.00E+00	--	0.00E+00	--	0.00E+00	4.64E-04	--
100-K-106_Shallow_Focused_2	0.00E+00	--	0.00E+00	--	0.00E+00	1.65E-03	--
100-K-106_Shallow_Focused_3	0.00E+00	--	0.00E+00	--	0.00E+00	1.79E-03	--
100-K-106_Shallow_Focused_4	0.00E+00	--	0.00E+00	--	0.00E+00	4.02E-04	--
100-K-106_Shallow_Focused_5	0.00E+00	--	0.00E+00	--	0.00E+00	6.31E-04	--
100-K-106_Shallow_Focused_6	0.00E+00	--	0.00E+00	--	0.00E+00	5.26E-04	--
100-K-109_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	7.47E-03	--
100-K-109_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	7.70E-03	--
100-K-110_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	7.65E-01	--
100-K-110_Shallow_focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.80E-02	--
100-K-14, 126-KE-2_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	4.17E-01	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	2.28E-01	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.12E-02	--
100-K-29_Shallow_Focused	1.96E-07	--	0.00E+00	--	1.96E-07	7.69E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	1.88E-07	--	4.20E-06	--	4.39E-06	2.95E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	3.53E-08	--	0.00E+00	--	3.53E-08	8.38E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	1.00E-09	--	1.37E-08	--	1.47E-08	7.11E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	0.00E+00	--	0.00E+00	--	0.00E+00	5.40E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	1.81E-08	--	0.00E+00	--	1.81E-08	1.29E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	1.33E-07	--	0.00E+00	--	1.33E-07	3.40E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	1.78E-07	--	1.44E-08	--	1.92E-07	1.67E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	4.57E-08	--	0.00E+00	--	4.57E-08	2.10E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	3.66E-09	--	1.44E-08	--	1.80E-08	7.47E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	1.10E-09	--	0.00E+00	--	1.10E-09	6.80E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	2.45E-07	--	0.00E+00	--	2.45E-07	6.72E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	1.19E-08	--	6.59E-05	--	6.59E-05	1.03E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	0.00E+00	--	0.00E+00	--	0.00E+00	4.58E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	1.02E-07	--	1.96E-08	--	1.22E-07	4.04E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	7.14E-08	--	0.00E+00	--	7.14E-08	1.85E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	5.33E-07	--	0.00E+00	--	5.33E-07	1.56E-02	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	0.00E+00	--	8.45E-05	--	8.45E-05	6.73E-03	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	5.22E-08	--	0.00E+00	--	5.22E-08	5.32E-03	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	1.24E-07	--	8.49E-05	--	8.50E-05	5.73E-02	--

Table B-12. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-3_Shallow_1	0.00E+00	--	1.23E-05	--	1.23E-05	1.80E-02	--
100-K-3_Shallow_2	0.00E+00	--	2.94E-05	--	2.94E-05	6.87E-04	--
100-K-30_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	7.40E-01	--
100-K-31_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.38E-01	--
100-K-32_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	5.72E-01	--
100-K-33_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	3.02E-01	--
100-K-34, 100-K-102, 1607-K3_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	4.51E-02	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	5.04E-01	--
100-K-34_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	2.40E-01	--
100-K-36_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	6.87E-04	--
100-K-4_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	1.69E-02	--
100-K-50, 1607-K2_Shallow	1.95E-07	--	0.00E+00	--	1.95E-07	8.24E-02	--
100-K-53_Shallow	0.00E+00	--	2.64E-05	--	2.64E-05	1.44E-02	--
100-K-55:1_Shallow	0.00E+00	--	3.98E-05	--	3.98E-05	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	5.99E-05	--	5.99E-05	0.00E+00	--
100-K-56:1_Shallow	0.00E+00	--	9.70E-05	--	9.70E-05	0.00E+00	--
100-K-56:1_Shallow_Focused	0.00E+00	--	1.20E-04	--	1.20E-04	3.90E-03	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	0.00E+00	--	1.66E-04	--	1.66E-04	1.84E-03	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	0.00E+00	--	1.01E-03	Carbon-14 (1.72E-04) Cesium-137 (3.52E-04) Strontium-90 (4.82E-04)	1.01E-03	2.23E-03	--
100-K-6_Shallow	0.00E+00	--	4.30E-05	--	4.30E-05	6.52E-04	--
100-K-62_Shallow	0.00E+00	--	5.85E-05	--	5.85E-05	4.85E-04	--
100-K-63_Shallow_1	0.00E+00	--	1.02E-04	--	1.02E-04	1.10E-02	--
100-K-63_Shallow_2	0.00E+00	--	6.96E-06	--	6.96E-06	1.79E-02	--
100-K-77_Shallow	1.68E-08	--	0.00E+00	--	1.68E-08	4.25E-02	--
100-K-78_Shallow_Focused	0.00E+00	--	1.31E-05	--	1.31E-05	1.25E-02	--
100-K-84_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	2.81E-02	--
100-K-85_Shallow_Focused	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
100-K-86_Shallow_Focused	1.17E-08	--	0.00E+00	--	1.17E-08	1.51E-02	--
100-K-88_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	3.39E-02	--
100-K-89, 600-29_Shallow	4.97E-08	--	0.00E+00	--	4.97E-08	1.75E-02	--
100-K-89, 600-29_Shallow_Focused	1.49E-07	--	0.00E+00	--	1.49E-07	1.50E-01	--
100-K-90_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	7.08E-04	--
100-K-91_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	1.17E-01	--
100-K-92_Shallow_Focused	1.06E-09	--	0.00E+00	--	1.06E-09	5.20E-03	--
100-K-95_Shallow	3.92E-08	--	0.00E+00	--	3.92E-08	1.22E-03	--
116-K-1_Shallow	0.00E+00	--	1.12E-04	--	1.12E-04	1.08E-03	--
116-K-2_Shallow_1	0.00E+00	--	2.31E-05	--	2.31E-05	2.79E-03	--
116-K-2_Shallow_2	0.00E+00	--	6.92E-05	--	6.92E-05	1.04E-03	--
116-KE-4_Shallow	0.00E+00	--	3.60E-05	--	3.60E-05	5.04E-03	--
116-KE-5_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	6.24E-03	--
116-KW-3_Shallow	0.00E+00	--	5.21E-05	--	5.21E-05	2.26E-03	--
116-KW-4_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	1.00E-03	--

Table B-12. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
118-K-1_P1_Shallow_1	0.00E+00	--	0.00E+00	--	0.00E+00	1.47E-03	--
118-K-1_P1_Shallow_2	0.00E+00	--	9.11E-06	--	9.11E-06	1.20E-02	--
118-K-1_P1_Shallow_3	0.00E+00	--	0.00E+00	--	0.00E+00	8.28E-01	--
118-K-1_P1_Shallow_4	0.00E+00	--	2.47E-04	Strontium-90 (2.43E-04)	2.47E-04	1.44E-02	--
118-K-1_P1_Shallow_5	1.20E-11	--	9.77E-05	--	9.77E-05	1.65E-03	--
118-K-1_P1_Shallow_Focused_1	1.80E-11	--	1.71E-04	--	1.71E-04	1.52E-03	--
118-K-1_P2_Shallow_1	0.00E+00	--	6.62E-06	--	6.62E-06	0.00E+00	--
118-K-1_P2_Shallow_10	0.00E+00	--	1.09E-06	--	1.09E-06	1.11E-02	--
118-K-1_P2_Shallow_11A	0.00E+00	--	0.00E+00	--	0.00E+00	1.84E-03	--
118-K-1_P2_Shallow_11B	0.00E+00	--	1.08E-06	--	1.08E-06	2.42E-03	--
118-K-1_P2_Shallow_11C	0.00E+00	--	1.07E-06	--	1.07E-06	1.61E-01	--
118-K-1_P2_Shallow_11D	0.00E+00	--	1.42E-06	--	1.42E-06	1.67E-03	--
118-K-1_P2_Shallow_11E	0.00E+00	--	2.54E-06	--	2.54E-06	8.48E-03	--
118-K-1_P2_Shallow_11F	0.00E+00	--	2.21E-06	--	2.21E-06	3.23E-03	--
118-K-1_P2_Shallow_11G	0.00E+00	--	2.32E-06	--	2.32E-06	2.15E-01	--
118-K-1_P2_Shallow_11H	0.00E+00	--	9.95E-06	--	9.95E-06	1.22E-03	--
118-K-1_P2_Shallow_2	0.00E+00	--	7.57E-06	--	7.57E-06	0.00E+00	--
118-K-1_P2_Shallow_3	0.00E+00	--	1.46E-06	--	1.46E-06	0.00E+00	--
118-K-1_P2_Shallow_4	0.00E+00	--	9.83E-06	--	9.83E-06	0.00E+00	--
118-K-1_P2_Shallow_5	0.00E+00	--	9.90E-06	--	9.90E-06	3.78E-03	--
118-K-1_P2_Shallow_6	0.00E+00	--	7.83E-06	--	7.83E-06	0.00E+00	--
118-K-1_P2_Shallow_7	0.00E+00	--	1.43E-06	--	1.43E-06	5.27E-01	--
118-K-1_P2_Shallow_8	0.00E+00	--	2.16E-06	--	2.16E-06	0.00E+00	--
118-K-1_P2_Shallow_9	0.00E+00	--	1.47E-06	--	1.47E-06	2.94E-03	--
118-K-1_P2_Shallow_Focused_3	0.00E+00	--	2.12E-06	--	2.12E-06	8.91E-01	--
118-K-1_P2_Shallow_Focused_4	0.00E+00	--	3.80E-06	--	3.80E-06	0.00E+00	--
118-K-1_P2_Shallow_Focused_5	0.00E+00	--	1.64E-06	--	1.64E-06	0.00E+00	--
118-K-1_P2_Shallow_Focused_6	0.00E+00	--	1.88E-06	--	1.88E-06	1.29E-02	--
118-K-1_P2_Shallow_Focused_8	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	5.32E-03	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.53E-01	--
128-K-1_Shallow_Focused	5.79E-06	Benzo(a)pyrene (2.90E-06) Dibenz(a,h)anthracene (1.20E-06)	0.00E+00	--	5.79E-06	1.35E-01	--
128-K-2_Shallow	5.19E-08	--	0.00E+00	--	5.19E-08	2.76E-02	--
128-K-2_Shallow_Focused	1.23E-07	--	0.00E+00	--	1.23E-07	5.02E-02	--
132-KE-1_Shallow	0.00E+00	--	1.79E-05	--	1.79E-05	6.67E-04	--
1607-K3_Shallow	2.40E-08	--	0.00E+00	--	2.40E-08	1.73E-02	--
600-29_Shallow	6.85E-08	--	0.00E+00	--	6.85E-08	5.41E-02	--
600-29_Shallow_Focused	1.60E-07	--	0.00E+00	--	1.60E-07	3.17E-02	--

Table B-13. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	6.86E-11	--	5.56E-07	--
100-K-102_Shallow_2	1.51E-17	--	3.01E-06	--
100-K-102_Shallow_Focused	0.00E+00	--	4.15E-04	--
100-K-105_Shallow_1	1.34E-10	--	8.70E-08	--
100-K-105_Shallow_2	1.06E-10	--	6.90E-08	--
100-K-105_Shallow_3	7.37E-11	--	4.80E-08	--
100-K-106_Shallow	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_1	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_2	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_3	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_4	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_5	0.00E+00	--	0.00E+00	--
100-K-106_Shallow_Focused_6	0.00E+00	--	0.00E+00	--
100-K-109_Shallow	0.00E+00	--	9.14E-09	--
100-K-109_Shallow_Focused	7.69E-11	--	5.43E-08	--
100-K-110_Shallow	9.16E-11	--	1.05E-07	--
100-K-110_Shallow_focused	2.93E-17	--	5.62E-06	--
100-K-14, 126-KE-2_Shallow	2.15E-11	--	3.22E-05	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	1.07E-10	--	2.63E-05	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	3.52E-10	--	2.61E-07	--
100-K-29_Shallow_Focused	1.47E-09	--	9.65E-07	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	2.88E-08	--	1.54E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	1.69E-08	--	9.08E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	3.29E-15	--	1.50E-08	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	0.00E+00	--	0.00E+00	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	3.17E-08	--	1.70E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	4.37E-13	--	9.30E-07	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	5.86E-13	--	1.65E-06	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	1.50E-13	--	4.65E-07	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	1.20E-14	--	3.60E-08	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	3.62E-15	--	1.65E-08	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	8.05E-13	--	1.81E-06	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	3.91E-14	--	1.12E-07	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	0.00E+00	--	0.00E+00	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	2.06E-07	--	1.11E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	2.14E-08	--	1.15E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	8.89E-13	--	3.45E-07	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	0.00E+00	--	0.00E+00	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	9.58E-14	--	9.87E-08	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	2.93E-13	--	7.22E-07	--
100-K-3_Shallow_1	0.00E+00	--	0.00E+00	--
100-K-3_Shallow_2	0.00E+00	--	0.00E+00	--
100-K-30_Shallow_Focused	3.23E-10	--	3.88E-06	--
100-K-31_Shallow_Focused	1.01E-10	--	1.30E-05	--
100-K-32_Shallow_Focused	1.06E-10	--	1.44E-06	--
100-K-33_Shallow_Focused	6.45E-10	--	4.10E-06	--
100-K-34, 100-K-102, 1607-K3_Shallow	8.73E-11	--	7.11E-06	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	1.49E-17	--	2.96E-05	--
100-K-34_Shallow	0.00E+00	--	2.83E-05	--

Table B-13. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-36_Shallow	0.00E+00	--	0.00E+00	--
100-K-4_Shallow	0.00E+00	--	2.75E-08	--
100-K-50, 1607-K2_Shallow	1.77E-10	--	1.75E-06	--
100-K-53_Shallow	4.70E-11	--	3.64E-08	--
100-K-55:1_Shallow	0.00E+00	--	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	0.00E+00	--
100-K-56:1_Shallow	0.00E+00	--	0.00E+00	--
100-K-56:1_Shallow_Focused	4.32E-10	--	2.81E-07	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	0.00E+00	--	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	0.00E+00	--	0.00E+00	--
100-K-6_Shallow	0.00E+00	--	0.00E+00	--
100-K-62_Shallow	0.00E+00	--	0.00E+00	--
100-K-63_Shallow_1	6.98E-11	--	4.88E-08	--
100-K-63_Shallow_2	0.00E+00	--	1.31E-09	--
100-K-77_Shallow	5.99E-11	--	2.42E-07	--
100-K-78_Shallow_Focused	0.00E+00	--	0.00E+00	--
100-K-84_Shallow	0.00E+00	--	4.92E-08	--
100-K-85_Shallow_Focused	0.00E+00		0.00E+00	
100-K-86_Shallow_Focused	3.84E-14	--	1.50E-07	--
100-K-88_Shallow_Focused	0.00E+00	--	1.60E-08	--
100-K-89, 600-29_Shallow	1.64E-13	--	5.86E-07	--
100-K-89, 600-29_Shallow_Focused	4.92E-13	--	1.50E-06	--
100-K-90_Shallow_Focused	0.00E+00	--	1.70E-09	--
100-K-91_Shallow_Focused	0.00E+00	--	2.70E-07	--
100-K-92_Shallow_Focused	9.95E-11	--	6.48E-08	--
100-K-95_Shallow	1.18E-08	--	6.32E-04	--
116-K-1_Shallow	1.20E-10	--	7.80E-08	--
116-K-2_Shallow_1	3.09E-10	--	2.01E-07	--
116-K-2_Shallow_2	1.15E-10	--	7.50E-08	--
116-KE-4_Shallow	5.58E-10	--	3.63E-07	--
116-KE-5_Shallow_Focused	1.52E-10	--	2.50E-03	--
116-KW-3_Shallow	2.50E-10	--	1.63E-07	--
116-KW-4_Shallow_Focused	1.11E-10	--	7.20E-08	--
118-K-1_P1_Shallow_1	0.00E+00	--	0.00E+00	--
118-K-1_P1_Shallow_2	0.00E+00	--	0.00E+00	--
118-K-1_P1_Shallow_3	0.00E+00	--	2.71E-05	--
118-K-1_P1_Shallow_4	0.00E+00	--	0.00E+00	--
118-K-1_P1_Shallow_5	1.14E-11	--	1.04E-05	--
118-K-1_P1_Shallow_Focused_1	1.70E-11	--	1.55E-05	--
118-K-1_P2_Shallow_1	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_10	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_11A	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_11B	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_11C	0.00E+00	--	7.56E-05	--
118-K-1_P2_Shallow_11D	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_11E	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_11F	0.00E+00	--	2.18E-09	--
118-K-1_P2_Shallow_11G	0.00E+00	--	2.56E-05	--
118-K-1_P2_Shallow_11H	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_2	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_3	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_4	0.00E+00	--	0.00E+00	--

Table B-13. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
118-K-1_P2_Shallow_5	0.00E+00	--	5.78E-09	--
118-K-1_P2_Shallow_6	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_7	0.00E+00	--	1.29E-08	--
118-K-1_P2_Shallow_8	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_9	0.00E+00	--	2.12E-09	--
118-K-1_P2_Shallow_Focused_3	3.78E-11	--	3.85E-05	--
118-K-1_P2_Shallow_Focused_4	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_Focused_5	0.00E+00	--	0.00E+00	--
118-K-1_P2_Shallow_Focused_6	2.91E-11	--	6.80E-06	--
118-K-1_P2_Shallow_Focused_8	0.00E+00		0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	4.98E-11	--	3.41E-08	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	0.00E+00	--	2.81E-05	--
128-K-1_Shallow_Focused	2.40E-10	--	4.36E-05	--
128-K-2_Shallow	1.18E-08	--	6.32E-04	--
128-K-2_Shallow_Focused	2.13E-13	--	2.06E-07	--
132-KE-1_Shallow	0.00E+00	--	0.00E+00	--
1607-K3_Shallow	3.75E-14	--	7.18E-09	--
600-29_Shallow	5.36E-11	--	1.35E-05	--
600-29_Shallow_Focused	5.21E-13	--	1.80E-06	--

Table B-14. Summary of Residential Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	0.00E+00	--	0.00E+00	--	0.00E+00	6.50E-04	--
100-K-106_Overburden_2	0.00E+00	--	0.00E+00	--	0.00E+00	1.88E-03	--
100-K-106_Overburden_3	0.00E+00	--	0.00E+00	--	0.00E+00	6.25E-04	--
100-K-106_Overburden_Focused_2	0.00E+00	--	0.00E+00	--	0.00E+00	6.21E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	0.00E+00	--	0.00E+00	--	0.00E+00	7.90E-03	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	0.00E+00	--	0.00E+00	--	0.00E+00	2.56E-01	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	0.00E+00	--	4.25E-06	--	4.25E-06	1.94E-03	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	0.00E+00	--	0.00E+00	--	0.00E+00	2.33E-02	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	0.00E+00	--	0.00E+00	--	0.00E+00	6.11E-03	--
100-K-55:1_Overburden	0.00E+00	--	1.23E-05	--	1.23E-05	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	0.00E+00	--	5.29E-05	--	5.29E-05	2.11E-02	--
116-K-1_Overburden	0.00E+00	--	4.18E-05	--	4.18E-05	0.00E+00	--
116-K-2_Overburden	0.00E+00	--	5.29E-06	--	5.29E-06	1.22E-03	--
118-K-1_Overburden_12	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
118-K-1_Overburden_13	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	0.00E+00	--	0.00E+00	--	0.00E+00	3.22E-03	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	0.00E+00	--	0.00E+00	--	0.00E+00	2.36E-02	--

Table B-15. Summary of MTCA Method B Inhalation Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	0.00E+00	--	0.00E+00	--
100-K-106_Overburden_2	0.00E+00	--	0.00E+00	--
100-K-106_Overburden_3	0.00E+00	--	0.00E+00	--
100-K-106_Overburden_Focused_2	0.00E+00	--	0.00E+00	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	0.00E+00	--	3.53E-09	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	8.01E-11	--	2.85E-05	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	0.00E+00	--	3.04E-09	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	0.00E+00	--	1.24E-08	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	0.00E+00	--	0.00E+00	--
100-K-55:1_Overburden	0.00E+00	--	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	3.31E-11	--	4.36E-08	--
116-K-1_Overburden	0.00E+00	--	0.00E+00	--
116-K-2_Overburden	1.34E-10	--	8.75E-08	--
118-K-1_Overburden_12	0.00E+00		0.00E+00	
118-K-1_Overburden_13	0.00E+00		0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	0.00E+00	--	1.53E-09	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	0.00E+00	--	8.88E-09	--

Table B-16. Summary of Residential Scenario Risk Estimates and Primary Contributors to Risk For Deep Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Radiological Cancer Risk	Radiological Risk Drivers
100-K-3, 100-K-36, 100-K-79:7_Deep	3.16E-05	--
100-K-3, 100-K-36, 100-K-79:7_Deep_Focused_1	2.72E-04	Strontium-90 (2.72E-04)
100-K-3, 100-K-36, 100-K-79:7_Deep_P4P5	2.37E-04	Strontium-90 (2.37E-04)
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Deep_Focused_1	1.79E-03	Cesium-137 (1.09E-03) Strontium-90 (7.02E-04)
100-K-36_Deep_Focused	0.00E+00	--
100-K-4_Deep	0.00E+00	--
100-K-46_Deep	1.94E-04	Cesium-137 (1.41E-04)
100-K-47, 100-K-69, 100-K-70, 100-K-71_Deep	1.44E-04	Strontium-90 (1.23E-04)
100-K-55:1_Deep	1.35E-04	--
100-K-56:1_Deep	1.54E-03	Cesium-137 (5.92E-04) Europium-152 (8.72E-04)
116-K-1_Deep	9.74E-04	Cesium-137 (3.41E-04) Europium-152 (1.53E-04) Strontium-90 (3.77E-04)
116-K-2_Deep_1	5.84E-03	Cesium-137 (3.19E-03) Europium-152 (1.91E-03) Europium-154 (1.39E-04) Nickel-63 (1.67E-04) Strontium-90 (3.39E-04)
116-K-2_Deep_2	6.40E-03	Cesium-137 (3.28E-03) Cobalt-60 (1.43E-04) Europium-152 (2.29E-03) Europium-154 (2.69E-04) Nickel-63 (1.11E-04) Strontium-90 (2.94E-04)
118-K-1_P2_Deep_2	2.43E-05	--
118-K-1_P2_Deep_3	7.12E-05	--
118-K-1_P2_Deep_4	7.35E-05	--
118-K-1_P2_Deep_5	5.36E-06	--
118-K-1_P2_Deep_6	2.07E-06	--
118-K-1_P2_Deep_7	5.56E-04	Cesium-137 (2.29E-04) Strontium-90 (3.22E-04)
118-K-1_P2_Deep_8	2.15E-06	--
118-K-1_P2_Deep_Focused_1	1.57E-03	Cesium-137 (2.43E-04) Strontium-90 (1.25E-03)
118-K-1_P2_Deep_Focused_2	1.85E-03	Cesium-137 (1.01E-04) Europium-152 (1.02E-03) Strontium-90 (6.58E-04)
118-K-1_P2_Deep_Focused_7	1.36E-03	Cesium-137 (8.25E-04) Strontium-90 (5.22E-04)

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.95E+02	--	--	--	3.65E+05	1.63E-03	1.61%
100-K-102_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	4.99E+03	7.33E-07	100.00%	2.56E+05	1.43E-02	14.15%
100-K-102_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	7.17E+04	--	--	--	1.82E+08	3.93E-04	0.39%
100-K-102_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	3.98E+09	8.69E-14	0.00%	1.82E+06	1.90E-04	0.19%
100-K-102_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.03E+03	--	--	--	1.82E+08	5.63E-06	0.01%
100-K-102_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.23E+02	5.31E+09	2.31E-14	0.00%	8.33E+05	1.47E-04	0.15%
100-K-102_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8.14E+03	--	--	--	1.37E+09	5.95E-06	0.01%
100-K-102_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	1.06E+09	1.09E-11	0.00%	2.74E+05	4.24E-02	41.99%
100-K-102_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.90E+04	--	--	--	3.65E+07	5.20E-04	0.51%
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	4.11E+07	3.63E-12	0.00%	2.74E+06	5.44E-05	0.05%
100-K-102_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.97E+05	--	--	--	1.28E+08	3.11E-03	3.08%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	2.74E+05	1.86E-02	18.39%
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.93E+02	--	--	--	4.56E+06	1.30E-04	0.13%
100-K-102_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	3.68E+10	2.88E-13	0.00%	1.82E+07	5.81E-04	0.57%
100-K-102_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	8.93E+03	--	--	--	6.48E+09	1.38E-06	0.00%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	4.56E+06	3.78E-04	0.37%
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.93E-05	0.06%
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.89E+02	--	--	--	5.48E+08	1.26E-06	0.00%
100-K-102_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.88E+02	--	--	--	2.74E+06	2.15E-04	0.21%
100-K-102_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	8.16E+04	--	--	--	4.56E+06	1.79E-02	17.70%
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	1.18E+05	--	--	--	2.74E+08	4.31E-04	0.43%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.33E-07**	**--**	**--**	**1.01E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.33E-07**	**--**	**--**	**--**	**--**
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	4.45E+02	--	--	--	3.65E+05	1.22E-03	1.82%
100-K-102_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.03E+03	4.99E+03	6.08E-07	100.00%	2.56E+05	1.19E-02	17.69%
100-K-102_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.82E+08	3.43E-04	0.51%
100-K-102_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	3.98E+09	7.80E-14	0.00%	1.82E+06	1.70E-04	0.25%
100-K-102_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	1.82E+08	5.93E-06	0.01%
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	5.31E+09	1.81E-13	0.00%	8.33E+05	1.15E-03	1.72%
100-K-102_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6.30E+03	--	--	--	1.37E+09	4.61E-06	0.01%
100-K-102_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.12E+03	1.06E+09	8.59E-12	0.00%	2.74E+05	3.33E-02	49.68%
100-K-102_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.65E+07	4.70E-04	0.70%
100-K-102_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.28E+08	2.54E-03	3.78%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	2.74E+05	4.43E-03	6.60%
100-K-102_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.46E+02	--	--	--	4.56E+06	9.78E-05	0.15%
100-K-102_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.34E+03	3.68E+10	2.54E-13	0.00%	1.82E+07	5.12E-04	0.76%
100-K-102_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	1.04E+04	--	--	--	6.48E+09	1.61E-06	0.00%
100-K-102_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.31E+02	--	--	--	4.56E+06	7.25E-05	0.11%
100-K-102_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	3.06E+01	--	--	--	4.56E+06	6.72E-06	0.01%
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	5.48E+08	5.35E-05	0.08%
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	5.48E+08	8.74E-07	0.00%
100-K-102_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.99E+02	--	--	--	2.74E+06	2.55E-04	0.38%
100-K-102_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.75E+04	--	--	--	4.56E+06	1.04E-02	15.52%
100-K-102_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.22E+04	--	--	--	2.74E+08	1.54E-04	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.08E-07**	**--**	**--**	**6.71E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.08E-07**	**--**	**--**	**--**	**--**
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.63E+02	--	--	--	3.65E+05	1.27E-03	1.31%
100-K-102_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.51E+03	4.99E+03	9.04E-07	100.00%	2.56E+05	1.76E-02	18.25%
100-K-102_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.92E+04	--	--	--	1.82E+08	5.44E-04	0.56%
100-K-102_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.40E+02	3.98E+09	1.10E-13	0.00%	1.82E+06	2.41E-04	0.25%
100-K-102_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.50E+03	--	--	--	1.82E+08	8.22E-06	0.01%
100-K-102_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.83E+02	5.31E+09	3.45E-14	0.00%	8.33E+05	2.20E-04	0.23%
100-K-102_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.37E+09	7.96E-06	0.01%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.38E+04	1.06E+09	1.30E-11	0.00%	2.74E+05	5.04E-02	52.12%
100-K-102_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.00E+04	--	--	--	3.65E+07	5.48E-04	0.57%
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	5.47E+07	8.42E-05	0.09%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.28E+08	5.08E-03	5.25%
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	8.20E+02	--	--	--	4.56E+06	1.80E-04	0.19%
100-K-102_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	3.68E+10	3.64E-13	0.00%	1.82E+07	7.34E-04	0.76%
100-K-102_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	7.70E+03	--	--	--	6.48E+09	1.19E-06	0.00%
100-K-102_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	6.54E+02	--	--	--	4.56E+06	1.43E-04	0.15%
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	3.82E+04	--	--	--	5.48E+08	6.98E-05	0.07%
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	7.16E+02	--	--	--	5.48E+08	1.31E-06	0.00%
100-K-102_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	6.76E+02	--	--	--	2.74E+06	2.47E-04	0.26%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	4.56E+06	1.90E-02	19.65%
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	7.84E+04	--	--	--	2.74E+08	2.86E-04	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.04E-07**	**--**	**--**	**9.67E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.04E-07**	**--**	**--**	**--**	**--**
100-K-105_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	7.80E+06	--	--	--	9.12E+08	8.55E-03	9.40%
100-K-105_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.30E+02	--	--	--	3.65E+05	3.56E-04	0.39%
100-K-105_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	4.99E+03	5.01E-07	100.00%	2.56E+05	9.78E-03	10.76%
100-K-105_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.40E+04	--	--	--	1.82E+08	3.51E-04	0.39%
100-K-105_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.40E+02	3.98E+09	8.54E-14	0.00%	1.82E+06	1.86E-04	0.20%
100-K-105_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	5.31E+09	1.64E-14	0.00%	8.33E+05	1.04E-04	0.11%
100-K-105_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8.90E+03	--	--	--	1.37E+09	6.50E-06	0.01%
100-K-105_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.60E+03	1.06E+09	7.16E-12	0.00%	2.74E+05	2.78E-02	30.52%
100-K-105_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.65E+07	3.84E-04	0.42%
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	4.11E+07	7.06E-12	0.00%	2.74E+06	1.06E-04	0.12%
100-K-105_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	6.39E+08	2.97E-02	32.70%
100-K-105_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.20E+05	--	--	--	1.28E+08	2.51E-03	2.76%
100-K-105_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	3.10E+02	--	--	--	4.56E+06	6.79E-05	0.07%
100-K-105_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	3.68E+10	2.58E-13	0.00%	1.82E+07	5.21E-04	0.57%
100-K-105_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	5.75E+03	--	--	--	6.48E+09	8.88E-07	0.00%
100-K-105_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	5.00E+02	--	--	--	4.56E+06	1.10E-04	0.12%
100-K-105_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	2.10E+01	--	--	--	4.56E+06	4.60E-06	0.01%
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.60E+04	--	--	--	5.48E+08	4.75E-05	0.05%
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.60E+02	--	--	--	5.48E+08	1.21E-06	0.00%
100-K-105_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	3.60E+02	--	--	--	2.74E+06	1.32E-04	0.14%
100-K-105_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.60E+04	--	--	--	4.56E+06	1.01E-02	11.08%
100-K-105_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.10E+04	--	--	--	2.74E+08	1.50E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.01E-07**	**--**	**--**	**9.10E-02**	**--**
100-K-105_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.74E-01	5.28E+03	3.30E-09	100.00%	--	--	--
Total Radiological Risk Estimate							**3.30E-09**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.05E-07**	**--**	**--**	**--**	**--**
100-K-105_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	--	--	--	9.12E+08	6.90E-03	8.02%
100-K-105_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	9.60E+01	--	--	--	3.65E+05	2.63E-04	0.31%
100-K-105_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.20E+03	4.99E+03	4.41E-07	100.00%	2.56E+05	8.61E-03	10.00%
100-K-105_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.82E+08	2.85E-04	0.33%
100-K-105_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	3.98E+09	6.78E-14	0.00%	1.82E+06	1.48E-04	0.17%
100-K-105_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.50E+01	5.31E+09	1.04E-14	0.00%	8.33E+05	6.60E-05	0.08%
100-K-105_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	7.30E+03	--	--	--	1.37E+09	5.33E-06	0.01%
100-K-105_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.20E+03	1.06E+09	6.78E-12	0.00%	2.74E+05	2.63E-02	30.55%
100-K-105_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.20E+04	--	--	--	3.65E+07	3.29E-04	0.38%
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	4.11E+07	5.60E-12	0.00%	2.74E+06	8.40E-05	0.10%
100-K-105_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	6.39E+08	2.97E-02	34.55%
100-K-105_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	2.70E+05	--	--	--	1.28E+08	2.12E-03	2.46%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-105_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.56E+06	6.58E-05	0.08%
100-K-105_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.20E+03	3.68E+10	2.23E-13	0.00%	1.82E+07	4.49E-04	0.52%
100-K-105_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	5.10E+02	--	--	--	4.56E+06	1.12E-04	0.13%
100-K-105_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	1.80E+01	--	--	--	4.56E+06	3.95E-06	0.00%
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.30E+04	--	--	--	5.48E+08	4.20E-05	0.05%
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	5.48E+08	1.04E-06	0.00%
100-K-105_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	3.20E+02	--	--	--	2.74E+06	1.17E-04	0.14%
100-K-105_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	4.56E+06	1.03E-02	11.96%
100-K-105_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.10E+04	--	--	--	2.74E+08	1.50E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.41E-07**	**--**	**--**	**8.61E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.41E-07**	**--**	**--**	**--**	**--**
100-K-105_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	--	--	--	9.12E+08	8.44E-03	9.39%
100-K-105_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+02	--	--	--	3.65E+05	3.29E-04	0.37%
100-K-105_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.50E+03	4.99E+03	5.01E-07	100.00%	2.56E+05	9.78E-03	10.89%
100-K-105_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.82E+08	3.29E-04	0.37%
100-K-105_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	3.98E+09	7.78E-14	0.00%	1.82E+06	1.70E-04	0.19%
100-K-105_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	5.00E+01	5.31E+09	9.42E-15	0.00%	8.33E+05	6.00E-05	0.07%
100-K-105_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9.20E+03	--	--	--	1.37E+09	6.72E-06	0.01%
100-K-105_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7.50E+03	1.06E+09	7.06E-12	0.00%	2.74E+05	2.74E-02	30.50%
100-K-105_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.65E+07	3.84E-04	0.43%
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	4.11E+07	3.89E-12	0.00%	2.74E+06	5.84E-05	0.07%
100-K-105_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	--	--	--	6.39E+08	2.97E-02	33.11%
100-K-105_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.28E+08	2.35E-03	2.62%
100-K-105_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	8.80E+00	--	--	--	2.74E+05	3.21E-05	0.04%
100-K-105_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	2.90E+02	--	--	--	4.56E+06	6.36E-05	0.07%
100-K-105_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.00E+04	3.68E+10	2.72E-13	0.00%	1.82E+07	5.48E-04	0.61%
100-K-105_Shallow_3	non-Rad	Selenium	7782-49-2	ug/kg	5.40E+02	--	--	--	4.56E+06	1.18E-04	0.13%
100-K-105_Shallow_3	non-Rad	Silver	7440-22-4	ug/kg	2.50E+01	--	--	--	4.56E+06	5.48E-06	0.01%
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	ug/kg	2.90E+04	--	--	--	5.48E+08	5.30E-05	0.06%
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	5.48E+08	1.08E-06	0.00%
100-K-105_Shallow_3	non-Rad	Uranium	7440-61-1	ug/kg	9.30E+02	--	--	--	2.74E+06	3.40E-04	0.38%
100-K-105_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.30E+04	--	--	--	4.56E+06	9.42E-03	10.49%
100-K-105_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	5.40E+04	--	--	--	2.74E+08	1.97E-04	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.01E-07**	**--**	**--**	**8.98E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.01E-07**	**--**	**--**	**--**	**--**
100-K-106_Overburden_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	4.99E+03	5.15E-07	100.00%	2.56E+05	1.01E-02	14.29%
100-K-106_Overburden_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.82E+08	3.37E-04	0.48%
100-K-106_Overburden_1	non-Rad	Beryllium	7440-41-7	ug/kg	1.59E+02	3.98E+09	3.99E-14	0.00%	1.82E+06	8.71E-05	0.12%
100-K-106_Overburden_1	non-Rad	Cadmium	7440-43-9	ug/kg	6.96E+01	5.31E+09	1.31E-14	0.00%	8.33E+05	8.35E-05	0.12%
100-K-106_Overburden_1	non-Rad	Chromium	7440-47-3	ug/kg	6.45E+03	--	--	--	1.37E+09	4.71E-06	0.01%
100-K-106_Overburden_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.06E+03	1.06E+09	8.53E-12	0.00%	2.74E+05	3.31E-02	47.02%
100-K-106_Overburden_1	non-Rad	Copper	7440-50-8	ug/kg	1.48E+04	--	--	--	3.65E+07	4.05E-04	0.58%
100-K-106_Overburden_1	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.28E+08	2.47E-03	3.51%
100-K-106_Overburden_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.31E+02	--	--	--	4.56E+06	9.45E-05	0.13%
100-K-106_Overburden_1	non-Rad	Nickel	7440-02-0	ug/kg	9.02E+03	3.68E+10	2.45E-13	0.00%	1.82E+07	4.94E-04	0.70%
100-K-106_Overburden_1	non-Rad	Nitrate	14797-55-8	ug/kg	5.58E+03	--	--	--	6.48E+09	8.61E-07	0.00%
100-K-106_Overburden_1	non-Rad	Silver	7440-22-4	ug/kg	3.34E+01	--	--	--	4.56E+06	7.32E-06	0.01%
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	5.48E+08	5.63E-05	0.08%
100-K-106_Overburden_1	non-Rad	Thallium	7440-28-0	ug/kg	1.15E+02	--	--	--	9.13E+03	1.26E-02	17.90%
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	ug/kg	4.10E+02	--	--	--	5.48E+08	7.49E-07	0.00%
100-K-106_Overburden_1	non-Rad	Uranium	7440-61-1	ug/kg	5.02E+02	--	--	--	2.74E+06	1.83E-04	0.26%
100-K-106_Overburden_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	4.56E+06	1.03E-02	14.57%
100-K-106_Overburden_1	non-Rad	Zinc	7440-66-6	ug/kg	4.18E+04	--	--	--	2.74E+08	1.53E-04	0.22%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.15E-07**	**--**	**--**	**7.04E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.15E-07**	**--**	**--**	**--**	**--**
100-K-106_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.22E+03	4.99E+03	4.45E-07	100.00%	2.56E+05	8.69E-03	14.82%
100-K-106_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	5.91E+04	--	--	--	1.82E+08	3.24E-04	0.55%
100-K-106_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.60E+02	3.98E+09	9.04E-14	0.00%	1.82E+06	1.97E-04	0.34%
100-K-106_Overburden_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.05E+01	5.31E+09	1.33E-14	0.00%	8.33E+05	8.46E-05	0.14%
100-K-106_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	1.73E+04	--	--	--	1.37E+09	1.26E-05	0.02%
100-K-106_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.23E+03	1.06E+09	8.69E-12	0.00%	2.74E+05	3.37E-02	57.53%
100-K-106_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	1.58E+04	--	--	--	3.65E+07	4.33E-04	0.74%
100-K-106_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.28E+08	2.37E-03	4.05%
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.97E+02	--	--	--	4.56E+06	1.09E-04	0.19%
100-K-106_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	3.68E+10	3.59E-13	0.00%	1.82E+07	7.23E-04	1.23%
100-K-106_Overburden_2	non-Rad	Nitrate	14797-55-8	ug/kg	1.00E+04	--	--	--	6.48E+09	1.54E-06	0.00%
100-K-106_Overburden_2	non-Rad	Selenium	7782-49-2	ug/kg	2.52E+02	--	--	--	4.56E+06	5.52E-05	0.09%
100-K-106_Overburden_2	non-Rad	Silver	7440-22-4	ug/kg	3.50E+01	--	--	--	4.56E+06	7.67E-06	0.01%
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	ug/kg	3.02E+04	--	--	--	5.48E+08	5.52E-05	0.09%
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	ug/kg	5.34E+02	--	--	--	5.48E+08	9.75E-07	0.00%
100-K-106_Overburden_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.74E+06	1.68E-04	0.29%
100-K-106_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.24E+04	--	--	--	4.56E+06	1.15E-02	19.60%
100-K-106_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	4.79E+04	--	--	--	2.74E+08	1.75E-04	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.45E-07**	**--**	**--**	**5.86E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.45E-07**	**--**	**--**	**--**	**--**
100-K-106_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.46E+03	4.99E+03	4.93E-07	100.00%	2.56E+05	9.63E-03	15.54%
100-K-106_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	6.04E+04	--	--	--	1.82E+08	3.31E-04	0.53%
100-K-106_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.57E+02	3.98E+09	6.45E-14	0.00%	1.82E+06	1.41E-04	0.23%
100-K-106_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.44E+01	5.31E+09	1.40E-14	0.00%	8.33E+05	8.93E-05	0.14%
100-K-106_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	5.97E+03	--	--	--	1.37E+09	4.36E-06	0.01%
100-K-106_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.16E+03	1.06E+09	7.68E-12	0.00%	2.74E+05	2.98E-02	48.12%
100-K-106_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	1.54E+04	--	--	--	3.65E+07	4.22E-04	0.68%
100-K-106_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.28E+08	2.26E-03	3.64%
100-K-106_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	3.34E+02	--	--	--	4.56E+06	7.32E-05	0.12%
100-K-106_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	7.75E+03	3.68E+10	2.11E-13	0.00%	1.82E+07	4.25E-04	0.69%
100-K-106_Overburden_3	non-Rad	Nitrate	14797-55-8	ug/kg	1.08E+04	--	--	--	6.48E+09	1.67E-06	0.00%
100-K-106_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	3.47E+01	--	--	--	4.56E+06	7.61E-06	0.01%
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	ug/kg	2.96E+04	--	--	--	5.48E+08	5.41E-05	0.09%
100-K-106_Overburden_3	non-Rad	Thallium	7440-28-0	ug/kg	7.99E+01	--	--	--	9.13E+03	8.76E-03	14.13%
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	ug/kg	3.91E+02	--	--	--	5.48E+08	7.14E-07	0.00%
100-K-106_Overburden_3	non-Rad	Uranium	7440-61-1	ug/kg	6.73E+02	--	--	--	2.74E+06	2.46E-04	0.40%
100-K-106_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.36E+04	--	--	--	4.56E+06	9.56E-03	15.43%
100-K-106_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	4.15E+04	--	--	--	2.74E+08	1.52E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.93E-07**	**--**	**--**	**6.19E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.93E-07**	**--**	**--**	**--**	**--**
100-K-106_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.17E+03	4.99E+03	4.35E-07	100.00%	2.56E+05	8.49E-03	14.37%
100-K-106_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.84E+04	--	--	--	1.82E+08	3.20E-04	0.54%
100-K-106_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.10E+02	3.98E+09	7.78E-14	0.00%	1.82E+06	1.70E-04	0.29%
100-K-106_Overburden_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	7.10E+01	5.31E+09	1.34E-14	0.00%	8.33E+05	8.52E-05	0.14%
100-K-106_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5.99E+03	--	--	--	1.37E+09	4.38E-06	0.01%
100-K-106_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.37E+03	1.06E+09	8.82E-12	0.00%	2.74E+05	3.42E-02	57.94%
100-K-106_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.65E+07	4.27E-04	0.72%
100-K-106_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.12E+05	--	--	--	1.28E+08	2.44E-03	4.14%
100-K-106_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.98E+02	--	--	--	4.56E+06	8.72E-05	0.15%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	8.29E+03	3.68E+10	2.25E-13	0.00%	1.82E+07	4.54E-04	0.77%
100-K-106_Overburden_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.82E+03	--	--	--	6.48E+09	1.05E-06	0.00%
100-K-106_Overburden_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	2.68E+01	--	--	--	4.56E+06	5.87E-06	0.01%
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.94E+04	--	--	--	5.48E+08	5.37E-05	0.09%
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.21E+02	--	--	--	5.48E+08	7.69E-07	0.00%
100-K-106_Overburden_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	7.40E+02	--	--	--	2.74E+06	2.70E-04	0.46%
100-K-106_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.40E+04	--	--	--	4.56E+06	1.18E-02	20.03%
100-K-106_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	5.50E+04	--	--	--	2.74E+08	2.01E-04	0.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.35E-07**	**--**	**--**	**5.91E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.35E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.92E+02	4.99E+03	1.99E-07	100.00%	2.56E+05	3.88E-03	10.40%
100-K-106_Shallow	non-Rad	Barium	7440-39-3	ug/kg	4.26E+04	--	--	--	1.82E+08	2.33E-04	0.63%
100-K-106_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	3.98E+09	5.27E-14	0.00%	1.82E+06	1.15E-04	0.31%
100-K-106_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	3.66E+01	5.31E+09	6.89E-15	0.00%	8.33E+05	4.39E-05	0.12%
100-K-106_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.79E+03	--	--	--	1.37E+09	2.04E-06	0.01%
100-K-106_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6.38E+03	1.06E+09	6.01E-12	0.00%	2.74E+05	2.33E-02	62.46%
100-K-106_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.12E+04	--	--	--	3.65E+07	3.07E-04	0.82%
100-K-106_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.03E+05	--	--	--	1.28E+08	1.59E-03	4.26%
100-K-106_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.28E+02	--	--	--	4.56E+06	5.00E-05	0.13%
100-K-106_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	3.68E+10	1.43E-13	0.00%	1.82E+07	2.88E-04	0.77%
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	5.48E+08	3.74E-05	0.10%
100-K-106_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.32E+02	--	--	--	5.48E+08	6.06E-07	0.00%
100-K-106_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	2.92E+02	--	--	--	2.74E+06	1.07E-04	0.29%
100-K-106_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	3.30E+04	--	--	--	4.56E+06	7.23E-03	19.38%
100-K-106_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	3.32E+04	--	--	--	2.74E+08	1.21E-04	0.33%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.99E-07**	**--**	**--**	**3.73E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.99E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1.32E+03	4.99E+03	2.65E-07	100.00%	2.56E+05	5.17E-03	10.68%
100-K-106_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	5.56E+04	--	--	--	1.82E+08	3.05E-04	0.63%
100-K-106_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.11E+02	3.98E+09	5.30E-14	0.00%	1.82E+06	1.16E-04	0.24%
100-K-106_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	5.93E+01	5.31E+09	1.12E-14	0.00%	8.33E+05	7.12E-05	0.15%
100-K-106_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	4.51E+03	--	--	--	1.37E+09	3.29E-06	0.01%
100-K-106_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.24E+03	1.06E+09	7.76E-12	0.00%	2.74E+05	3.01E-02	62.23%
100-K-106_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	1.51E+04	--	--	--	3.65E+07	4.14E-04	0.86%
100-K-106_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	2.50E+05	--	--	--	1.28E+08	1.96E-03	4.05%
100-K-106_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	2.65E+02	--	--	--	4.56E+06	5.81E-05	0.12%
100-K-106_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	6.17E+03	3.68E+10	1.68E-13	0.00%	1.82E+07	3.38E-04	0.70%
100-K-106_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.31E+04	--	--	--	6.48E+09	2.02E-06	0.00%
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	2.19E+04	--	--	--	5.48E+08	4.00E-05	0.08%
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	3.70E+02	--	--	--	5.48E+08	6.76E-07	0.00%
100-K-106_Shallow_Focused_1	non-Rad	Uranium	7440-61-1	ug/kg	3.67E+02	--	--	--	2.74E+06	1.34E-04	0.28%
100-K-106_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.35E+04	--	--	--	4.56E+06	9.53E-03	19.71%
100-K-106_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	3.46E+04	--	--	--	2.74E+08	1.26E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.65E-07**	**--**	**--**	**4.84E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.65E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+03	4.99E+03	2.97E-07	100.00%	2.56E+05	5.79E-03	9.58%
100-K-106_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	5.88E+04	--	--	--	1.82E+08	3.22E-04	0.53%
100-K-106_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.31E+02	3.98E+09	5.80E-14	0.00%	1.82E+06	1.27E-04	0.21%
100-K-106_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	5.18E+01	5.31E+09	9.75E-15	0.00%	8.33E+05	6.22E-05	0.10%
100-K-106_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	5.37E+03	--	--	--	1.37E+09	3.92E-06	0.01%
100-K-106_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.02E+04	1.06E+09	9.60E-12	0.00%	2.74E+05	3.73E-02	61.62%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.40E+04	--	--	--	3.65E+07	3.84E-04	0.63%
100-K-106_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.28E+08	3.13E-03	5.17%
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.90E+02	--	--	--	4.56E+06	1.07E-04	0.18%
100-K-106_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	7.31E+03	3.68E+10	1.99E-13	0.00%	1.82E+07	4.01E-04	0.66%
100-K-106_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.15E+03	--	--	--	6.48E+09	9.49E-07	0.00%
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.01E+04	--	--	--	5.48E+08	3.67E-05	0.06%
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	5.48E+08	8.73E-07	0.00%
100-K-106_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.86E+02	--	--	--	2.74E+06	1.41E-04	0.23%
100-K-106_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.73E+04	--	--	--	4.56E+06	1.26E-02	20.77%
100-K-106_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	4.05E+04	--	--	--	2.74E+08	1.48E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.97E-07**	**--**	**--**	**6.05E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.97E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	4.99E+03	3.51E-07	100.00%	2.56E+05	6.85E-03	11.58%
100-K-106_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.98E+04	--	--	--	1.82E+08	3.28E-04	0.55%
100-K-106_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.41E+02	3.98E+09	8.56E-14	0.00%	1.82E+06	1.87E-04	0.32%
100-K-106_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	7.00E+01	5.31E+09	1.32E-14	0.00%	8.33E+05	8.40E-05	0.14%
100-K-106_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	5.71E+03	--	--	--	1.37E+09	4.17E-06	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.78E+03	1.06E+09	9.21E-12	0.00%	2.74E+05	3.57E-02	60.41%
100-K-106_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.65E+07	4.63E-04	0.78%
100-K-106_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.28E+08	2.55E-03	4.32%
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.99E+02	--	--	--	4.56E+06	1.09E-04	0.18%
100-K-106_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	7.95E+03	3.68E+10	2.16E-13	0.00%	1.82E+07	4.36E-04	0.74%
100-K-106_Shallow_Focused_3	non-Rad	Nitrate	14797-55-8	ug/kg	2.09E+04	--	--	--	6.48E+09	3.23E-06	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	3.41E+01	--	--	--	4.56E+06	7.47E-06	0.01%
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.53E+04	--	--	--	5.48E+08	4.62E-05	0.08%
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.47E+02	--	--	--	5.48E+08	9.99E-07	0.00%
100-K-106_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.70E+02	--	--	--	2.74E+06	1.72E-04	0.29%
100-K-106_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.48E+04	--	--	--	4.56E+06	1.20E-02	20.31%
100-K-106_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	4.38E+04	--	--	--	2.74E+08	1.60E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.51E-07**	**--**	**--**	**5.91E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.51E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.01E+03	4.99E+03	2.03E-07	100.00%	2.56E+05	3.95E-03	8.70%
100-K-106_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	4.90E+04	--	--	--	1.82E+08	2.69E-04	0.59%
100-K-106_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	1.87E+02	3.98E+09	4.70E-14	0.00%	1.82E+06	1.02E-04	0.23%
100-K-106_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.15E+01	5.31E+09	9.70E-15	0.00%	8.33E+05	6.18E-05	0.14%
100-K-106_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2.28E+03	--	--	--	1.37E+09	1.67E-06	0.00%
100-K-106_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.95E+03	1.06E+09	7.49E-12	0.00%	2.74E+05	2.90E-02	63.91%
100-K-106_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.43E+04	--	--	--	3.65E+07	3.92E-04	0.86%
100-K-106_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.62E+05	--	--	--	1.28E+08	2.05E-03	4.52%
100-K-106_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	3.03E+02	--	--	--	4.56E+06	6.64E-05	0.15%
100-K-106_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.25E+03	3.68E+10	1.43E-13	0.00%	1.82E+07	2.88E-04	0.63%
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	1.89E+04	--	--	--	5.48E+08	3.45E-05	0.08%
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.02E+02	--	--	--	5.48E+08	7.34E-07	0.00%
100-K-106_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	3.56E+02	--	--	--	2.74E+06	1.30E-04	0.29%
100-K-106_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	4.07E+04	--	--	--	4.56E+06	8.92E-03	19.63%
100-K-106_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	3.50E+04	--	--	--	2.74E+08	1.28E-04	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.03E-07**	**--**	**--**	**4.54E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.03E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.73E+03	4.99E+03	3.47E-07	100.00%	2.56E+05	6.77E-03	12.06%
100-K-106_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.33E+04	--	--	--	1.82E+08	2.92E-04	0.52%
100-K-106_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.19E+02	3.98E+09	8.01E-14	0.00%	1.82E+06	1.75E-04	0.31%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	5.21E+01	5.31E+09	9.81E-15	0.00%	8.33E+05	6.25E-05	0.11%
100-K-106_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3.68E+03	--	--	--	1.37E+09	2.69E-06	0.00%
100-K-106_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.96E+03	1.06E+09	8.44E-12	0.00%	2.74E+05	3.27E-02	58.33%
100-K-106_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	1.50E+04	--	--	--	3.65E+07	4.11E-04	0.73%
100-K-106_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.28E+08	2.04E-03	3.64%
100-K-106_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	3.72E+02	--	--	--	4.56E+06	8.15E-05	0.15%
100-K-106_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	7.11E+03	3.68E+10	1.93E-13	0.00%	1.82E+07	3.90E-04	0.69%
100-K-106_Shallow_Focused_5	non-Rad	Selenium	7782-49-2	ug/kg	2.75E+02	--	--	--	4.56E+06	6.03E-05	0.11%
100-K-106_Shallow_Focused_5	non-Rad	Silver	7440-22-4	ug/kg	3.28E+01	--	--	--	4.56E+06	7.19E-06	0.01%
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	5.48E+08	5.44E-05	0.10%
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	5.48E+08	8.79E-07	0.00%
100-K-106_Shallow_Focused_5	non-Rad	Uranium	7440-61-1	ug/kg	4.88E+02	--	--	--	2.74E+06	1.78E-04	0.32%
100-K-106_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	5.80E+04	--	--	--	4.56E+06	1.27E-02	22.65%
100-K-106_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	3.98E+04	--	--	--	2.74E+08	1.45E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.47E-07**	**--**	**--**	**5.61E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.47E-07**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	4.99E+03	4.01E-07	100.00%	2.56E+05	7.83E-03	13.65%
100-K-106_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	5.72E+04	--	--	--	1.82E+08	3.13E-04	0.55%
100-K-106_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.29E+02	3.98E+09	8.26E-14	0.00%	1.82E+06	1.80E-04	0.31%
100-K-106_Shallow_Focused_6	non-Rad	Cadmium	7440-43-9	ug/kg	4.11E+01	5.31E+09	7.74E-15	0.00%	8.33E+05	4.93E-05	0.09%
100-K-106_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	6.07E+03	--	--	--	1.37E+09	4.43E-06	0.01%
100-K-106_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	9.64E+03	1.06E+09	9.08E-12	0.00%	2.74E+05	3.52E-02	61.40%
100-K-106_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	1.62E+04	--	--	--	3.65E+07	4.44E-04	0.77%
100-K-106_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.30E+05	--	--	--	1.28E+08	2.59E-03	4.51%
100-K-106_Shallow_Focused_6	non-Rad	Molybdenum	7439-98-7	ug/kg	2.98E+02	--	--	--	4.56E+06	6.53E-05	0.11%
100-K-106_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	9.74E+03	3.68E+10	2.65E-13	0.00%	1.82E+07	5.34E-04	0.93%
100-K-106_Shallow_Focused_6	non-Rad	Nitrate	14797-55-8	ug/kg	1.04E+04	--	--	--	6.48E+09	1.61E-06	0.00%
100-K-106_Shallow_Focused_6	non-Rad	Selenium	7782-49-2	ug/kg	2.53E+02	--	--	--	4.56E+06	5.55E-05	0.10%
100-K-106_Shallow_Focused_6	non-Rad	Silver	7440-22-4	ug/kg	2.45E+01	--	--	--	4.56E+06	5.37E-06	0.01%
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	ug/kg	2.48E+04	--	--	--	5.48E+08	4.53E-05	0.08%
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	ug/kg	4.65E+02	--	--	--	5.48E+08	8.49E-07	0.00%
100-K-106_Shallow_Focused_6	non-Rad	Uranium	7440-61-1	ug/kg	4.78E+02	--	--	--	2.74E+06	1.75E-04	0.30%
100-K-106_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.43E+04	--	--	--	4.56E+06	9.71E-03	16.93%
100-K-106_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	3.86E+04	--	--	--	2.74E+08	1.41E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.01E-07**	**--**	**--**	**5.74E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.01E-07**	**--**	**--**	**--**	**--**
100-K-109_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.19E+03	4.99E+03	4.39E-07	100.00%	2.56E+05	8.57E-03	13.59%
100-K-109_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.82E+08	3.11E-04	0.49%
100-K-109_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	3.98E+09	7.44E-14	0.00%	1.82E+06	1.62E-04	0.26%
100-K-109_Shallow	non-Rad	Boron	7440-42-8	ug/kg	8.98E+02	--	--	--	1.82E+08	4.92E-06	0.01%
100-K-109_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.90E+03	--	--	--	1.37E+09	4.31E-06	0.01%
100-K-109_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	1.06E+09	9.50E-12	0.00%	2.74E+05	3.69E-02	58.44%
100-K-109_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.65E+07	4.86E-04	0.77%
100-K-109_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.28E+08	2.59E-03	4.11%
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	2.74E+05	2.78E-04	0.44%
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.56E+06	1.05E-04	0.17%
100-K-109_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.69E+03	3.68E+10	2.36E-13	0.00%	1.82E+07	4.76E-04	0.75%
100-K-109_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	7.82E+03	--	--	--	6.48E+09	1.21E-06	0.00%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	4.56E+06	2.25E-04	0.36%
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	5.48E+08	4.63E-05	0.07%
100-K-109_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	5.48E+08	8.15E-07	0.00%
100-K-109_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.56E+02	--	--	--	2.74E+06	1.67E-04	0.26%
100-K-109_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	4.56E+06	1.26E-02	20.01%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-109_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.33E+04	--	--	--	2.74E+08	1.58E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.39E-07**	**--**	**--**	**6.31E-02**	**--**
100-K-109_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.17E-02	9.82E+01	2.21E-08	100.00%	--	--	--
Total Radiological Risk Estimate							**2.21E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.61E-07**	**--**	**--**	**--**	**--**
100-K-109_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.90E+03	4.99E+03	3.81E-07	100.00%	2.56E+05	7.43E-03	11.23%
100-K-109_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.02E+04	--	--	--	1.82E+08	3.30E-04	0.50%
100-K-109_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.00E+02	3.98E+09	7.53E-14	0.00%	1.82E+06	1.64E-04	0.25%
100-K-109_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.10E+01	5.31E+09	1.53E-14	0.00%	8.33E+05	9.72E-05	0.15%
100-K-109_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7.90E+03	--	--	--	1.37E+09	5.77E-06	0.01%
100-K-109_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.01E+04	1.06E+09	9.51E-12	0.00%	2.74E+05	3.69E-02	55.72%
100-K-109_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.85E+04	--	--	--	3.65E+07	5.07E-04	0.77%
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	4.11E+07	4.06E-12	0.00%	2.74E+06	6.10E-05	0.09%
100-K-109_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.59E+05	--	--	--	1.28E+08	2.81E-03	4.25%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	2.74E+05	5.11E-05	0.08%
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.56E+06	1.05E-04	0.16%
100-K-109_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6.50E+03	3.68E+10	1.77E-13	0.00%	1.82E+07	3.56E-04	0.54%
100-K-109_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5.05E+03	--	--	--	6.48E+09	7.79E-07	0.00%
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	4.56E+06	4.16E-04	0.63%
100-K-109_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	4.70E+01	--	--	--	4.56E+06	1.03E-05	0.02%
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.17E+04	--	--	--	5.48E+08	3.96E-05	0.06%
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	9.70E+02	--	--	--	5.48E+08	1.77E-06	0.00%
100-K-109_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.74E+06	1.68E-04	0.25%
100-K-109_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	7.55E+04	--	--	--	4.56E+06	1.65E-02	24.99%
100-K-109_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.74E+08	2.05E-04	0.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.81E-07**	**--**	**--**	**6.62E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.81E-07**	**--**	**--**	**--**	**--**
100-K-110_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.00E+06	--	--	--	9.12E+08	7.68E-03	4.03%
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.42E+03	--	--	--	3.65E+05	1.21E-02	6.35%
100-K-110_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8.69E+03	4.99E+03	1.74E-06	100.00%	2.56E+05	3.40E-02	17.86%
100-K-110_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.36E+04	--	--	--	1.82E+08	4.03E-04	0.21%
100-K-110_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.26E+02	3.98E+09	8.20E-14	0.00%	1.82E+06	1.79E-04	0.09%
100-K-110_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.18E+02	5.31E+09	2.21E-14	0.00%	8.33E+05	1.41E-04	0.07%
100-K-110_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.29E+03	--	--	--	1.37E+09	5.33E-06	0.00%
100-K-110_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.17E+04	1.06E+09	1.11E-11	0.00%	2.74E+05	4.29E-02	22.53%
100-K-110_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.06E+04	--	--	--	3.65E+07	5.65E-04	0.30%
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	4.11E+07	4.84E-12	0.00%	2.74E+06	7.26E-05	0.04%
100-K-110_Shallow	non-Rad	Iron	7439-89-6	ug/kg	3.35E+07	--	--	--	6.39E+08	5.24E-02	27.54%
100-K-110_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.13E+05	--	--	--	1.28E+08	3.23E-03	1.70%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	2.74E+05	1.58E-03	0.83%
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.87E+02	--	--	--	4.56E+06	1.29E-04	0.07%
100-K-110_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.06E+04	3.68E+10	2.88E-13	0.00%	1.82E+07	5.80E-04	0.30%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	4.56E+06	3.97E-04	0.21%
100-K-110_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.80E+01	--	--	--	4.56E+06	8.33E-06	0.00%
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.03E+04	--	--	--	5.48E+08	7.35E-05	0.04%
100-K-110_Shallow	non-Rad	Thallium	7440-28-0	ug/kg	1.42E+02	--	--	--	9.13E+03	1.56E-02	8.17%
100-K-110_Shallow	non-Rad	Tin	7440-31-5	ug/kg	9.94E+02	--	--	--	5.48E+08	1.82E-06	0.00%
100-K-110_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.26E+04	--	--	--	4.56E+06	1.81E-02	9.51%
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	7.65E+04	--	--	--	2.74E+08	2.80E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.74E-06**	**--**	**--**	**1.90E-01**	**--**
100-K-110_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	9.40E-02	9.82E+01	9.57E-08	99.40%	--	--	--
100-K-110_Shallow	Rad	Europium-155	14391-16-3	pCi/g	3.40E-02	5.87E+03	5.79E-10	0.60%	--	--	--
Total Radiological Risk Estimate							**9.63E-08**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**1.84E-06**	--	--	--	--
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	5.31E+09	3.52E-13	100.00%	8.33E+05	2.24E-03	84.61%
100-K-110_Shallow_focused	non-Rad	Chromium	7440-47-3	ug/kg	8.64E+03	--	--	--	1.37E+09	6.31E-06	0.24%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	2.74E+05	4.02E-04	15.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.52E-13**	--	--	**2.65E-03**	--
Total Non-Radiological and Radiological Risk Estimate							**3.52E-13**	--	--	--	--
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.15E+03	--	--	--	3.65E+05	1.14E-02	12.76%
100-K-14, 126-KE-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.12E+03	4.99E+03	4.25E-07	100.00%	2.56E+05	8.30E-03	9.30%
100-K-14, 126-KE-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.99E+04	--	--	--	1.82E+08	3.83E-04	0.43%
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	3.98E+09	4.10E-13	0.00%	1.82E+06	8.95E-04	1.00%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	1.82E+08	5.81E-05	0.07%
100-K-14, 126-KE-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.58E+03	--	--	--	1.37E+09	7.00E-06	0.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	1.06E+09	1.02E-11	0.00%	2.74E+05	3.96E-02	44.39%
100-K-14, 126-KE-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.09E+04	--	--	--	3.65E+07	5.72E-04	0.64%
100-K-14, 126-KE-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.98E+05	--	--	--	1.28E+08	3.12E-03	3.50%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	2.74E+05	1.80E-03	2.01%
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.22E+03	--	--	--	4.56E+06	2.68E-04	0.30%
100-K-14, 126-KE-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.91E+03	3.68E+10	2.15E-13	0.00%	1.82E+07	4.34E-04	0.49%
100-K-14, 126-KE-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.64E+03	--	--	--	6.48E+09	4.07E-07	0.00%
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	4.56E+06	2.50E-04	0.28%
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	9.58E+02	--	--	--	4.56E+06	2.10E-04	0.24%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.56E+06	2.17E-02	24.35%
100-K-14, 126-KE-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.67E+04	--	--	--	2.74E+08	2.07E-04	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.25E-07**	--	--	**8.92E-02**	--
Total Non-Radiological and Radiological Risk Estimate							**4.25E-07**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	4.99E+03	4.79E-07	100.00%	2.56E+05	9.35E-03	12.12%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Barium	7440-39-3	ug/kg	6.00E+04	--	--	--	1.82E+08	3.29E-04	0.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Beryllium	7440-41-7	ug/kg	5.02E+02	3.98E+09	1.26E-13	0.00%	1.82E+06	2.75E-04	0.36%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Boron	7440-42-8	ug/kg	1.05E+03	--	--	--	1.82E+08	5.73E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Chromium	7440-47-3	ug/kg	6.23E+03	--	--	--	1.37E+09	4.55E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Cobalt	7440-48-4	ug/kg	1.19E+04	1.06E+09	1.12E-11	0.00%	2.74E+05	4.35E-02	56.42%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Copper	7440-50-8	ug/kg	1.83E+04	--	--	--	3.65E+07	5.02E-04	0.65%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.28E+08	3.07E-03	3.98%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Molybdenum	7439-98-7	ug/kg	5.74E+02	--	--	--	4.56E+06	1.26E-04	0.16%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	3.68E+10	2.75E-13	0.00%	1.82E+07	5.54E-04	0.72%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Nitrate	14797-55-8	ug/kg	1.55E+04	--	--	--	6.48E+09	2.39E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	4.56E+06	5.15E-04	0.67%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	5.48E+08	5.09E-05	0.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Tin	7440-31-5	ug/kg	5.83E+02	--	--	--	5.48E+08	1.06E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	2.74E+06	1.79E-04	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Vanadium	7440-62-2	ug/kg	8.43E+04	--	--	--	4.56E+06	1.85E-02	23.93%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	non-Rad	Zinc	7440-66-6	ug/kg	5.37E+04	--	--	--	2.74E+08	1.96E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.79E-07**	--	--	**7.72E-02**	--
Total Non-Radiological and Radiological Risk Estimate							**4.79E-07**	--	--	--	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Arsenic	7440-38-2	ug/kg	1.75E+03	4.99E+03	3.51E-07	100.00%	2.56E+05	6.85E-03	8.60%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.82E+08	3.85E-04	0.48%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	1.82E+08	1.06E-05	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Chromium	7440-47-3	ug/kg	6.30E+03	--	--	--	1.37E+09	4.60E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	1.06E+09	1.16E-11	0.00%	2.74E+05	4.49E-02	56.44%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.65E+07	5.16E-04	0.65%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	4.11E+07	4.23E-12	0.00%	2.74E+06	6.36E-05	0.08%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Manganese	7439-96-5	ug/kg	4.54E+05	--	--	--	1.28E+08	3.56E-03	4.47%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	2.74E+05	8.80E-04	1.11%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.56E+06	1.61E-04	0.20%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nickel	7440-02-0	ug/kg	8.93E+03	3.68E+10	2.43E-13	0.00%	1.82E+07	4.89E-04	0.61%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Nitrate	14797-55-8	ug/kg	1.23E+04	--	--	--	6.48E+09	1.90E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	4.56E+06	5.26E-04	0.66%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Strontium	7440-24-6	ug/kg	2.79E+04	--	--	--	5.48E+08	5.10E-05	0.06%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Tin	7440-31-5	ug/kg	6.72E+02	--	--	--	5.48E+08	1.23E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Uranium	7440-61-1	ug/kg	4.98E+02	--	--	--	2.74E+06	1.82E-04	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	4.56E+06	2.08E-02	26.13%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	non-Rad	Zinc	7440-66-6	ug/kg	5.65E+04	--	--	--	2.74E+08	2.06E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.51E-07**	**--**	**--**	**7.96E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.51E-07**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	4.99E+03	8.69E-07	100.00%	2.56E+05	1.70E-02	19.10%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.82E+08	4.13E-04	0.47%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.14E+02	3.98E+09	1.04E-13	0.00%	1.82E+06	2.27E-04	0.26%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	1.82E+08	9.32E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	9.29E+01	5.31E+09	1.75E-14	0.00%	8.33E+05	1.11E-04	0.13%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.10E+03	--	--	--	1.37E+09	6.65E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.26E+04	1.06E+09	1.19E-11	0.00%	2.74E+05	4.62E-02	52.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.05E+04	--	--	--	3.65E+07	5.61E-04	0.63%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	4.11E+07	5.66E-12	0.00%	2.74E+06	8.50E-05	0.10%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.21E+05	--	--	--	1.28E+08	3.30E-03	3.72%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	2.74E+05	2.48E-04	0.28%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.22E+02	--	--	--	4.56E+06	1.36E-04	0.15%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	3.68E+10	3.05E-13	0.00%	1.82E+07	6.14E-04	0.69%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.48E+04	--	--	--	6.48E+09	3.83E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	4.56E+06	2.32E-04	0.26%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.43E+04	--	--	--	5.48E+08	6.27E-05	0.07%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	6.26E+02	--	--	--	5.48E+08	1.14E-06	0.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.39E+02	--	--	--	2.74E+06	2.33E-04	0.26%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	4.56E+06	1.92E-02	21.60%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.01E+04	--	--	--	2.74E+08	2.20E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.69E-07**	**--**	**--**	**8.88E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.69E-07**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	4.99E+03	3.21E-07	99.99%	2.56E+05	6.26E-03	9.71%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.44E+04	--	--	--	1.82E+08	2.98E-04	0.46%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	3.98E+09	5.27E-14	0.00%	1.82E+06	1.15E-04	0.18%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.10E+01	5.31E+09	1.15E-14	0.00%	8.33E+05	7.32E-05	0.11%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.60E+03	--	--	--	1.37E+09	7.01E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.40E+03	1.06E+09	8.85E-12	0.00%	2.74E+05	3.43E-02	53.25%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.65E+07	4.77E-04	0.74%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	4.11E+07	1.86E-11	0.01%	2.74E+06	2.79E-04	0.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.94E+05	--	--	--	1.28E+08	2.30E-03	3.57%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	2.74E+05	1.06E-03	1.64%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	5.10E+02	--	--	--	4.56E+06	1.12E-04	0.17%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6.10E+03	3.68E+10	1.66E-13	0.00%	1.82E+07	3.34E-04	0.52%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	4.56E+06	3.73E-04	0.58%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	5.30E+01	--	--	--	4.56E+06	1.16E-05	0.02%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	5.48E+08	3.74E-05	0.06%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	5.48E+08	8.77E-07	0.00%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	3.80E+02	--	--	--	2.74E+06	1.39E-04	0.22%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	4.56E+06	1.81E-02	28.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.57E+04	--	--	--	2.74E+08	2.03E-04	0.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.21E-07**	**--**	**--**	**6.45E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.21E-07**	**--**	**--**	**--**	**--**
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	2.91E+03	3.37E-08	6.80%	1.37E+04	7.15E-03	39.65%
100-K-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	4.99E+03	4.61E-07	93.18%	2.56E+05	9.00E-03	49.88%
100-K-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.64E+04	--	--	--	1.82E+08	3.64E-04	2.02%
100-K-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	5.31E+09	2.45E-14	0.00%	8.33E+05	1.56E-04	0.86%
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.47E+04	--	--	--	1.37E+09	1.80E-05	0.10%
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	4.11E+07	7.79E-11	0.02%	2.74E+06	1.17E-03	6.48%
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	2.74E+05	1.83E-04	1.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.95E-07**	**--**	**--**	**1.80E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.95E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.60E+02	--	--	--	4.18E+07	3.82E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	2.10E+00	--	--	--	2.09E+08	1.00E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.74E+02	--	--	--	3.65E+05	1.02E-03	1.57%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	2.91E+03	5.84E-09	0.76%	1.37E+04	1.24E-03	1.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	2.91E+03	8.25E-09	1.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	4.99E+03	6.77E-07	87.81%	2.56E+05	1.32E-02	20.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.02E+04	--	--	--	1.82E+08	3.85E-04	0.59%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	1.34E+04	3.66E-09	0.47%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	1.34E+03	3.66E-08	4.74%	2.09E+05	2.34E-04	0.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	1.34E+04	5.45E-09	0.71%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	1.34E+05	2.39E-10	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.12E+02	3.98E+09	7.83E-14	0.00%	1.82E+06	1.71E-04	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.82E+08	1.04E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	9.72E+01	5.31E+09	1.83E-14	0.00%	8.33E+05	1.17E-04	0.18%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.67E+03	--	--	--	1.37E+09	5.61E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	1.34E+06	5.60E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	1.06E+09	8.61E-12	0.00%	2.74E+05	3.34E-02	51.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.75E+04	--	--	--	3.65E+07	4.81E-04	0.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	1.34E+03	3.14E-08	4.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.81E+01	--	--	--	2.79E+07	3.16E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.30E+00	--	--	--	2.79E+07	2.26E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	4.11E+07	2.48E-12	0.00%	2.74E+06	3.73E-05	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	1.34E+04	2.02E-09	0.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.45E+05	--	--	--	1.28E+08	2.70E-03	4.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	2.74E+05	1.83E-04	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.56E+06	1.61E-04	0.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	7.11E+04	5.48E-10	0.07%	2.26E+06	1.73E-05	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	3.68E+10	2.84E-13	0.00%	1.82E+07	5.72E-04	0.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.26E+04	--	--	--	6.48E+09	1.95E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.09E+07	3.15E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.58E+02	--	--	--	4.56E+06	5.65E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.63E+01	--	--	--	4.56E+06	7.96E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.11E+04	--	--	--	5.48E+08	5.67E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.03E+02	--	--	--	5.48E+08	9.18E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.64E+02	--	--	--	2.74E+06	1.70E-04	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.95E+04	--	--	--	4.56E+06	1.09E-02	16.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.90E+04	--	--	--	2.74E+08	1.79E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.71E-07**	**--**	**--**	**6.53E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	3.10E-02	2.77E+03	1.12E-09	0.20%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.93E-01	9.82E+01	2.99E-07	53.13%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.50E-01	6.39E+01	2.35E-07	41.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.72E-02	4.04E+03	6.73E-10	0.12%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	6.20E+03	2.90E-09	0.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.75E-02	3.01E+02	5.83E-09	1.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Uranium-238	U-238	pCi/g	1.93E-01	1.07E+03	1.80E-08	3.21%	--	--	--
Total Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.33E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	ug/kg	4.90E+01	--	--	--	4.18E+07	1.17E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	2.91E+03	4.12E-09	1.21%	1.37E+04	8.76E-04	1.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	1.64E+03	4.99E+03	3.29E-07	96.22%	2.56E+05	6.42E-03	13.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	4.88E+04	--	--	--	1.82E+08	2.67E-04	0.57%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	1.34E+04	8.21E-10	0.24%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	1.34E+03	6.05E-09	1.77%	2.09E+05	3.87E-05	0.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	1.34E+04	1.12E-09	0.33%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	1.34E+05	5.67E-11	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1.97E+02	3.98E+09	4.95E-14	0.00%	1.82E+06	1.08E-04	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	2.90E+03	--	--	--	1.37E+09	2.12E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.34E+06	1.34E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8.12E+03	1.06E+09	7.65E-12	0.00%	2.74E+05	2.97E-02	62.79%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.47E+04	--	--	--	3.65E+07	4.03E-04	0.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	2.79E+07	8.60E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	1.34E+04	3.96E-10	0.12%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.28E+08	2.02E-03	4.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2.24E+02	--	--	--	4.56E+06	4.91E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	7.11E+04	3.23E-10	0.09%	2.26E+06	1.02E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	6.37E+03	3.68E+10	1.73E-13	0.00%	1.82E+07	3.49E-04	0.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	8.68E+03	--	--	--	6.48E+09	1.34E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.09E+07	9.08E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.40E+04	--	--	--	5.48E+08	4.38E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	3.45E+02	--	--	--	5.48E+08	6.30E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	3.69E+02	--	--	--	2.74E+06	1.35E-04	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	3.07E+04	--	--	--	4.56E+06	6.73E-03	14.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	3.36E+04	--	--	--	2.74E+08	1.23E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.42E-07**	**--**	**--**	**4.72E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	5.70E-02	9.82E+01	5.80E-08	73.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	1.30E-01	6.20E+03	2.10E-09	2.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	1.70E-02	3.01E+02	5.65E-09	7.17%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	1.40E-01	1.07E+03	1.30E-08	16.55%	--	--	--
Total Radiological Risk Estimate							**7.88E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.21E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.11E+03	4.99E+03	4.23E-07	99.82%	2.56E+05	8.26E-03	14.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	6.89E+04	--	--	--	1.82E+08	3.78E-04	0.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	1.34E+03	7.46E-10	0.18%	2.09E+05	4.78E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	3.98E+09	7.61E-14	0.00%	1.82E+06	1.66E-04	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6.92E+03	--	--	--	1.37E+09	5.06E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.86E+03	1.06E+09	9.28E-12	0.00%	2.74E+05	3.60E-02	61.69%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.89E+04	--	--	--	3.65E+07	5.18E-04	0.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	4.50E+00	--	--	--	2.79E+07	1.61E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.35E+05	--	--	--	1.28E+08	2.62E-03	4.49%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	2.42E+02	--	--	--	4.56E+06	5.30E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	3.68E+10	3.02E-13	0.00%	1.82E+07	6.08E-04	1.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	3.00E+02	--	--	--	4.56E+06	6.58E-05	0.11%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	5.48E+08	5.77E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	5.48E+08	8.15E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.85E+02	--	--	--	2.74E+06	1.77E-04	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	4.24E+04	--	--	--	4.56E+06	9.29E-03	15.92%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	4.25E+04	--	--	--	2.74E+08	1.55E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.24E-07**	**--**	**--**	**5.84E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.10E-02	2.77E+03	7.58E-10	3.59%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.60E-02	4.04E+03	3.96E-10	1.88%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	1.70E-01	6.20E+03	2.74E-09	13.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-235	15117-96-1	pCi/g	9.70E-03	3.01E+02	3.23E-09	15.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	1.50E-01	1.07E+03	1.40E-08	66.24%	--	--	--
Total Radiological Risk Estimate							**2.11E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.45E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	2.10E+03	4.99E+03	4.21E-07	100.00%	2.56E+05	8.22E-03	16.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.68E+04	--	--	--	1.82E+08	3.11E-04	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.83E+02	3.98E+09	7.11E-14	0.00%	1.82E+06	1.55E-04	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.63E+01	5.31E+09	1.06E-14	0.00%	8.33E+05	6.76E-05	0.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	4.96E+03	--	--	--	1.37E+09	3.62E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	8.13E+03	1.06E+09	7.65E-12	0.00%	2.74E+05	2.97E-02	59.92%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.57E+04	--	--	--	3.65E+07	4.30E-04	0.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	2.66E+05	--	--	--	1.28E+08	2.08E-03	4.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	2.22E+02	--	--	--	4.56E+06	4.87E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	7.71E+03	3.68E+10	2.10E-13	0.00%	1.82E+07	4.22E-04	0.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	2.55E+04	--	--	--	5.48E+08	4.66E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.04E+02	--	--	--	5.48E+08	7.38E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	2.74E+06	1.49E-04	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	3.56E+04	--	--	--	4.56E+06	7.80E-03	15.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	3.38E+04	--	--	--	2.74E+08	1.23E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.21E-07**	**--**	**--**	**4.96E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	6.20E+03	2.42E-09	10.50%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-235	15117-96-1	pCi/g	2.00E-02	3.01E+02	6.65E-09	28.86%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	1.50E-01	1.07E+03	1.40E-08	60.63%	--	--	--
Total Radiological Risk Estimate							**2.30E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.44E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	ug/kg	6.40E+01	--	--	--	4.18E+07	1.53E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	4.99E+03	5.68E-07	97.58%	2.56E+05	1.11E-02	21.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Barium	7440-39-3	ug/kg	6.25E+04	--	--	--	1.82E+08	3.43E-04	0.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	1.34E+04	9.70E-10	0.17%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	1.34E+03	1.05E-08	1.80%	2.09E+05	6.69E-05	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	1.34E+04	1.42E-09	0.24%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	1.34E+05	6.05E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Beryllium	7440-41-7	ug/kg	2.67E+02	3.98E+09	6.70E-14	0.00%	1.82E+06	1.46E-04	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Boron	7440-42-8	ug/kg	9.58E+02	--	--	--	1.82E+08	5.25E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cadmium	7440-43-9	ug/kg	7.03E+01	5.31E+09	1.32E-14	0.00%	8.33E+05	8.44E-05	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chromium	7440-47-3	ug/kg	5.90E+03	--	--	--	1.37E+09	4.31E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	1.34E+06	1.57E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Cobalt	7440-48-4	ug/kg	8.03E+03	1.06E+09	7.56E-12	0.00%	2.74E+05	2.93E-02	57.38%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Copper	7440-50-8	ug/kg	1.48E+04	--	--	--	3.65E+07	4.05E-04	0.79%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+01	--	--	--	2.79E+07	1.18E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	2.79E+07	1.58E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	1.34E+04	5.75E-10	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Manganese	7439-96-5	ug/kg	3.03E+05	--	--	--	1.28E+08	2.37E-03	4.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Molybdenum	7439-98-7	ug/kg	2.23E+02	--	--	--	4.56E+06	4.89E-05	0.10%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	7.11E+04	6.04E-10	0.10%	2.26E+06	1.90E-05	0.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Nickel	7440-02-0	ug/kg	9.52E+03	3.68E+10	2.59E-13	0.00%	1.82E+07	5.22E-04	1.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.09E+07	1.10E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	ug/kg	3.07E+04	--	--	--	5.48E+08	5.61E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	ug/kg	3.41E+02	--	--	--	5.48E+08	6.23E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	2.74E+06	1.85E-04	0.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Vanadium	7440-62-2	ug/kg	2.88E+04	--	--	--	4.56E+06	6.31E-03	12.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Zinc	7440-66-6	ug/kg	3.67E+04	--	--	--	2.74E+08	1.34E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.82E-07**	**--**	**--**	**5.11E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-02	4.04E+03	4.95E-10	2.61%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	6.20E+03	2.42E-09	12.75%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-235	15117-96-1	pCi/g	6.30E-03	3.01E+02	2.10E-09	11.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	Rad	Uranium-238	U-238	pCi/g	1.50E-01	1.07E+03	1.40E-08	73.60%	--	--	--
Total Radiological Risk Estimate							**1.90E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.01E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	ug/kg	2.10E+02	--	--	--	4.18E+07	5.02E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Arsenic	7440-38-2	ug/kg	2.99E+03	4.99E+03	6.00E-07	85.80%	2.56E+05	1.17E-02	20.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.82E+08	3.82E-04	0.67%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	1.34E+04	5.00E-09	0.72%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	1.34E+03	4.63E-08	6.62%	2.09E+05	2.96E-04	0.52%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	1.34E+04	6.57E-09	0.94%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	1.34E+05	2.84E-10	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	3.98E+09	6.96E-14	0.00%	1.82E+06	1.52E-04	0.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Boron	7440-42-8	ug/kg	1.70E+03	--	--	--	1.82E+08	9.32E-06	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cadmium	7440-43-9	ug/kg	7.52E+01	5.31E+09	1.42E-14	0.00%	8.33E+05	9.02E-05	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chromium	7440-47-3	ug/kg	8.67E+03	--	--	--	1.37E+09	6.33E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	1.34E+06	6.05E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Cobalt	7440-48-4	ug/kg	8.98E+03	1.06E+09	8.46E-12	0.00%	2.74E+05	3.28E-02	57.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.65E+07	4.63E-04	0.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	1.34E+03	3.81E-08	5.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	ug/kg	8.10E+01	--	--	--	2.79E+07	2.90E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	1.34E+04	2.99E-09	0.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.28E+08	2.49E-03	4.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Molybdenum	7439-98-7	ug/kg	2.73E+02	--	--	--	4.56E+06	5.98E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	3.68E+10	2.80E-13	0.00%	1.82E+07	5.64E-04	0.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Nitrate	14797-55-8	ug/kg	5.00E+03	--	--	--	6.48E+09	7.72E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	ug/kg	7.70E+01	--	--	--	2.09E+07	3.68E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	5.48E+08	6.23E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	ug/kg	3.98E+02	--	--	--	5.48E+08	7.27E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Uranium	7440-61-1	ug/kg	5.06E+02	--	--	--	2.74E+06	1.85E-04	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Vanadium	7440-62-2	ug/kg	3.60E+04	--	--	--	4.56E+06	7.89E-03	13.77%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Zinc	7440-66-6	ug/kg	3.88E+04	--	--	--	2.74E+08	1.42E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.99E-07**	**--**	**--**	**5.73E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-233/234	U-233/234	pCi/g	2.00E-01	6.20E+03	3.23E-09	11.96%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-235	15117-96-1	pCi/g	7.00E-03	3.01E+02	2.33E-09	8.63%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	Rad	Uranium-238	U-238	pCi/g	2.30E-01	1.07E+03	2.14E-08	79.41%	--	--	--
Total Radiological Risk Estimate							**2.70E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.26E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	ug/kg	5.50E+02	--	--	--	4.18E+07	1.31E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	ug/kg	1.20E+01	--	--	--	2.09E+08	5.74E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	ug/kg	3.19E+02	--	--	--	3.65E+05	8.74E-04	1.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.99E+03	7.42E-07	84.81%	2.56E+05	1.45E-02	25.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Barium	7440-39-3	ug/kg	5.52E+04	--	--	--	1.82E+08	3.02E-04	0.54%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	1.34E+04	7.39E-09	0.84%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	1.34E+03	8.21E-08	9.39%	2.09E+05	5.26E-04	0.93%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	1.34E+04	1.12E-08	1.28%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	1.34E+05	4.70E-10	0.05%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Beryllium	7440-41-7	ug/kg	2.91E+02	3.98E+09	7.31E-14	0.00%	1.82E+06	1.59E-04	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Boron	7440-42-8	ug/kg	2.97E+03	--	--	--	1.82E+08	1.63E-05	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cadmium	7440-43-9	ug/kg	6.26E+01	5.31E+09	1.18E-14	0.00%	8.33E+05	7.51E-05	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chromium	7440-47-3	ug/kg	8.39E+03	--	--	--	1.37E+09	6.13E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	1.34E+06	1.27E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Cobalt	7440-48-4	ug/kg	8.39E+03	1.06E+09	7.90E-12	0.00%	2.74E+05	3.06E-02	54.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.65E+07	4.52E-04	0.80%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	1.34E+03	2.61E-08	2.99%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	ug/kg	2.10E+02	--	--	--	2.79E+07	7.53E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	1.34E+04	5.45E-09	0.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Manganese	7439-96-5	ug/kg	2.75E+05	--	--	--	1.28E+08	2.15E-03	3.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.56E+06	1.06E-04	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Nickel	7440-02-0	ug/kg	1.91E+04	3.68E+10	5.20E-13	0.00%	1.82E+07	1.05E-03	1.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	ug/kg	1.30E+02	--	--	--	2.09E+07	6.21E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	ug/kg	3.05E+04	--	--	--	5.48E+08	5.57E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	ug/kg	9.83E+02	--	--	--	5.48E+08	1.80E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Uranium	7440-61-1	ug/kg	4.37E+02	--	--	--	2.74E+06	1.60E-04	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Vanadium	7440-62-2	ug/kg	2.39E+04	--	--	--	4.56E+06	5.24E-03	9.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Zinc	7440-66-6	ug/kg	3.27E+04	--	--	--	2.74E+08	1.19E-04	0.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.75E-07**	**--**	**--**	**5.64E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	2.77E+03	7.94E-10	3.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-233/234	U-233/234	pCi/g	1.10E-01	6.20E+03	1.78E-09	8.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-235	15117-96-1	pCi/g	9.90E-03	3.01E+02	3.29E-09	15.18%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Uranium-238	U-238	pCi/g	1.70E-01	1.07E+03	1.58E-08	72.99%	--	--	--
Total Radiological Risk Estimate							**2.17E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.97E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+02	--	--	--	4.18E+07	7.41E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Arsenic	7440-38-2	ug/kg	2.68E+03	4.99E+03	5.37E-07	94.03%	2.56E+05	1.05E-02	19.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Barium	7440-39-3	ug/kg	6.16E+04	--	--	--	1.82E+08	3.38E-04	0.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	1.34E+04	4.85E-09	0.85%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	1.34E+03	2.31E-08	4.05%	2.09E+05	1.48E-04	0.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	1.34E+04	4.25E-09	0.74%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	1.34E+05	1.87E-10	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Beryllium	7440-41-7	ug/kg	3.42E+02	3.98E+09	8.59E-14	0.00%	1.82E+06	1.87E-04	0.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Boron	7440-42-8	ug/kg	1.60E+03	--	--	--	1.82E+08	8.77E-06	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cadmium	7440-43-9	ug/kg	7.16E+01	5.31E+09	1.35E-14	0.00%	8.33E+05	8.59E-05	0.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chromium	7440-47-3	ug/kg	7.71E+03	--	--	--	1.37E+09	5.63E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	1.34E+06	6.49E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Cobalt	7440-48-4	ug/kg	8.67E+03	1.06E+09	8.16E-12	0.00%	2.74E+05	3.17E-02	58.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.65E+07	4.27E-04	0.78%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	2.79E+07	5.38E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	1.34E+04	1.64E-09	0.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.28E+08	2.41E-03	4.43%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Molybdenum	7439-98-7	ug/kg	2.82E+02	--	--	--	4.56E+06	6.18E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	3.68E+10	2.77E-13	0.00%	1.82E+07	5.59E-04	1.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	ug/kg	1.00E+02	--	--	--	2.09E+07	4.78E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	ug/kg	3.12E+04	--	--	--	5.48E+08	5.70E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	ug/kg	4.12E+02	--	--	--	5.48E+08	7.53E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Uranium	7440-61-1	ug/kg	4.84E+02	--	--	--	2.74E+06	1.77E-04	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Vanadium	7440-62-2	ug/kg	3.52E+04	--	--	--	4.56E+06	7.72E-03	14.16%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Zinc	7440-66-6	ug/kg	3.86E+04	--	--	--	2.74E+08	1.41E-04	0.26%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.72E-07**	**--**	**--**	**5.45E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-233/234	U-233/234	pCi/g	1.60E-01	6.20E+03	2.58E-09	12.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-235	15117-96-1	pCi/g	7.70E-03	3.01E+02	2.56E-09	12.21%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	Rad	Uranium-238	U-238	pCi/g	1.70E-01	1.07E+03	1.58E-08	75.48%	--	--	--
Total Radiological Risk Estimate							**2.10E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.93E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	ug/kg	2.70E+01	--	--	--	4.18E+07	6.45E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Arsenic	7440-38-2	ug/kg	2.83E+03	4.99E+03	5.68E-07	99.52%	2.56E+05	1.11E-02	20.48%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Barium	7440-39-3	ug/kg	6.22E+04	--	--	--	1.82E+08	3.41E-04	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	1.34E+04	3.96E-10	0.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	1.34E+03	1.79E-09	0.31%	2.09E+05	1.15E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	1.34E+04	4.18E-10	0.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	1.34E+05	1.42E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	3.98E+09	7.81E-14	0.00%	1.82E+06	1.70E-04	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chromium	7440-47-3	ug/kg	4.71E+03	--	--	--	1.37E+09	3.44E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	1.34E+06	6.94E-12	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Cobalt	7440-48-4	ug/kg	8.77E+03	1.06E+09	8.26E-12	0.00%	2.74E+05	3.20E-02	59.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.65E+07	5.04E-04	0.93%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	ug/kg	1.60E+01	--	--	--	2.79E+07	5.74E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	1.34E+04	1.05E-10	0.02%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Manganese	7439-96-5	ug/kg	2.90E+05	--	--	--	1.28E+08	2.27E-03	4.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Molybdenum	7439-98-7	ug/kg	2.15E+02	--	--	--	4.56E+06	4.71E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Nickel	7440-02-0	ug/kg	8.65E+03	3.68E+10	2.35E-13	0.00%	1.82E+07	4.74E-04	0.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	ug/kg	9.10E+00	--	--	--	2.09E+07	4.35E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Selenium	7782-49-2	ug/kg	3.01E+02	--	--	--	4.56E+06	6.60E-05	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	ug/kg	3.00E+04	--	--	--	5.48E+08	5.48E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	ug/kg	3.76E+02	--	--	--	5.48E+08	6.87E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Uranium	7440-61-1	ug/kg	4.36E+02	--	--	--	2.74E+06	1.59E-04	0.29%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Vanadium	7440-62-2	ug/kg	3.06E+04	--	--	--	4.56E+06	6.71E-03	12.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Zinc	7440-66-6	ug/kg	3.80E+04	--	--	--	2.74E+08	1.39E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.70E-07**	**--**	**--**	**5.41E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	2.77E+03	7.94E-10	3.30%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	6.20E+03	2.91E-09	12.09%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-235	15117-96-1	pCi/g	7.90E-03	3.01E+02	2.63E-09	10.94%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Uranium-238	U-238	pCi/g	1.90E-01	1.07E+03	1.77E-08	73.67%	--	--	--
Total Radiological Risk Estimate							**2.40E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.94E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Arsenic	7440-38-2	ug/kg	3.09E+03	4.99E+03	6.20E-07	99.87%	2.56E+05	1.21E-02	22.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Barium	7440-39-3	ug/kg	6.42E+04	--	--	--	1.82E+08	3.52E-04	0.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	1.34E+03	8.21E-10	0.13%	2.09E+05	5.26E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Beryllium	7440-41-7	ug/kg	2.72E+02	3.98E+09	6.83E-14	0.00%	1.82E+06	1.49E-04	0.27%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Boron	7440-42-8	ug/kg	8.06E+02	--	--	--	1.82E+08	4.42E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cadmium	7440-43-9	ug/kg	8.69E+01	5.31E+09	1.64E-14	0.00%	8.33E+05	1.04E-04	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Chromium	7440-47-3	ug/kg	8.67E+03	--	--	--	1.37E+09	6.33E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Cobalt	7440-48-4	ug/kg	8.26E+03	1.06E+09	7.78E-12	0.00%	2.74E+05	3.02E-02	55.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Copper	7440-50-8	ug/kg	1.68E+04	--	--	--	3.65E+07	4.60E-04	0.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	ug/kg	5.20E+00	--	--	--	2.79E+07	1.86E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Manganese	7439-96-5	ug/kg	3.24E+05	--	--	--	1.28E+08	2.54E-03	4.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Molybdenum	7439-98-7	ug/kg	2.72E+02	--	--	--	4.56E+06	5.96E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	3.68E+10	3.02E-13	0.00%	1.82E+07	6.08E-04	1.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Nitrate	14797-55-8	ug/kg	1.74E+04	--	--	--	6.48E+09	2.69E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	ug/kg	2.80E+00	--	--	--	2.09E+07	1.34E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	ug/kg	2.99E+04	--	--	--	5.48E+08	5.46E-05	0.10%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	ug/kg	3.99E+02	--	--	--	5.48E+08	7.29E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Uranium	7440-61-1	ug/kg	5.29E+02	--	--	--	2.74E+06	1.93E-04	0.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Vanadium	7440-62-2	ug/kg	3.58E+04	--	--	--	4.56E+06	7.85E-03	14.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Zinc	7440-66-6	ug/kg	4.02E+04	--	--	--	2.74E+08	1.47E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.20E-07**	**--**	**--**	**5.48E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	6.20E+03	2.42E-09	8.78%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-235	15117-96-1	pCi/g	2.80E-02	3.01E+02	9.31E-09	33.78%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	Rad	Uranium-238	U-238	pCi/g	1.70E-01	1.07E+03	1.58E-08	57.44%	--	--	--
Total Radiological Risk Estimate							**2.76E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.48E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	ug/kg	1.40E+03	--	--	--	4.18E+07	3.35E-05	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Arsenic	7440-38-2	ug/kg	2.61E+03	4.99E+03	5.23E-07	74.14%	2.56E+05	1.02E-02	19.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Barium	7440-39-3	ug/kg	5.80E+04	--	--	--	1.82E+08	3.18E-04	0.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	1.34E+04	2.09E-08	2.96%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.34E+03	8.96E-08	12.69%	2.09E+05	5.74E-04	1.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.34E+04	1.57E-08	2.22%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	1.34E+05	7.17E-10	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Beryllium	7440-41-7	ug/kg	2.96E+02	3.98E+09	7.43E-14	0.00%	1.82E+06	1.62E-04	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	1.82E+08	2.73E-05	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chromium	7440-47-3	ug/kg	6.70E+03	--	--	--	1.37E+09	4.89E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	1.34E+06	2.61E-10	0.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Cobalt	7440-48-4	ug/kg	8.15E+03	1.06E+09	7.67E-12	0.00%	2.74E+05	2.98E-02	55.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.65E+07	4.52E-04	0.85%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	1.34E+03	5.08E-08	7.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	ug/kg	8.80E+02	--	--	--	2.79E+07	3.15E-05	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	ug/kg	1.00E+02	--	--	--	2.79E+07	3.58E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	1.34E+04	4.70E-09	0.67%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Manganese	7439-96-5	ug/kg	3.06E+05	--	--	--	1.28E+08	2.40E-03	4.50%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Molybdenum	7439-98-7	ug/kg	2.50E+02	--	--	--	4.56E+06	5.48E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nickel	7440-02-0	ug/kg	9.50E+03	3.68E+10	2.58E-13	0.00%	1.82E+07	5.21E-04	0.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Nitrate	14797-55-8	ug/kg	4.56E+03	--	--	--	6.48E+09	7.04E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+02	--	--	--	2.09E+07	2.82E-05	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	ug/kg	2.65E+04	--	--	--	5.48E+08	4.84E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	ug/kg	4.03E+02	--	--	--	5.48E+08	7.36E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Uranium	7440-61-1	ug/kg	3.70E+02	--	--	--	2.74E+06	1.35E-04	0.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Vanadium	7440-62-2	ug/kg	3.82E+04	--	--	--	4.56E+06	8.37E-03	15.71%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Zinc	7440-66-6	ug/kg	3.82E+04	--	--	--	2.74E+08	1.40E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.06E-07**	**--**	**--**	**5.33E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-233/234	U-233/234	pCi/g	1.70E-01	6.20E+03	2.74E-09	11.91%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-235	15117-96-1	pCi/g	7.80E-03	3.01E+02	2.59E-09	11.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	Rad	Uranium-238	U-238	pCi/g	1.90E-01	1.07E+03	1.77E-08	76.83%	--	--	--
Total Radiological Risk Estimate							**2.30E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.29E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+01	--	--	--	4.18E+07	7.41E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	ug/kg	4.60E+00	--	--	--	2.09E+08	2.20E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Arsenic	7440-38-2	ug/kg	2.70E+03	4.99E+03	5.41E-07	98.38%	2.56E+05	1.06E-02	18.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Barium	7440-39-3	ug/kg	6.60E+04	--	--	--	1.82E+08	3.62E-04	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	1.34E+04	5.90E-10	0.11%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	1.34E+03	5.60E-09	1.02%	2.09E+05	3.59E-05	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	1.34E+04	8.21E-10	0.15%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	1.34E+05	3.36E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Beryllium	7440-41-7	ug/kg	2.29E+02	3.98E+09	5.75E-14	0.00%	1.82E+06	1.25E-04	0.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cadmium	7440-43-9	ug/kg	6.36E+01	5.31E+09	1.20E-14	0.00%	8.33E+05	7.63E-05	0.13%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chromium	7440-47-3	ug/kg	6.52E+03	--	--	--	1.37E+09	4.76E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	1.34E+06	1.42E-09	0.26%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Cobalt	7440-48-4	ug/kg	9.36E+03	1.06E+09	8.81E-12	0.00%	2.74E+05	3.42E-02	59.79%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.65E+07	5.15E-04	0.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	2.79E+07	8.60E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	ug/kg	4.10E+00	--	--	--	2.79E+07	1.47E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	1.34E+04	4.18E-10	0.08%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Manganese	7439-96-5	ug/kg	3.31E+05	--	--	--	1.28E+08	2.59E-03	4.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Molybdenum	7439-98-7	ug/kg	2.44E+02	--	--	--	4.56E+06	5.35E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	3.68E+10	2.86E-13	0.00%	1.82E+07	5.75E-04	1.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+01	--	--	--	2.09E+07	2.82E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	5.48E+08	5.84E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	ug/kg	4.31E+02	--	--	--	5.48E+08	7.87E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Uranium	7440-61-1	ug/kg	5.28E+02	--	--	--	2.74E+06	1.93E-04	0.34%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Vanadium	7440-62-2	ug/kg	3.51E+04	--	--	--	4.56E+06	7.69E-03	13.45%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Zinc	7440-66-6	ug/kg	3.92E+04	--	--	--	2.74E+08	1.43E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.50E-07**	**--**	**--**	**5.72E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	pCi/g	7.00E-02	2.77E+03	2.53E-09	0.44%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Cesium-137	10045-97-3	pCi/g	5.00E-01	9.82E+01	5.09E-07	88.75%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.20E-01	4.04E+03	2.97E-09	0.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+00	5.28E+03	2.84E-08	4.96%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-233/234	U-233/234	pCi/g	2.30E-01	6.20E+03	3.71E-09	0.65%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-235	15117-96-1	pCi/g	2.20E-02	3.01E+02	7.32E-09	1.28%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Uranium-238	U-238	pCi/g	2.10E-01	1.07E+03	1.96E-08	3.41%	--	--	--
Total Radiological Risk Estimate							**5.73E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.12E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	4.99E+03	2.59E-07	100.00%	2.56E+05	5.05E-03	12.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Barium	7440-39-3	ug/kg	4.00E+04	--	--	--	1.82E+08	2.19E-04	0.52%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Beryllium	7440-41-7	ug/kg	1.75E+02	3.98E+09	4.39E-14	0.00%	1.82E+06	9.59E-05	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Boron	7440-42-8	ug/kg	5.49E+02	--	--	--	1.82E+08	3.01E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Chromium	7440-47-3	ug/kg	1.45E+03	--	--	--	1.37E+09	1.06E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	1.06E+09	7.37E-12	0.00%	2.74E+05	2.86E-02	68.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Copper	7440-50-8	ug/kg	1.44E+04	--	--	--	3.65E+07	3.95E-04	0.94%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	ug/kg	5.70E+00	--	--	--	2.79E+07	2.04E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Manganese	7439-96-5	ug/kg	2.05E+05	--	--	--	1.28E+08	1.61E-03	3.82%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Molybdenum	7439-98-7	ug/kg	1.75E+02	--	--	--	4.56E+06	3.84E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Nickel	7440-02-0	ug/kg	5.20E+03	3.68E+10	1.41E-13	0.00%	1.82E+07	2.85E-04	0.68%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Selenium	7782-49-2	ug/kg	2.82E+02	--	--	--	4.56E+06	6.18E-05	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	ug/kg	2.16E+04	--	--	--	5.48E+08	3.95E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	ug/kg	2.83E+02	--	--	--	5.48E+08	5.17E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Uranium	7440-61-1	ug/kg	3.73E+02	--	--	--	2.74E+06	1.36E-04	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Vanadium	7440-62-2	ug/kg	2.47E+04	--	--	--	4.56E+06	5.41E-03	12.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Zinc	7440-66-6	ug/kg	2.73E+04	--	--	--	2.74E+08	9.97E-05	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.59E-07**	**--**	**--**	**4.20E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	6.20E+03	2.42E-09	8.30%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-235	15117-96-1	pCi/g	3.00E-02	3.01E+02	9.98E-09	34.21%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	Rad	Uranium-238	U-238	pCi/g	1.80E-01	1.07E+03	1.68E-08	57.49%	--	--	--
Total Radiological Risk Estimate							**2.92E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.88E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	ug/kg	4.10E+02	--	--	--	4.18E+07	9.80E-06	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	ug/kg	2.90E+01	--	--	--	2.09E+08	1.39E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Arsenic	7440-38-2	ug/kg	2.39E+03	4.99E+03	4.79E-07	85.69%	2.56E+05	9.35E-03	21.38%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Barium	7440-39-3	ug/kg	5.18E+04	--	--	--	1.82E+08	2.84E-04	0.65%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	1.34E+04	1.12E-08	2.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	1.34E+03	5.30E-08	9.48%	2.09E+05	3.39E-04	0.78%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	1.34E+04	8.96E-09	1.60%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	1.34E+05	4.18E-10	0.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Beryllium	7440-41-7	ug/kg	2.47E+02	3.98E+09	6.20E-14	0.00%	1.82E+06	1.35E-04	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Boron	7440-42-8	ug/kg	2.01E+03	--	--	--	1.82E+08	1.10E-05	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cadmium	7440-43-9	ug/kg	6.22E+01	5.31E+09	1.17E-14	0.00%	8.33E+05	7.46E-05	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chromium	7440-47-3	ug/kg	7.09E+03	--	--	--	1.37E+09	5.18E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	1.34E+06	1.49E-10	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Cobalt	7440-48-4	ug/kg	6.86E+03	1.06E+09	6.46E-12	0.00%	2.74E+05	2.51E-02	57.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Copper	7440-50-8	ug/kg	1.38E+04	--	--	--	3.65E+07	3.78E-04	0.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+02	--	--	--	2.79E+07	1.18E-05	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	2.79E+07	1.58E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	1.34E+04	2.39E-09	0.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Manganese	7439-96-5	ug/kg	2.47E+05	--	--	--	1.28E+08	1.93E-03	4.42%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Molybdenum	7439-98-7	ug/kg	2.11E+02	--	--	--	4.56E+06	4.62E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	7.11E+04	3.94E-09	0.70%	2.26E+06	1.24E-04	0.28%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nickel	7440-02-0	ug/kg	8.64E+03	3.68E+10	2.35E-13	0.00%	1.82E+07	4.73E-04	1.08%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Nitrate	14797-55-8	ug/kg	4.39E+03	--	--	--	6.48E+09	6.78E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	ug/kg	2.20E+02	--	--	--	2.09E+07	1.05E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	5.48E+08	5.44E-05	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	ug/kg	2.84E+02	--	--	--	5.48E+08	5.19E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Uranium	7440-61-1	ug/kg	3.71E+02	--	--	--	2.74E+06	1.36E-04	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Vanadium	7440-62-2	ug/kg	2.37E+04	--	--	--	4.56E+06	5.19E-03	11.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Zinc	7440-66-6	ug/kg	3.11E+04	--	--	--	2.74E+08	1.14E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.59E-07**	**--**	**--**	**4.37E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	pCi/g	3.00E-02	2.77E+03	1.08E-09	4.44%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.80E-02	4.04E+03	4.45E-10	1.83%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	6.20E+03	2.91E-09	11.91%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-235	15117-96-1	pCi/g	1.80E-02	3.01E+02	5.99E-09	24.54%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Uranium-238	U-238	pCi/g	1.50E-01	1.07E+03	1.40E-08	57.28%	--	--	--
Total Radiological Risk Estimate							**2.44E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.84E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	ug/kg	5.80E+01	--	--	--	4.18E+07	1.39E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	2.91E+03	9.62E-09	2.64%	1.37E+04	2.04E-03	4.33%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Arsenic	7440-38-2	ug/kg	1.71E+03	4.99E+03	3.43E-07	94.09%	2.56E+05	6.69E-03	14.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Barium	7440-39-3	ug/kg	4.54E+04	--	--	--	1.82E+08	2.49E-04	0.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	1.34E+04	8.96E-10	0.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	1.34E+03	8.96E-09	2.46%	2.09E+05	5.74E-05	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.34E+04	1.05E-09	0.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	1.34E+05	5.15E-11	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Beryllium	7440-41-7	ug/kg	1.89E+02	3.98E+09	4.75E-14	0.00%	1.82E+06	1.04E-04	0.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cadmium	7440-43-9	ug/kg	8.28E+01	5.31E+09	1.56E-14	0.00%	8.33E+05	9.94E-05	0.21%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chromium	7440-47-3	ug/kg	2.37E+03	--	--	--	1.37E+09	1.73E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.34E+06	1.34E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	1.06E+09	7.46E-12	0.00%	2.74E+05	2.89E-02	61.36%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Copper	7440-50-8	ug/kg	1.56E+04	--	--	--	3.65E+07	4.27E-04	0.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	2.79E+07	1.04E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	ug/kg	4.50E+00	--	--	--	2.79E+07	1.61E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	1.34E+04	5.52E-10	0.15%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Manganese	7439-96-5	ug/kg	2.18E+05	--	--	--	1.28E+08	1.71E-03	3.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Molybdenum	7439-98-7	ug/kg	2.34E+02	--	--	--	4.56E+06	5.13E-05	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	7.11E+04	4.08E-10	0.11%	2.26E+06	1.28E-05	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Nickel	7440-02-0	ug/kg	5.65E+03	3.68E+10	1.54E-13	0.00%	1.82E+07	3.10E-04	0.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.09E+07	1.10E-06	0.00%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	ug/kg	2.32E+04	--	--	--	5.48E+08	4.24E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	ug/kg	3.18E+02	--	--	--	5.48E+08	5.81E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Uranium	7440-61-1	ug/kg	4.08E+02	--	--	--	2.74E+06	1.49E-04	0.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Vanadium	7440-62-2	ug/kg	2.81E+04	--	--	--	4.56E+06	6.16E-03	13.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Zinc	7440-66-6	ug/kg	3.09E+04	--	--	--	2.74E+08	1.13E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.64E-07**	**--**	**--**	**4.72E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.10E-02	4.04E+03	2.72E-10	1.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-233/234	U-233/234	pCi/g	1.20E-01	6.20E+03	1.94E-09	8.90%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-235	15117-96-1	pCi/g	1.40E-02	3.01E+02	4.66E-09	21.39%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	Rad	Uranium-238	U-238	pCi/g	1.60E-01	1.07E+03	1.49E-08	68.46%	--	--	--
Total Radiological Risk Estimate							**2.18E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.86E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	ug/kg	3.92E+02	--	--	--	3.65E+05	1.07E-03	1.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	2.91E+03	8.59E-08	9.78%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Arsenic	7440-38-2	ug/kg	3.83E+03	4.99E+03	7.68E-07	87.44%	2.56E+05	1.50E-02	22.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Barium	7440-39-3	ug/kg	7.26E+04	--	--	--	1.82E+08	3.98E-04	0.60%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	1.34E+04	2.69E-09	0.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	1.34E+03	1.72E-08	1.95%	2.09E+05	1.10E-04	0.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	1.34E+04	2.61E-09	0.30%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	1.34E+05	1.12E-10	0.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	3.98E+09	8.96E-14	0.00%	1.82E+06	1.96E-04	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Boron	7440-42-8	ug/kg	1.45E+03	--	--	--	1.82E+08	7.95E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cadmium	7440-43-9	ug/kg	1.04E+02	5.31E+09	1.96E-14	0.00%	8.33E+05	1.25E-04	0.19%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chromium	7440-47-3	ug/kg	6.60E+03	--	--	--	1.37E+09	4.82E-06	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	1.34E+06	3.06E-11	0.00%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	1.06E+09	9.10E-12	0.00%	2.74E+05	3.53E-02	53.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.65E+07	5.04E-04	0.76%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	ug/kg	8.90E+01	--	--	--	2.79E+07	3.19E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	1.34E+04	1.79E-09	0.20%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Manganese	7439-96-5	ug/kg	3.21E+05	--	--	--	1.28E+08	2.51E-03	3.80%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	ug/kg	6.25E+02	--	--	--	4.56E+06	1.37E-04	0.21%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nickel	7440-02-0	ug/kg	9.75E+03	3.68E+10	2.65E-13	0.00%	1.82E+07	5.34E-04	0.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Nitrate	14797-55-8	ug/kg	4.65E+03	--	--	--	6.48E+09	7.18E-07	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.09E+07	3.15E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Selenium	7782-49-2	ug/kg	2.73E+02	--	--	--	4.56E+06	5.98E-05	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Silver	7440-22-4	ug/kg	5.87E+01	--	--	--	4.56E+06	1.29E-05	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	ug/kg	3.49E+04	--	--	--	5.48E+08	6.37E-05	0.10%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	ug/kg	5.72E+02	--	--	--	5.48E+08	1.04E-06	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Uranium	7440-61-1	ug/kg	5.48E+02	--	--	--	2.74E+06	2.00E-04	0.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Vanadium	7440-62-2	ug/kg	4.44E+04	--	--	--	4.56E+06	9.73E-03	14.71%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Zinc	7440-66-6	ug/kg	4.56E+04	--	--	--	2.74E+08	1.67E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.78E-07**	**--**	**--**	**6.62E-02**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Cesium-137	10045-97-3	pCi/g	5.90E-02	9.82E+01	6.01E-08	75.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.10E-02	4.04E+03	2.72E-10	0.34%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-233/234	U-233/234	pCi/g	1.40E-01	6.20E+03	2.26E-09	2.84%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-235	15117-96-1	pCi/g	6.10E-03	3.01E+02	2.03E-09	2.55%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	Rad	Uranium-238	U-238	pCi/g	1.60E-01	1.07E+03	1.49E-08	18.74%	--	--	--
Total Radiological Risk Estimate							**7.95E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.58E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.74E+03	4.99E+03	5.50E-07	100.00%	2.56E+05	1.07E-02	17.86%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Barium	7440-39-3	ug/kg	8.02E+04	--	--	--	1.82E+08	4.39E-04	0.73%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	3.52E+02	3.98E+09	8.84E-14	0.00%	1.82E+06	1.93E-04	0.32%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	7.81E+01	5.31E+09	1.47E-14	0.00%	8.33E+05	9.37E-05	0.16%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8.44E+03	--	--	--	1.37E+09	6.17E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8.99E+03	1.06E+09	8.47E-12	0.00%	2.74E+05	3.29E-02	54.70%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Copper	7440-50-8	ug/kg	1.61E+04	--	--	--	3.65E+07	4.42E-04	0.74%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.28E+08	2.46E-03	4.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	2.74E+05	1.11E-04	0.18%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	3.76E+02	--	--	--	4.56E+06	8.23E-05	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	3.68E+10	2.76E-13	0.00%	1.82E+07	5.55E-04	0.92%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2.56E+02	--	--	--	4.56E+06	5.62E-05	0.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Silver	7440-22-4	ug/kg	3.82E+01	--	--	--	4.56E+06	8.37E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	5.48E+08	5.85E-05	0.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.42E+02	--	--	--	5.48E+08	8.08E-07	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	6.01E+02	--	--	--	2.74E+06	2.19E-04	0.37%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	4.56E+06	1.16E-02	19.27%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	4.76E+04	--	--	--	2.74E+08	1.74E-04	0.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.50E-07**	**--**	**--**	**6.01E-02**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	pCi/g	3.80E-02	2.77E+03	1.37E-09	0.30%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	1.98E-01	9.82E+01	2.02E-07	43.65%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	4.20E-02	5.72E+01	7.35E-08	15.88%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.02E-01	6.39E+01	1.60E-07	34.60%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	pCi/g	9.20E-02	5.87E+03	1.57E-09	0.34%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.39E-02	4.04E+03	3.45E-10	0.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	1.77E-01	6.20E+03	2.85E-09	0.62%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	1.15E-02	3.01E+02	3.83E-09	0.83%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Uranium-238	U-238	pCi/g	1.84E-01	1.07E+03	1.71E-08	3.71%	--	--	--
Total Radiological Risk Estimate							**4.63E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.01E-06**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.93E+02	--	--	--	3.65E+05	5.29E-04	0.83%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.73E+03	4.99E+03	5.47E-07	100.00%	2.56E+05	1.07E-02	16.80%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.94E+04	--	--	--	1.82E+08	3.80E-04	0.60%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.06E+02	3.98E+09	1.02E-13	0.00%	1.82E+06	2.22E-04	0.35%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.30E+01	5.31E+09	1.56E-14	0.00%	8.33E+05	9.96E-05	0.16%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8.07E+03	--	--	--	1.37E+09	5.89E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	1.06E+09	9.22E-12	0.00%	2.74E+05	3.58E-02	56.34%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.76E+04	--	--	--	3.65E+07	4.83E-04	0.76%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.26E+05	--	--	--	1.28E+08	2.55E-03	4.02%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.82E+02	--	--	--	4.56E+06	8.37E-05	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	3.68E+10	2.84E-13	0.00%	1.82E+07	5.72E-04	0.90%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.56E+06	6.16E-05	0.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Silver	7440-22-4	ug/kg	4.13E+01	--	--	--	4.56E+06	9.05E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.30E+04	--	--	--	5.48E+08	6.02E-05	0.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.56E+02	--	--	--	5.48E+08	8.34E-07	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.30E+02	--	--	--	2.74E+06	1.94E-04	0.30%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.31E+04	--	--	--	4.56E+06	1.16E-02	18.34%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.49E+04	--	--	--	2.74E+08	1.64E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.47E-07**	**--**	**--**	**6.35E-02**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	pCi/g	9.15E-02	2.77E+03	3.30E-09	0.15%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.60E+00	9.82E+01	1.63E-06	74.69%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	5.72E+01	6.65E-08	3.05%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.79E-01	6.39E+01	4.37E-07	20.06%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	2.64E-02	4.61E+03	5.71E-10	0.03%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.59E-01	4.04E+03	3.92E-09	0.18%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	8.90E-01	5.28E+03	1.69E-08	0.77%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.55E-01	6.20E+03	2.51E-09	0.12%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.54E-02	3.01E+02	5.13E-09	0.24%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Uranium-238	U-238	pCi/g	1.69E-01	1.07E+03	1.57E-08	0.72%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate							**2.18E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.73E-06**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Anthracene	120-12-7	ug/kg	2.20E+00	--	--	--	2.09E+08	1.05E-08	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+02	--	--	--	3.65E+05	3.29E-04	0.45%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	2.91E+03	7.56E-09	1.82%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.00E+03	4.99E+03	4.01E-07	96.69%	2.56E+05	7.83E-03	10.61%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	6.30E+04	--	--	--	1.82E+08	3.45E-04	0.47%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	1.34E+04	5.45E-10	0.13%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	1.34E+03	4.78E-09	1.15%	2.09E+05	3.06E-05	0.04%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	1.34E+04	5.67E-10	0.14%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	1.34E+05	2.16E-11	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	3.98E+09	7.03E-14	0.00%	1.82E+06	1.53E-04	0.21%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	5.31E+09	1.64E-14	0.00%	8.33E+05	1.04E-04	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	4.70E+03	--	--	--	1.37E+09	3.43E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.34E+06	8.96E-12	0.00%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.22E+04	1.06E+09	1.15E-11	0.00%	2.74E+05	4.46E-02	60.41%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.65E+07	4.68E-04	0.63%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	1.80E+01	--	--	--	2.79E+07	6.45E-07	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	1.34E+04	2.24E-10	0.05%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Lithium	7439-93-2	ug/kg	4.60E+03	--	--	--	1.83E+06	2.52E-03	3.42%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	3.64E+05	--	--	--	1.28E+08	2.85E-03	3.86%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.30E+02	--	--	--	4.56E+06	9.42E-05	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9.00E+03	3.68E+10	2.45E-13	0.00%	1.82E+07	4.93E-04	0.67%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Nitrate	14797-55-8	ug/kg	2.39E+03	--	--	--	6.48E+09	3.69E-07	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.09E+07	9.08E-07	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	4.56E+06	3.95E-04	0.53%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Silver	7440-22-4	ug/kg	4.90E+01	--	--	--	4.56E+06	1.07E-05	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	5.48E+08	4.64E-05	0.06%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	5.48E+08	1.08E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	4.60E+02	--	--	--	2.74E+06	1.68E-04	0.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.02E+04	--	--	--	4.56E+06	1.32E-02	17.88%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	4.81E+04	--	--	--	2.74E+08	1.76E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.15E-07**	--	--	**7.38E-02**	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	4.06E-01	6.20E+03	6.55E-09	18.40%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	3.12E-01	1.07E+03	2.91E-08	81.60%	--	--	--
Total Radiological Risk Estimate							**3.56E-08**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**4.50E-07**	--	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+03	--	--	--	3.65E+05	3.29E-03	4.78%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	2.91E+03	7.22E-09	1.07%	1.37E+04	1.53E-03	2.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	2.91E+03	4.12E-09	0.61%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.99E+03	6.22E-07	91.94%	2.56E+05	1.21E-02	17.62%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.82E+08	3.17E-04	0.46%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	1.34E+04	3.73E-09	0.55%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	1.34E+03	3.58E-08	5.30%	2.09E+05	2.29E-04	0.33%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	1.34E+04	3.51E-09	0.52%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	2.70E+02	3.98E+09	6.78E-14	0.00%	1.82E+06	1.48E-04	0.21%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.10E+02	5.31E+09	2.07E-14	0.00%	8.33E+05	1.32E-04	0.19%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	6.60E+03	--	--	--	1.37E+09	4.82E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	1.34E+06	5.45E-11	0.01%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	1.06E+09	8.29E-12	0.00%	2.74E+05	3.21E-02	46.70%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.81E+04	--	--	--	3.65E+07	4.96E-04	0.72%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	2.79E+07	5.38E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Lithium	7439-93-2	ug/kg	5.40E+03	--	--	--	1.83E+06	2.96E-03	4.30%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	3.00E+05	--	--	--	1.28E+08	2.35E-03	3.41%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.00E+02	--	--	--	4.56E+06	8.77E-05	0.13%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	9.40E+03	3.68E+10	2.56E-13	0.00%	1.82E+07	5.15E-04	0.75%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	4.56E+06	3.51E-04	0.51%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Silver	7440-22-4	ug/kg	4.50E+01	--	--	--	4.56E+06	9.86E-06	0.01%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	5.48E+08	5.08E-05	0.07%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	5.48E+08	1.04E-06	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Uranium	7440-61-1	ug/kg	4.30E+02	--	--	--	2.74E+06	1.57E-04	0.23%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.36E+04	--	--	--	4.56E+06	1.17E-02	17.07%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	5.03E+04	--	--	--	2.74E+08	1.84E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.76E-07**	**--**	**--**	**6.88E-02**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.26E-01	2.77E+03	8.15E-09	0.39%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Cesium-137	10045-97-3	pCi/g	1.61E+00	9.82E+01	1.64E-06	78.82%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	6.39E+01	3.52E-07	16.95%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Strontium-90	10098-97-2	pCi/g	9.56E-01	5.28E+03	1.81E-08	0.87%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	5.97E-01	6.20E+03	9.64E-09	0.46%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	5.60E-01	1.07E+03	5.22E-08	2.51%	--	--	--
Total Radiological Risk Estimate							**2.08E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.76E-06**	**--**	**--**	**--**	**--**
100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.54E+02	--	--	--	3.65E+05	1.52E-03	2.18%
100-K-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.19E+03	4.99E+03	6.40E-07	100.00%	2.56E+05	1.25E-02	17.95%
100-K-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	9.81E+04	--	--	--	1.82E+08	5.38E-04	0.77%
100-K-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.16E+02	3.98E+09	1.04E-13	0.00%	1.82E+06	2.28E-04	0.33%
100-K-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.04E+01	5.31E+09	1.51E-14	0.00%	8.33E+05	9.65E-05	0.14%
100-K-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9.00E+03	--	--	--	1.37E+09	6.58E-06	0.01%
100-K-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	1.07E+04	1.06E+09	1.01E-11	0.00%	2.74E+05	3.91E-02	56.21%
100-K-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.99E+04	--	--	--	3.65E+07	5.45E-04	0.78%
100-K-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	4.24E+05	--	--	--	1.28E+08	3.32E-03	4.78%
100-K-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.35E+02	--	--	--	4.56E+06	9.53E-05	0.14%
100-K-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	3.68E+10	2.80E-13	0.00%	1.82E+07	5.64E-04	0.81%
100-K-3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.56E+06	6.16E-05	0.09%
100-K-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.60E+01	--	--	--	4.56E+06	1.23E-05	0.02%
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	5.48E+08	6.23E-05	0.09%
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.36E+02	--	--	--	5.48E+08	1.16E-06	0.00%
100-K-3_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	8.15E+02	--	--	--	2.74E+06	2.98E-04	0.43%
100-K-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.77E+04	--	--	--	4.56E+06	1.05E-02	15.04%
100-K-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.46E+04	--	--	--	2.74E+08	1.63E-04	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.40E-07**	**--**	**--**	**6.95E-02**	**--**
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	3.50E-02	2.77E+03	1.26E-09	0.13%	--	--	--
100-K-3_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	2.30E-01	9.82E+01	2.34E-07	24.79%	--	--	--
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	4.40E-01	6.39E+01	6.89E-07	72.97%	--	--	--
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.70E-02	4.04E+03	1.16E-09	0.12%	--	--	--
100-K-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	6.20E+03	2.91E-09	0.31%	--	--	--
100-K-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	1.70E-01	1.07E+03	1.58E-08	1.68%	--	--	--
Total Radiological Risk Estimate							**9.44E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.58E-06**	**--**	**--**	**--**	**--**
100-K-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.73E+03	4.99E+03	7.48E-07	100.00%	2.56E+05	1.46E-02	22.73%
100-K-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.01E+04	--	--	--	1.82E+08	3.84E-04	0.60%
100-K-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.34E+02	3.98E+09	8.39E-14	0.00%	1.82E+06	1.83E-04	0.29%
100-K-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.33E+02	--	--	--	1.82E+08	4.56E-06	0.01%
100-K-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.33E+01	5.31E+09	1.57E-14	0.00%	8.33E+05	1.00E-04	0.16%
100-K-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6.54E+03	--	--	--	1.37E+09	4.78E-06	0.01%
100-K-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.10E+03	1.06E+09	8.57E-12	0.00%	2.74E+05	3.32E-02	51.77%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.65E+07	4.77E-04	0.74%
100-K-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.01E+05	--	--	--	1.28E+08	2.36E-03	3.67%
100-K-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.94E+02	--	--	--	4.56E+06	8.64E-05	0.13%
100-K-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9.59E+03	3.68E+10	2.61E-13	0.00%	1.82E+07	5.26E-04	0.82%
100-K-3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.33E+03	--	--	--	6.48E+09	9.77E-07	0.00%
100-K-3_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	2.62E+02	--	--	--	4.56E+06	5.74E-05	0.09%
100-K-3_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	3.45E+01	--	--	--	4.56E+06	7.56E-06	0.01%
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.94E-05	0.09%
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	5.48E+08	8.79E-07	0.00%
100-K-3_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.22E+02	--	--	--	2.74E+06	1.91E-04	0.30%
100-K-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.37E+04	--	--	--	4.56E+06	1.18E-02	18.33%
100-K-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.50E+04	--	--	--	2.74E+08	1.64E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.48E-07**	**--**	**--**	**6.42E-02**	**--**
100-K-3_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	7.70E-02	9.82E+01	7.84E-08	68.04%	--	--	--
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.40E-02	4.04E+03	1.34E-09	1.16%	--	--	--
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E-01	5.28E+03	1.27E-08	11.02%	--	--	--
100-K-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	2.00E-01	6.20E+03	3.23E-09	2.80%	--	--	--
100-K-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	2.10E-01	1.07E+03	1.96E-08	16.98%	--	--	--
Total Radiological Risk Estimate							**1.15E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.63E-07**	**--**	**--**	**--**	**--**
100-K-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	4.99E+03	5.21E-07	100.00%	2.56E+05	1.02E-02	13.47%
100-K-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.97E+04	--	--	--	1.82E+08	3.82E-04	0.51%
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	5.31E+09	1.21E-13	0.00%	8.33E+05	7.68E-04	1.02%
100-K-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.52E+04	--	--	--	1.37E+09	1.11E-05	0.01%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	4.11E+07	1.71E-11	0.00%	2.74E+06	2.56E-04	0.34%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	2.74E+05	6.39E-02	84.65%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.21E-07**	**--**	**--**	**7.55E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.21E-07**	**--**	**--**	**--**	**--**
100-K-31_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	100.00%	2.56E+05	1.10E-02	34.29%
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.82E+08	9.26E-04	2.90%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	5.31E+09	1.41E-13	0.00%	8.33E+05	9.00E-04	2.82%
100-K-31_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.37E+09	7.53E-06	0.02%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	4.11E+07	5.35E-12	0.00%	2.74E+06	8.04E-05	0.25%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	2.74E+05	1.90E-02	59.45%
100-K-31_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	4.00E+02	--	--	--	4.56E+06	8.77E-05	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-07**	**--**	**--**	**3.20E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
100-K-32_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.00E+03	4.99E+03	6.02E-07	100.00%	2.56E+05	1.17E-02	18.67%
100-K-32_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	9.74E+04	--	--	--	1.82E+08	5.34E-04	0.85%
100-K-32_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.80E+02	5.31E+09	7.16E-14	0.00%	8.33E+05	4.56E-04	0.73%
100-K-32_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.69E+04	--	--	--	1.37E+09	1.23E-05	0.02%
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	4.11E+07	5.60E-12	0.00%	2.74E+06	8.40E-05	0.13%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	2.74E+05	5.00E-02	79.60%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.02E-07**	**--**	**--**	**6.29E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.02E-07**	**--**	**--**	**--**	**--**
100-K-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.70E+03	4.99E+03	1.34E-06	100.00%	2.56E+05	2.62E-02	49.13%
100-K-33_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.05E+05	--	--	--	1.82E+08	5.75E-04	1.08%
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	5.31E+09	1.88E-13	0.00%	8.33E+05	1.20E-03	2.25%
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.29E+04	--	--	--	1.37E+09	1.67E-05	0.03%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	4.11E+07	3.41E-11	0.00%	2.74E+06	5.11E-04	0.96%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	2.74E+05	2.48E-02	46.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.34E-06**	**--**	**--**	**5.34E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.34E-06**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	ug/kg	5.55E+02	--	--	--	3.65E+05	1.52E-03	2.24%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.99E+03	7.41E-07	100.00%	2.56E+05	1.45E-02	21.32%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Barium	7440-39-3	ug/kg	6.70E+04	--	--	--	1.82E+08	3.67E-04	0.54%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	3.98E+09	8.51E-14	0.00%	1.82E+06	1.86E-04	0.27%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Boron	7440-42-8	ug/kg	1.25E+03	--	--	--	1.82E+08	6.85E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cadmium	7440-43-9	ug/kg	8.61E+01	5.31E+09	1.62E-14	0.00%	8.33E+05	1.03E-04	0.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Chromium	7440-47-3	ug/kg	7.23E+03	--	--	--	1.37E+09	5.28E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Cobalt	7440-48-4	ug/kg	9.87E+03	1.06E+09	9.29E-12	0.00%	2.74E+05	3.61E-02	53.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Copper	7440-50-8	ug/kg	1.88E+04	--	--	--	3.65E+07	5.15E-04	0.76%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.28E+08	2.72E-03	4.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	2.74E+05	4.53E-04	0.67%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	4.52E+02	--	--	--	4.56E+06	9.91E-05	0.15%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.04E+04	3.68E+10	2.83E-13	0.00%	1.82E+07	5.70E-04	0.84%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+04	--	--	--	6.48E+09	1.87E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	4.56E+06	5.92E-05	0.09%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Silver	7440-22-4	ug/kg	3.05E+01	--	--	--	4.56E+06	6.68E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	ug/kg	3.50E+04	--	--	--	5.48E+08	6.40E-05	0.09%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	ug/kg	6.02E+02	--	--	--	5.48E+08	1.10E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Uranium	7440-61-1	ug/kg	5.70E+02	--	--	--	2.74E+06	2.08E-04	0.31%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Vanadium	7440-62-2	ug/kg	4.68E+04	--	--	--	4.56E+06	1.03E-02	15.12%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Zinc	7440-66-6	ug/kg	4.77E+04	--	--	--	2.74E+08	1.74E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.41E-07**	**--**	**--**	**6.78E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.41E-07**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	ug/kg	1.73E+02	--	--	--	3.65E+05	4.74E-04	0.80%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	4.99E+03	6.36E-07	100.00%	2.56E+05	1.24E-02	21.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Barium	7440-39-3	ug/kg	6.67E+04	--	--	--	1.82E+08	3.65E-04	0.62%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.51E+02	3.98E+09	8.81E-14	0.00%	1.82E+06	1.92E-04	0.33%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Boron	7440-42-8	ug/kg	1.08E+03	--	--	--	1.82E+08	5.92E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cadmium	7440-43-9	ug/kg	6.92E+01	5.31E+09	1.30E-14	0.00%	8.33E+05	8.30E-05	0.14%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Chromium	7440-47-3	ug/kg	7.00E+03	--	--	--	1.37E+09	5.12E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Cobalt	7440-48-4	ug/kg	8.47E+03	1.06E+09	7.98E-12	0.00%	2.74E+05	3.09E-02	52.37%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Copper	7440-50-8	ug/kg	1.75E+04	--	--	--	3.65E+07	4.79E-04	0.81%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Manganese	7439-96-5	ug/kg	3.28E+05	--	--	--	1.28E+08	2.57E-03	4.34%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	3.62E+02	--	--	--	4.56E+06	7.94E-05	0.13%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nickel	7440-02-0	ug/kg	9.36E+03	3.68E+10	2.55E-13	0.00%	1.82E+07	5.13E-04	0.87%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Nitrate	14797-55-8	ug/kg	5.09E+03	--	--	--	6.48E+09	7.86E-07	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Silver	7440-22-4	ug/kg	3.07E+01	--	--	--	4.56E+06	6.74E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	ug/kg	3.31E+04	--	--	--	5.48E+08	6.05E-05	0.10%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	ug/kg	4.39E+02	--	--	--	5.48E+08	8.02E-07	0.00%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Uranium	7440-61-1	ug/kg	5.27E+02	--	--	--	2.74E+06	1.93E-04	0.33%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Vanadium	7440-62-2	ug/kg	4.81E+04	--	--	--	4.56E+06	1.05E-02	17.86%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Zinc	7440-66-6	ug/kg	4.11E+04	--	--	--	2.74E+08	1.50E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.36E-07**	**--**	**--**	**5.91E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.36E-07**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.17E+02	--	--	--	3.65E+05	1.14E-03	1.43%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.67E+03	4.99E+03	7.36E-07	100.00%	2.56E+05	1.44E-02	17.93%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.69E+04	--	--	--	1.82E+08	3.67E-04	0.46%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	3.98E+09	8.03E-14	0.00%	1.82E+06	1.75E-04	0.22%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	1.82E+08	9.64E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.41E+02	5.31E+09	2.66E-14	0.00%	8.33E+05	1.69E-04	0.21%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.37E+09	7.96E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.13E+04	1.06E+09	1.06E-11	0.00%	2.74E+05	4.13E-02	51.55%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.35E+04	--	--	--	3.65E+07	6.43E-04	0.80%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	4.11E+07	3.02E-12	0.00%	2.74E+06	4.53E-05	0.06%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.83E+05	--	--	--	1.28E+08	3.00E-03	3.75%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	2.74E+05	6.90E-04	0.86%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	9.67E+02	--	--	--	4.56E+06	2.12E-04	0.26%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	3.68E+10	5.76E-13	0.00%	1.82E+07	1.16E-03	1.45%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	3.83E+04	--	--	--	6.48E+09	5.91E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.54E+02	--	--	--	4.56E+06	1.65E-04	0.21%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.37E+04	--	--	--	5.48E+08	6.16E-05	0.08%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	1.62E+03	--	--	--	5.48E+08	2.96E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.75E+02	--	--	--	2.74E+06	2.47E-04	0.31%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	4.56E+06	1.61E-02	20.12%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.83E+04	--	--	--	2.74E+08	2.13E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.36E-07**	**--**	**--**	**8.01E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.36E-07**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	7.70E+03	--	--	--	3.65E+05	2.11E-02	13.97%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.48E+04	4.99E+03	2.97E-06	100.00%	2.56E+05	5.79E-02	38.36%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.55E+04	--	--	--	1.82E+08	4.69E-04	0.31%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	3.98E+09	1.03E-13	0.00%	1.82E+06	2.25E-04	0.15%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	5.31E+09	1.79E-13	0.00%	8.33E+05	1.14E-03	0.76%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.39E+04	--	--	--	1.37E+09	1.02E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.20E+04	1.06E+09	1.13E-11	0.00%	2.74E+05	4.38E-02	29.04%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.05E+04	--	--	--	3.65E+07	8.36E-04	0.55%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	5.47E+07	1.41E-04	0.09%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.28E+08	3.20E-03	2.12%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.74E+05	3.65E-04	0.24%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.20E+02	--	--	--	4.56E+06	1.36E-04	0.09%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	3.68E+10	3.62E-13	0.00%	1.82E+07	7.29E-04	0.48%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2.66E+04	--	--	--	6.48E+09	4.11E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	4.56E+06	4.82E-04	0.32%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	7.40E+01	--	--	--	4.56E+06	1.62E-05	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	6.04E+04	--	--	--	5.48E+08	1.10E-04	0.07%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2.80E+03	--	--	--	5.48E+08	5.11E-06	0.00%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.10E+02	--	--	--	2.74E+06	2.96E-04	0.20%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	4.56E+06	1.96E-02	12.95%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.12E+05	--	--	--	2.74E+08	4.09E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.97E-06**	**--**	**--**	**1.51E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.97E-06**	**--**	**--**	**--**	**--**
100-K-34_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.62E+03	4.99E+03	3.25E-07	100.00%	2.56E+05	6.34E-03	8.47%
100-K-34_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.34E+04	--	--	--	1.82E+08	2.93E-04	0.39%
100-K-34_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.12E+02	3.98E+09	1.03E-13	0.00%	1.82E+06	2.26E-04	0.30%
100-K-34_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.15E+03	--	--	--	1.37E+09	3.76E-06	0.01%
100-K-34_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	1.06E+09	1.09E-11	0.00%	2.74E+05	4.24E-02	56.60%
100-K-34_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.66E+04	--	--	--	3.65E+07	4.55E-04	0.61%
100-K-34_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.15E+05	--	--	--	1.28E+08	3.25E-03	4.34%
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.56E+06	1.40E-04	0.19%
100-K-34_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.36E+03	3.68E+10	2.27E-13	0.00%	1.82E+07	4.58E-04	0.61%
100-K-34_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	5.89E+03	--	--	--	6.48E+09	9.09E-07	0.00%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	4.56E+06	2.00E-04	0.27%
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.56E+04	--	--	--	5.48E+08	4.68E-05	0.06%
100-K-34_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	5.48E+08	8.77E-07	0.00%
100-K-34_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.90E+02	--	--	--	2.74E+06	1.79E-04	0.24%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	4.56E+06	2.07E-02	27.64%
100-K-34_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.67E+04	--	--	--	2.74E+08	2.07E-04	0.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.25E-07**	**--**	**--**	**7.49E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.25E-07**	**--**	**--**	**--**	**--**
100-K-36_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.44E+03	4.99E+03	4.89E-07	100.00%	2.56E+05	9.55E-03	17.95%
100-K-36_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.43E+04	--	--	--	1.82E+08	4.07E-04	0.77%
100-K-36_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.03E+02	3.98E+09	7.61E-14	0.00%	1.82E+06	1.66E-04	0.31%
100-K-36_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.01E+03	--	--	--	1.82E+08	5.53E-06	0.01%
100-K-36_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.73E+01	5.31E+09	1.46E-14	0.00%	8.33E+05	9.28E-05	0.17%
100-K-36_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8.31E+03	--	--	--	1.37E+09	6.07E-06	0.01%
100-K-36_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	1.06E+09	7.55E-12	0.00%	2.74E+05	2.93E-02	55.07%
100-K-36_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.46E+04	--	--	--	3.65E+07	4.00E-04	0.75%
100-K-36_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.28E+08	2.26E-03	4.24%
100-K-36_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.19E+02	--	--	--	4.56E+06	9.18E-05	0.17%
100-K-36_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.03E+04	3.68E+10	2.80E-13	0.00%	1.82E+07	5.64E-04	1.06%
100-K-36_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.89E+04	--	--	--	6.48E+09	2.92E-06	0.01%
100-K-36_Shallow	non-Rad	Silver	7440-22-4	ug/kg	3.57E+01	--	--	--	4.56E+06	7.82E-06	0.01%
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.94E-05	0.11%
100-K-36_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.52E+02	--	--	--	5.48E+08	8.26E-07	0.00%
100-K-36_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.61E+02	--	--	--	2.74E+06	1.68E-04	0.32%
100-K-36_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.55E+04	--	--	--	4.56E+06	9.97E-03	18.74%
100-K-36_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.28E+04	--	--	--	2.74E+08	1.56E-04	0.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.89E-07**	**--**	**--**	**5.32E-02**	**--**
100-K-36_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.90E-01	6.20E+03	3.07E-09	17.06%	--	--	--
100-K-36_Shallow	Rad	Uranium-238	U-238	pCi/g	1.60E-01	1.07E+03	1.49E-08	82.94%	--	--	--
Total Radiological Risk Estimate							**1.80E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.07E-07**	**--**	**--**	**--**	**--**
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.20E+02	--	--	--	3.65E+05	8.77E-04	1.28%
100-K-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.41E+03	4.99E+03	6.84E-07	100.00%	2.56E+05	1.33E-02	19.47%
100-K-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.27E+04	--	--	--	1.82E+08	3.98E-04	0.58%
100-K-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.50E+02	3.98E+09	6.28E-14	0.00%	1.82E+06	1.37E-04	0.20%
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	1.82E+08	9.21E-05	0.13%
100-K-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.20E+02	5.31E+09	2.26E-14	0.00%	8.33E+05	1.44E-04	0.21%
100-K-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.02E+04	--	--	--	1.37E+09	7.45E-06	0.01%
100-K-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.55E+03	1.06E+09	8.05E-12	0.00%	2.74E+05	3.12E-02	45.58%
100-K-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.50E+04	--	--	--	3.65E+07	4.11E-04	0.60%
100-K-4_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	1.03E+04	--	--	--	1.83E+06	5.62E-03	8.20%
100-K-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.13E+05	--	--	--	1.28E+08	2.45E-03	3.58%
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.56E+06	1.06E-04	0.15%
100-K-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	3.68E+10	2.90E-13	0.00%	1.82E+07	5.84E-04	0.85%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	4.56E+06	3.31E-04	0.48%
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.35E+04	--	--	--	5.48E+08	7.95E-05	0.12%
100-K-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.16E+02	--	--	--	5.48E+08	9.43E-07	0.00%
100-K-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.40E+02	--	--	--	2.74E+06	2.34E-04	0.34%
100-K-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.60E+04	--	--	--	4.56E+06	1.23E-02	17.91%
100-K-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.62E+04	--	--	--	2.74E+08	2.05E-04	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.84E-07**	**--**	**--**	**6.85E-02**	**--**
100-K-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.17E-01	9.82E+01	1.19E-07	60.63%	--	--	--
100-K-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	7.27E-01	6.20E+03	1.17E-08	5.98%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-4_Shallow	Rad	Uranium-238	U-238	pCi/g	7.04E-01	1.07E+03	6.56E-08	33.39%	--	--	--
Total Radiological Risk Estimate							**1.96E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.80E-07**	**--**	**--**	**--**	**--**
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	7.82E+00	--	--	--	4.18E+07	1.87E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.55E+01	--	--	--	2.09E+08	7.42E-08	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.96E+03	--	--	--	3.65E+05	5.37E-03	7.41%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	2.91E+03	1.80E-09	0.26%	1.37E+04	3.83E-04	0.53%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	2.91E+03	8.09E-10	0.12%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.75E+03	4.99E+03	5.52E-07	80.15%	2.56E+05	1.08E-02	14.87%
100-K-50, 1607-K2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.08E+04	--	--	--	1.82E+08	3.88E-04	0.54%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	1.34E+04	1.26E-08	1.83%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	1.34E+03	7.99E-08	11.60%	2.09E+05	5.11E-04	0.71%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	1.34E+04	1.35E-08	1.96%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	1.34E+05	2.03E-10	0.03%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.38E+03	3.98E+09	3.47E-13	0.00%	1.82E+06	7.58E-04	1.05%
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	1.82E+08	4.94E-05	0.07%
100-K-50, 1607-K2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.19E+04	--	--	--	1.37E+09	8.71E-06	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	1.34E+06	1.55E-10	0.02%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.51E+03	1.06E+09	8.01E-12	0.00%	2.74E+05	3.11E-02	42.90%
100-K-50, 1607-K2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.92E+04	--	--	--	3.65E+07	5.26E-04	0.73%
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	1.34E+03	2.25E-08	3.26%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	2.25E+02	--	--	--	2.79E+07	8.07E-06	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.28E+00	--	--	--	2.79E+07	2.25E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	4.11E+07	9.31E-12	0.00%	2.74E+06	1.40E-04	0.19%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	1.34E+04	5.25E-09	0.76%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.28E+08	3.16E-03	4.36%
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	2.74E+05	4.60E-04	0.64%
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.65E+02	--	--	--	4.56E+06	1.24E-04	0.17%
100-K-50, 1607-K2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.01E+04	3.68E+10	2.75E-13	0.00%	1.82E+07	5.54E-04	0.76%
100-K-50, 1607-K2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	2.18E+04	--	--	--	6.48E+09	3.36E-06	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2.23E+02	--	--	--	2.09E+07	1.07E-05	0.01%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	4.56E+06	2.17E-04	0.30%
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	7.85E+02	--	--	--	4.56E+06	1.72E-04	0.24%
100-K-50, 1607-K2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.01E+04	--	--	--	4.56E+06	1.76E-02	24.23%
100-K-50, 1607-K2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.37E+04	--	--	--	2.74E+08	1.96E-04	0.27%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.88E-07**	**--**	**--**	**7.24E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.88E-07**	**--**	**--**	**--**	**--**
100-K-53_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.84E+03	4.99E+03	1.97E-06	100.00%	2.56E+05	3.85E-02	37.50%
100-K-53_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.78E+04	--	--	--	1.82E+08	3.16E-04	0.31%
100-K-53_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.35E+02	3.98E+09	8.41E-14	0.00%	1.82E+06	1.84E-04	0.18%
100-K-53_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	5.31E+09	2.27E-14	0.00%	8.33E+05	1.45E-04	0.14%
100-K-53_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.04E+04	--	--	--	1.37E+09	7.57E-06	0.01%
100-K-53_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	1.06E+09	9.74E-12	0.00%	2.74E+05	3.78E-02	36.80%
100-K-53_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.82E+04	--	--	--	3.65E+07	7.73E-04	0.75%
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	4.11E+07	2.48E-12	0.00%	2.74E+06	3.73E-05	0.04%
100-K-53_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7.40E+03	--	--	--	1.83E+06	4.05E-03	3.95%
100-K-53_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.28E+08	2.73E-03	2.66%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	2.74E+05	2.11E-04	0.21%
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	8.69E+02	--	--	--	4.56E+06	1.90E-04	0.19%
100-K-53_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	3.68E+10	3.12E-13	0.00%	1.82E+07	6.28E-04	0.61%
100-K-53_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8.88E+03	--	--	--	6.48E+09	1.37E-06	0.00%
100-K-53_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	7.49E+02	--	--	--	4.56E+06	1.64E-04	0.16%
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	5.48E+08	5.36E-05	0.05%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-53_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.09E+02	--	--	--	5.48E+08	9.30E-07	0.00%
100-K-53_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.42E+02	--	--	--	2.74E+06	1.98E-04	0.19%
100-K-53_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.52E+04	--	--	--	4.56E+06	1.65E-02	16.06%
100-K-53_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.47E+04	--	--	--	2.74E+08	2.00E-04	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.97E-06**	**--**	**--**	**1.03E-01**	**--**
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.16E+00	9.82E+01	1.18E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**1.18E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.16E-06**	**--**	**--**	**--**	**--**
100-K-55:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	3.41E-01	9.82E+01	3.47E-07	33.39%	--	--	--
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	2.74E-02	5.72E+01	4.80E-08	4.61%	--	--	--
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	3.33E-01	6.39E+01	5.22E-07	50.15%	--	--	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	pCi/g	9.86E-02	8.00E+01	1.23E-07	11.85%	--	--	--
Total Radiological Risk Estimate							**1.04E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.04E-06**	**--**	**--**	**--**	**--**
100-K-55:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.84E-01	9.82E+01	2.89E-07	11.47%	--	--	--
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.86E-01	5.72E+01	3.25E-07	12.91%	--	--	--
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.03E+00	6.39E+01	1.62E-06	64.14%	--	--	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.31E-01	8.00E+01	2.89E-07	11.48%	--	--	--
Total Radiological Risk Estimate							**2.52E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.52E-06**	**--**	**--**	**--**	**--**
100-K-55:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	2.74E+06	8.45E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**8.45E-04**	**--**
100-K-55:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	6.12E-01	9.82E+01	6.23E-07	19.62%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.10E-01	5.72E+01	1.92E-07	6.06%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.30E+00	6.39E+01	2.04E-06	64.11%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.87E-01	8.00E+01	2.34E-07	7.36%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	3.66E-01	5.28E+03	6.93E-09	0.22%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	6.99E-01	6.20E+03	1.13E-08	0.36%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	7.77E-01	1.07E+03	7.24E-08	2.28%	--	--	--
Total Radiological Risk Estimate							**3.18E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.18E-06**	**--**	**--**	**--**	**--**
100-K-56:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.01E+00	9.82E+01	1.03E-06	15.85%	--	--	--
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.41E-01	5.72E+01	2.47E-07	3.80%	--	--	--
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	3.33E+00	6.39E+01	5.21E-06	80.34%	--	--	--
Total Radiological Risk Estimate							**6.49E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.49E-06**	**--**	**--**	**--**	**--**
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	4.11E+07	2.28E-11	100.00%	2.74E+06	3.42E-04	39.36%
100-K-56:1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.44E+03	--	--	--	2.74E+06	5.27E-04	60.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.28E-11**	**--**	**--**	**8.70E-04**	**--**
100-K-56:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.09E-01	9.82E+01	3.15E-07	5.32%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.49E-01	5.72E+01	2.61E-07	4.41%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	3.11E+00	6.39E+01	4.87E-06	82.32%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	3.27E-01	8.00E+01	4.09E-07	6.91%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	4.96E-01	5.28E+03	9.40E-09	0.16%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	4.54E-01	6.20E+03	7.33E-09	0.12%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	4.85E-01	1.07E+03	4.52E-08	0.76%	--	--	--
Total Radiological Risk Estimate							**5.92E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.92E-06**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	3.54E+02	--	--	--	3.65E+05	9.70E-04	1.43%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2.67E+03	4.99E+03	5.35E-07	100.00%	2.56E+05	1.04E-02	15.42%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	6.54E+04	--	--	--	1.82E+08	3.58E-04	0.53%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	2.86E+02	3.98E+09	7.18E-14	0.00%	1.82E+06	1.57E-04	0.23%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	1.82E+08	4.60E-05	0.07%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7.03E+03	--	--	--	1.37E+09	5.14E-06	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9.51E+03	1.06E+09	8.96E-12	0.00%	2.74E+05	3.47E-02	51.37%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	1.74E+04	--	--	--	3.65E+07	4.78E-04	0.71%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	4.11E+07	1.75E-12	0.00%	2.74E+06	2.62E-05	0.04%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Lithium	7439-93-2	ug/kg	5.63E+03	--	--	--	1.83E+06	3.08E-03	4.56%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.28E+08	2.75E-03	4.07%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	2.74E+05	2.48E-04	0.37%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	4.98E+02	--	--	--	4.56E+06	1.09E-04	0.16%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9.21E+03	3.68E+10	2.50E-13	0.00%	1.82E+07	5.04E-04	0.75%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	4.56E+06	4.00E-04	0.59%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	2.80E+04	--	--	--	5.48E+08	5.11E-05	0.08%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.79E+02	--	--	--	5.48E+08	8.75E-07	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Uranium	7440-61-1	ug/kg	4.48E+02	--	--	--	2.74E+06	1.64E-04	0.24%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	5.91E+04	--	--	--	4.56E+06	1.29E-02	19.13%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	4.69E+04	--	--	--	2.74E+08	1.71E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.35E-07**	**--**	**--**	**6.77E-02**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	8.35E+00	3.30E+05	2.53E-09	0.70%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	3.10E-01	9.82E+01	3.16E-07	87.48%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.12E-02	4.04E+03	2.77E-10	0.08%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	9.70E-01	5.28E+03	1.84E-08	5.09%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	1.46E-01	6.20E+03	2.36E-09	0.65%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	1.89E-02	3.01E+02	6.29E-09	1.74%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Uranium-238	U-238	pCi/g	1.65E-01	1.07E+03	1.53E-08	4.25%	--	--	--
Total Radiological Risk Estimate							**3.61E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.95E-07**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.34E+03	4.99E+03	4.69E-07	100.00%	2.56E+05	9.15E-03	15.60%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.66E+04	--	--	--	1.82E+08	3.65E-04	0.62%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	3.98E+09	7.98E-14	0.00%	1.82E+06	1.74E-04	0.30%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.94E+03	--	--	--	1.82E+08	1.07E-05	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	8.77E+01	5.31E+09	1.65E-14	0.00%	8.33E+05	1.05E-04	0.18%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6.91E+03	--	--	--	1.37E+09	5.05E-06	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.85E+03	1.06E+09	8.34E-12	0.00%	2.74E+05	3.23E-02	55.13%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.67E+04	--	--	--	3.65E+07	4.58E-04	0.78%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Lithium	7439-93-2	ug/kg	6.62E+03	--	--	--	1.83E+06	3.63E-03	6.19%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.18E+05	--	--	--	1.28E+08	2.49E-03	4.25%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.82E+02	--	--	--	4.56E+06	1.06E-04	0.18%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9.86E+03	3.68E+10	2.68E-13	0.00%	1.82E+07	5.40E-04	0.92%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.25E+04	--	--	--	6.48E+09	1.94E-06	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	2.70E+02	--	--	--	4.56E+06	5.92E-05	0.10%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.92E+01	--	--	--	4.56E+06	1.30E-05	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.97E+04	--	--	--	5.48E+08	5.43E-05	0.09%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	4.50E+02	--	--	--	5.48E+08	8.22E-07	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.18E+02	--	--	--	2.74E+06	1.89E-04	0.32%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	4.02E+04	--	--	--	4.56E+06	8.82E-03	15.04%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.02E+04	--	--	--	2.74E+08	1.47E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.69E-07**	**--**	**--**	**5.87E-02**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	2.34E-01	2.77E+03	8.45E-09	0.34%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	6.55E+01	3.30E+05	1.99E-08	0.81%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	1.68E+00	9.82E+01	1.71E-06	69.38%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.10E-01	6.39E+01	4.85E-07	19.70%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	8.00E+01	2.00E-07	8.11%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	pCi/g	3.00E-02	4.61E+03	6.50E-10	0.03%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.32E-01	4.04E+03	3.26E-09	0.13%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	7.90E-01	5.28E+03	1.50E-08	0.61%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	1.53E-01	6.20E+03	2.47E-09	0.10%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	1.46E-02	3.01E+02	4.86E-09	0.20%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	1.57E-01	1.07E+03	1.46E-08	0.59%	--	--	--
Total Radiological Risk Estimate							**2.46E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.93E-06**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	4.99E+03	5.87E-07	100.00%	2.56E+05	1.14E-02	14.79%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.33E+04	--	--	--	1.82E+08	4.01E-04	0.52%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	4.22E+02	3.98E+09	1.06E-13	0.00%	1.82E+06	2.31E-04	0.30%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	8.96E+02	--	--	--	1.82E+08	4.91E-06	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.21E+01	5.31E+09	1.73E-14	0.00%	8.33E+05	1.11E-04	0.14%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8.33E+03	--	--	--	1.37E+09	6.09E-06	0.01%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	1.06E+09	1.08E-11	0.00%	2.74E+05	4.17E-02	53.93%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.99E+04	--	--	--	3.65E+07	5.46E-04	0.71%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Lithium	7439-93-2	ug/kg	8.36E+03	--	--	--	1.83E+06	4.58E-03	5.92%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.76E+05	--	--	--	1.28E+08	2.95E-03	3.81%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	5.95E+02	--	--	--	4.56E+06	1.30E-04	0.17%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.09E+04	3.68E+10	2.97E-13	0.00%	1.82E+07	5.97E-04	0.77%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	6.22E+03	--	--	--	6.48E+09	9.59E-07	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	3.24E+02	--	--	--	4.56E+06	7.11E-05	0.09%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	7.52E+01	--	--	--	4.56E+06	1.65E-05	0.02%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.52E+04	--	--	--	5.48E+08	6.43E-05	0.08%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.94E+02	--	--	--	5.48E+08	1.08E-06	0.00%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	5.91E+02	--	--	--	2.74E+06	2.16E-04	0.28%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	6.43E+04	--	--	--	4.56E+06	1.41E-02	18.21%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	5.10E+04	--	--	--	2.74E+08	1.86E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.87E-07**	**--**	**--**	**7.74E-02**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	pCi/g	2.10E+00	2.77E+03	7.58E-08	0.45%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.39E+02	3.30E+05	4.22E-08	0.25%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.55E+01	9.82E+01	1.58E-05	94.41%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.30E-01	4.61E+03	4.99E-09	0.03%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.20E+00	4.04E+03	5.44E-08	0.33%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.10E+01	5.28E+03	2.08E-07	1.25%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	5.31E+00	1.02E+03	5.19E-07	3.11%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	1.80E-01	6.20E+03	2.91E-09	0.02%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-235	15117-96-1	pCi/g	2.20E-02	3.01E+02	7.32E-09	0.04%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.85E-01	1.07E+03	1.72E-08	0.10%	--	--	--
Total Radiological Risk Estimate							**1.67E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.73E-05**	**--**	**--**	**--**	**--**
100-K-6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.28E+03	4.99E+03	4.57E-07	100.00%	2.56E+05	8.92E-03	15.74%
100-K-6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.11E+04	--	--	--	1.82E+08	3.35E-04	0.59%
100-K-6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.39E+02	3.98E+09	8.51E-14	0.00%	1.82E+06	1.86E-04	0.33%
100-K-6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.14E+01	5.31E+09	1.53E-14	0.00%	8.33E+05	9.77E-05	0.17%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5.29E+03	--	--	--	1.37E+09	3.86E-06	0.01%
100-K-6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.31E+03	1.06E+09	7.82E-12	0.00%	2.74E+05	3.04E-02	53.55%
100-K-6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.57E+04	--	--	--	3.65E+07	4.30E-04	0.76%
100-K-6_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	7.30E+03	--	--	--	1.83E+06	4.00E-03	7.06%
100-K-6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.79E+05	--	--	--	1.28E+08	2.19E-03	3.86%
100-K-6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.70E+02	--	--	--	4.56E+06	5.92E-05	0.10%
100-K-6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	7.27E+03	3.68E+10	1.98E-13	0.00%	1.82E+07	3.98E-04	0.70%
100-K-6_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.81E+02	--	--	--	4.56E+06	6.16E-05	0.11%
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	5.48E+08	5.63E-05	0.10%
100-K-6_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.77E+02	--	--	--	5.48E+08	8.71E-07	0.00%
100-K-6_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.77E+02	--	--	--	2.74E+06	1.74E-04	0.31%
100-K-6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.23E+04	--	--	--	4.56E+06	9.27E-03	16.36%
100-K-6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.07E+04	--	--	--	2.74E+08	1.49E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.57E-07**	**--**	**--**	**5.67E-02**	**--**
100-K-6_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.50E-02	2.77E+03	1.98E-09	0.35%	--	--	--
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	3.48E+01	3.30E+05	1.06E-08	1.88%	--	--	--
100-K-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	5.10E-01	9.82E+01	5.19E-07	92.66%	--	--	--
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.20E-02	4.04E+03	1.04E-09	0.19%	--	--	--
100-K-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.60E-01	6.20E+03	2.58E-09	0.46%	--	--	--
100-K-6_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.90E-02	3.01E+02	6.32E-09	1.13%	--	--	--
100-K-6_Shallow	Rad	Uranium-238	U-238	pCi/g	2.00E-01	1.07E+03	1.86E-08	3.33%	--	--	--
Total Radiological Risk Estimate							**5.60E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.02E-06**	**--**	**--**	**--**	**--**
100-K-62_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.29E+03	4.99E+03	2.59E-07	100.00%	2.56E+05	5.05E-03	9.86%
100-K-62_Shallow	non-Rad	Barium	7440-39-3	ug/kg	5.05E+04	--	--	--	1.82E+08	2.77E-04	0.54%
100-K-62_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	2.28E+02	3.98E+09	5.72E-14	0.00%	1.82E+06	1.25E-04	0.24%
100-K-62_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	5.51E+01	5.31E+09	1.04E-14	0.00%	8.33E+05	6.61E-05	0.13%
100-K-62_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	3.95E+03	--	--	--	1.37E+09	2.89E-06	0.01%
100-K-62_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.37E+03	1.06E+09	7.88E-12	0.00%	2.74E+05	3.06E-02	59.72%
100-K-62_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.65E+07	4.08E-04	0.80%
100-K-62_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	2.90E+03	--	--	--	1.83E+06	1.59E-03	3.10%
100-K-62_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	2.61E+05	--	--	--	1.28E+08	2.04E-03	3.99%
100-K-62_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.03E+02	--	--	--	4.56E+06	6.64E-05	0.13%
100-K-62_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	5.97E+03	3.68E+10	1.62E-13	0.00%	1.82E+07	3.27E-04	0.64%
100-K-62_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	3.12E+02	--	--	--	4.56E+06	6.84E-05	0.13%
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.29E+04	--	--	--	5.48E+08	4.18E-05	0.08%
100-K-62_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.83E+02	--	--	--	5.48E+08	7.00E-07	0.00%
100-K-62_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	3.57E+02	--	--	--	2.74E+06	1.30E-04	0.25%
100-K-62_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.70E+04	--	--	--	4.56E+06	1.03E-02	20.12%
100-K-62_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	3.50E+04	--	--	--	2.74E+08	1.28E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.59E-07**	**--**	**--**	**5.12E-02**	**--**
100-K-62_Shallow	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	2.77E+03	6.13E-09	0.67%	--	--	--
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.02E+01	3.30E+05	6.13E-09	0.67%	--	--	--
100-K-62_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	8.40E-01	9.82E+01	8.55E-07	94.11%	--	--	--
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	4.61E+03	7.80E-10	0.09%	--	--	--
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-01	4.04E+03	4.95E-09	0.54%	--	--	--
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	7.60E-01	5.28E+03	1.44E-08	1.58%	--	--	--
100-K-62_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.20E-01	6.20E+03	1.94E-09	0.21%	--	--	--
100-K-62_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.30E-02	3.01E+02	4.32E-09	0.48%	--	--	--
100-K-62_Shallow	Rad	Uranium-238	U-238	pCi/g	1.60E-01	1.07E+03	1.49E-08	1.64%	--	--	--
Total Radiological Risk Estimate							**9.09E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.17E-06**	**--**	**--**	**--**	**--**
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.90E+02	--	--	--	3.65E+05	5.21E-04	0.82%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-63_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3.01E+03	4.99E+03	6.03E-07	100.00%	2.56E+05	1.18E-02	18.47%
100-K-63_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.92E+04	--	--	--	1.82E+08	3.79E-04	0.60%
100-K-63_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	3.98E+09	8.67E-14	0.00%	1.82E+06	1.89E-04	0.30%
100-K-63_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2.95E+03	--	--	--	1.82E+08	1.62E-05	0.03%
100-K-63_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	1.89E+02	5.31E+09	3.55E-14	0.00%	8.33E+05	2.26E-04	0.36%
100-K-63_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	1.11E+04	--	--	--	1.37E+09	8.07E-06	0.01%
100-K-63_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.15E+03	1.06E+09	8.61E-12	0.00%	2.74E+05	3.34E-02	52.45%
100-K-63_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.65E+07	5.28E-04	0.83%
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	4.11E+07	3.69E-12	0.00%	2.74E+06	5.54E-05	0.09%
100-K-63_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.28E+08	2.84E-03	4.45%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	2.74E+05	5.23E-05	0.08%
100-K-63_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.50E+02	--	--	--	4.56E+06	9.85E-05	0.15%
100-K-63_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	3.68E+10	3.62E-13	0.00%	1.82E+07	7.30E-04	1.15%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	4.56E+06	2.83E-04	0.44%
100-K-63_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	5.48E+01	--	--	--	4.56E+06	1.20E-05	0.02%
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.76E+04	--	--	--	5.48E+08	5.03E-05	0.08%
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	9.37E+02	--	--	--	5.48E+08	1.71E-06	0.00%
100-K-63_Shallow_1	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	2.74E+06	1.89E-04	0.30%
100-K-63_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	4.56E+06	1.21E-02	19.04%
100-K-63_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	5.87E+04	--	--	--	2.74E+08	2.14E-04	0.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.03E-07**	**--**	**--**	**6.37E-02**	**--**
100-K-63_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	3.11E-01	9.82E+01	3.16E-07	35.02%	--	--	--
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.30E-02	5.72E+01	4.02E-08	4.46%	--	--	--
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	1.94E-01	6.39E+01	3.03E-07	33.59%	--	--	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	8.00E+01	2.00E-07	22.15%	--	--	--
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	pCi/g	2.00E-01	5.87E+03	3.40E-09	0.38%	--	--	--
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	2.10E+00	5.28E+03	3.98E-08	4.41%	--	--	--
Total Radiological Risk Estimate							**9.03E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.51E-06**	**--**	**--**	**--**	**--**
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	3.16E+02	--	--	--	3.65E+05	8.66E-04	1.43%
100-K-63_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3.88E+03	4.99E+03	7.77E-07	100.00%	2.56E+05	1.52E-02	24.99%
100-K-63_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.83E+04	--	--	--	1.82E+08	4.29E-04	0.71%
100-K-63_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	3.98E+09	8.88E-14	0.00%	1.82E+06	1.94E-04	0.32%
100-K-63_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.02E+03	--	--	--	1.82E+08	1.11E-05	0.02%
100-K-63_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	1.78E+02	5.31E+09	3.35E-14	0.00%	8.33E+05	2.14E-04	0.35%
100-K-63_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	1.72E+04	--	--	--	1.37E+09	1.26E-05	0.02%
100-K-63_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	1.06E+09	7.37E-12	0.00%	2.74E+05	2.86E-02	47.13%
100-K-63_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.67E+04	--	--	--	3.65E+07	4.57E-04	0.75%
100-K-63_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.29E+05	--	--	--	1.28E+08	2.58E-03	4.24%
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	6.75E+02	--	--	--	4.56E+06	1.48E-04	0.24%
100-K-63_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.51E+04	3.68E+10	4.11E-13	0.00%	1.82E+07	8.28E-04	1.36%
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	4.56E+06	1.92E-04	0.32%
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	5.61E+04	--	--	--	5.48E+08	1.03E-04	0.17%
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.67E+02	--	--	--	5.48E+08	8.53E-07	0.00%
100-K-63_Shallow_2	non-Rad	Uranium	7440-61-1	ug/kg	6.90E+02	--	--	--	2.74E+06	2.52E-04	0.42%
100-K-63_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	4.74E+04	--	--	--	4.56E+06	1.04E-02	17.12%
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.01E+04	--	--	--	2.74E+08	2.56E-04	0.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.77E-07**	**--**	**--**	**6.07E-02**	**--**
100-K-63_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	4.12E-01	9.82E+01	4.20E-07	51.68%	--	--	--
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.10E-02	5.72E+01	7.17E-08	8.83%	--	--	--
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	9.10E-02	6.39E+01	1.43E-07	17.56%	--	--	--
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.40E-01	8.00E+01	1.75E-07	21.55%	--	--	--
100-K-63_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.62E-01	5.28E+03	3.07E-09	0.38%	--	--	--
Total Radiological Risk Estimate							**8.12E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.59E-06**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	5.70E+01	--	--	--	4.18E+07	1.36E-06	0.00%
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	6.20E+00	--	--	--	2.09E+08	2.96E-08	0.00%
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.11E+03	--	--	--	3.65E+05	3.04E-03	2.76%
100-K-77_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9.89E+03	4.99E+03	1.98E-06	99.37%	2.56E+05	3.87E-02	35.14%
100-K-77_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.40E+04	--	--	--	1.82E+08	4.60E-04	0.42%
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	1.34E+03	1.00E-08	0.50%	2.09E+05	6.43E-05	0.06%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	1.34E+04	1.15E-09	0.06%	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	1.34E+05	3.91E-11	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.10E+02	3.98E+09	1.03E-13	0.00%	1.82E+06	2.25E-04	0.20%
100-K-77_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	2.77E+02	5.31E+09	5.22E-14	0.00%	8.33E+05	3.32E-04	0.30%
100-K-77_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.63E+04	--	--	--	1.37E+09	1.19E-05	0.01%
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	1.34E+06	9.84E-12	0.00%	--	--	--
100-K-77_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.08E+04	1.06E+09	1.02E-11	0.00%	2.74E+05	3.95E-02	35.83%
100-K-77_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.89E+04	--	--	--	3.65E+07	5.18E-04	0.47%
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	3.03E+01	--	--	--	2.79E+07	1.09E-06	0.00%
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.80E+00	--	--	--	2.79E+07	2.44E-07	0.00%
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	4.11E+07	3.16E-12	0.00%	2.74E+06	4.75E-05	0.04%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	1.34E+04	1.28E-09	0.06%	--	--	--
100-K-77_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	1.22E+04	--	--	--	1.83E+06	6.69E-03	6.07%
100-K-77_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.28E+08	3.45E-03	3.13%
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.39E+03	--	--	--	4.56E+06	3.04E-04	0.28%
100-K-77_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	3.68E+10	3.65E-13	0.00%	1.82E+07	7.35E-04	0.67%
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.20E+01	--	--	--	2.09E+07	2.01E-06	0.00%
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	4.56E+06	2.03E-04	0.18%
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.09E+04	--	--	--	5.48E+08	7.47E-05	0.07%
100-K-77_Shallow	non-Rad	Tin	7440-31-5	ug/kg	2.16E+03	--	--	--	5.48E+08	3.95E-06	0.00%
100-K-77_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	7.71E+02	--	--	--	2.74E+06	2.82E-04	0.26%
100-K-77_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.99E+04	--	--	--	4.56E+06	1.53E-02	13.91%
100-K-77_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.82E+04	--	--	--	2.74E+08	2.13E-04	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.00E-06**	**--**	**--**	**1.10E-01**	**--**
100-K-77_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	4.70E-01	9.82E+01	4.78E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**4.78E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.47E-06**	**--**	**--**	**--**	**--**
100-K-78_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.08E+07	--	--	--	9.12E+08	1.18E-02	12.08%
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	3.91E+02	--	--	--	3.65E+05	1.07E-03	1.09%
100-K-78_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4.33E+03	4.99E+03	8.68E-07	100.00%	2.56E+05	1.69E-02	17.29%
100-K-78_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.53E+04	--	--	--	1.82E+08	4.67E-04	0.48%
100-K-78_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.57E+02	3.98E+09	8.96E-14	0.00%	1.82E+06	1.96E-04	0.20%
100-K-78_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.57E+03	--	--	--	1.82E+08	8.60E-06	0.01%
100-K-78_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	5.31E+09	2.56E-14	0.00%	8.33E+05	1.63E-04	0.17%
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.37E+09	2.19E-05	0.02%
100-K-78_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.11E+03	1.06E+09	5.75E-12	0.00%	2.74E+05	2.23E-02	22.78%
100-K-78_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.65E+07	5.34E-04	0.55%
100-K-78_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.96E+07	--	--	--	6.39E+08	3.07E-02	31.31%
100-K-78_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.88E+05	--	--	--	1.28E+08	2.26E-03	2.30%
100-K-78_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.52E+02	--	--	--	4.56E+06	9.91E-05	0.10%
100-K-78_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.48E+04	3.68E+10	4.03E-13	0.00%	1.82E+07	8.11E-04	0.83%
100-K-78_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.77E+03	--	--	--	2.74E+06	1.01E-03	1.03%
100-K-78_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.29E+04	--	--	--	4.56E+06	9.40E-03	9.59%
100-K-78_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.70E+04	--	--	--	2.74E+08	1.72E-04	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.68E-07**	**--**	**--**	**9.80E-02**	**--**
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.66E+00	3.30E+05	5.04E-10	0.05%	--	--	--
100-K-78_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.20E-01	9.82E+01	3.26E-07	32.76%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	7.30E-02	5.72E+01	1.28E-07	12.84%	--	--	--
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	2.70E-01	6.39E+01	4.23E-07	42.52%	--	--	--
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.24E+00	6.00E+05	1.21E-09	0.12%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	8.43E-01	6.20E+03	1.36E-08	1.37%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	4.80E-02	3.01E+02	1.60E-08	1.61%	--	--	--
100-K-78_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	9.32E-01	1.07E+03	8.68E-08	8.73%	--	--	--
Total Radiological Risk Estimate							**9.94E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.86E-06**	**--**	**--**	**--**	**--**
100-K-84_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.24E+06	--	--	--	9.12E+08	9.03E-03	7.17%
100-K-84_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6.39E+03	4.99E+03	1.28E-06	100.00%	2.56E+05	2.50E-02	19.84%
100-K-84_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.82E+08	3.62E-04	0.29%
100-K-84_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.55E+02	3.98E+09	1.39E-13	0.00%	1.82E+06	3.04E-04	0.24%
100-K-84_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.36E+03	--	--	--	1.82E+08	7.46E-06	0.01%
100-K-84_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	6.62E+01	5.31E+09	1.25E-14	0.00%	8.33E+05	7.95E-05	0.06%
100-K-84_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9.25E+03	--	--	--	1.37E+09	6.76E-06	0.01%
100-K-84_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.13E+03	1.06E+09	8.59E-12	0.00%	2.74E+05	3.33E-02	26.45%
100-K-84_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.42E+04	--	--	--	3.65E+07	6.63E-04	0.53%
100-K-84_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.49E+07	--	--	--	6.39E+08	3.90E-02	30.95%
100-K-84_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.39E+05	--	--	--	1.28E+08	2.66E-03	2.11%
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	2.74E+05	1.80E-03	1.43%
100-K-84_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.45E+02	--	--	--	4.56E+06	7.56E-05	0.06%
100-K-84_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	3.68E+10	2.93E-13	0.00%	1.82E+07	5.89E-04	0.47%
100-K-84_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	4.56E+06	1.29E-02	10.25%
100-K-84_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.22E+04	--	--	--	2.74E+08	1.91E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.28E-06**	**--**	**--**	**1.26E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.28E-06**	**--**	**--**	**--**	**--**
100-K-85_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	--	--	--	9.12E+08	8.38E-03	8.26%
100-K-85_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	100.00%	2.56E+05	1.10E-02	10.79%
100-K-85_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.67E+04	--	--	--	1.82E+08	3.11E-04	0.31%
100-K-85_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.30E+02	3.98E+09	5.77E-14	0.00%	1.82E+06	1.26E-04	0.12%
100-K-85_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.10E+03	--	--	--	1.82E+08	6.03E-06	0.01%
100-K-85_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.20E+01	5.31E+09	1.17E-14	0.00%	8.33E+05	7.44E-05	0.07%
100-K-85_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7.80E+03	--	--	--	1.37E+09	5.70E-06	0.01%
100-K-85_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.40E+03	1.06E+09	7.91E-12	0.00%	2.74E+05	3.07E-02	30.22%
100-K-85_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.81E+04	--	--	--	3.65E+07	4.96E-04	0.49%
100-K-85_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	--	--	--	6.39E+08	3.55E-02	35.00%
100-K-85_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.27E+05	--	--	--	1.28E+08	2.56E-03	2.52%
100-K-85_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	9.90E+00	--	--	--	2.74E+05	3.62E-05	0.04%
100-K-85_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.60E+02	--	--	--	4.56E+06	7.89E-05	0.08%
100-K-85_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.90E+03	3.68E+10	2.69E-13	0.00%	1.82E+07	5.42E-04	0.53%
100-K-85_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.28E+04	--	--	--	4.56E+06	1.16E-02	11.40%
100-K-85_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.65E+04	--	--	--	2.74E+08	1.70E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-07**	**--**	**--**	**1.02E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
100-K-86_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.78E+06	--	--	--	9.12E+08	1.07E-02	9.36%
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.70E+02	--	--	--	3.65E+05	1.29E-03	1.12%
100-K-86_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	98.47%	2.56E+05	1.10E-02	9.57%
100-K-86_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.61E+04	--	--	--	1.82E+08	4.17E-04	0.36%
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	1.34E+04	3.36E-10	0.06%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	1.34E+03	7.46E-09	1.31%	2.09E+05	4.78E-05	0.04%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	1.34E+04	8.96E-10	0.16%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-86_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.30E+02	3.98E+09	1.08E-13	0.00%	1.82E+06	2.36E-04	0.21%
100-K-86_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.82E+08	1.04E-05	0.01%
100-K-86_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	5.80E+01	5.31E+09	1.09E-14	0.00%	8.33E+05	6.96E-05	0.06%
100-K-86_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.37E+09	7.96E-06	0.01%
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	1.34E+06	1.27E-11	0.00%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.90E+03	1.06E+09	9.32E-12	0.00%	2.74E+05	3.62E-02	31.57%
100-K-86_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.85E+04	--	--	--	3.65E+07	5.07E-04	0.44%
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	3.00E+01	--	--	--	2.79E+07	1.08E-06	0.00%
100-K-86_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.38E+07	--	--	--	6.39E+08	3.73E-02	32.53%
100-K-86_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.99E+05	--	--	--	1.28E+08	3.13E-03	2.73%
100-K-86_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.56E+06	6.58E-05	0.06%
100-K-86_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	3.68E+10	2.86E-13	0.00%	1.82E+07	5.75E-04	0.50%
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.30E+01	--	--	--	2.09E+07	2.06E-06	0.00%
100-K-86_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.89E+04	--	--	--	4.56E+06	1.29E-02	11.27%
100-K-86_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.88E+04	--	--	--	2.74E+08	1.78E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.70E-07**	**--**	**--**	**1.15E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.70E-07**	**--**	**--**	**--**	**--**
100-K-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.35E+06	--	--	--	9.12E+08	9.15E-03	9.51%
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	8.90E+02	--	--	--	3.65E+05	2.44E-03	2.53%
100-K-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9.10E+03	4.99E+03	1.82E-06	100.00%	2.56E+05	3.56E-02	37.01%
100-K-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.03E+05	--	--	--	1.82E+08	5.64E-04	0.59%
100-K-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	2.10E+02	3.98E+09	5.27E-14	0.00%	1.82E+06	1.15E-04	0.12%
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	1.82E+08	5.21E-05	0.05%
100-K-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.54E+04	--	--	--	1.37E+09	1.13E-05	0.01%
100-K-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4.40E+03	1.06E+09	4.14E-12	0.00%	2.74E+05	1.61E-02	16.71%
100-K-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.90E+04	--	--	--	3.65E+07	5.21E-04	0.54%
100-K-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.34E+07	--	--	--	6.39E+08	2.10E-02	21.81%
100-K-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.58E+05	--	--	--	1.28E+08	2.02E-03	2.10%
100-K-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.20E+00	--	--	--	2.74E+05	2.63E-05	0.03%
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	9.80E+02	--	--	--	4.56E+06	2.15E-04	0.22%
100-K-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	3.68E+10	3.02E-13	0.00%	1.82E+07	6.08E-04	0.63%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	4.56E+06	2.63E-04	0.27%
100-K-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.36E+04	--	--	--	4.56E+06	7.36E-03	7.66%
100-K-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	5.21E+04	--	--	--	2.74E+08	1.90E-04	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.82E-06**	**--**	**--**	**9.62E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.82E-06**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	9.12E+08	1.14E-02	9.66%
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.34E+02	--	--	--	3.65E+05	1.19E-03	1.01%
100-K-89, 600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4.08E+03	4.99E+03	8.19E-07	95.66%	2.56E+05	1.60E-02	13.59%
100-K-89, 600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.82E+08	4.41E-04	0.38%
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	1.34E+04	3.13E-09	0.37%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	1.34E+03	2.91E-08	3.40%	2.09E+05	1.86E-04	0.16%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	1.34E+04	4.84E-09	0.57%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.86E+02	3.98E+09	1.72E-13	0.00%	1.82E+06	3.76E-04	0.32%
100-K-89, 600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2.12E+03	--	--	--	1.82E+08	1.16E-05	0.01%
100-K-89, 600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	8.76E+01	5.31E+09	1.65E-14	0.00%	8.33E+05	1.05E-04	0.09%
100-K-89, 600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.22E+04	--	--	--	1.37E+09	8.93E-06	0.01%
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	1.34E+06	3.49E-11	0.00%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.92E+03	1.06E+09	8.40E-12	0.00%	2.74E+05	3.26E-02	27.72%
100-K-89, 600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.59E+04	--	--	--	3.65E+07	4.35E-04	0.37%
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.79E+01	--	--	--	2.79E+07	3.15E-06	0.00%
100-K-89, 600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	--	--	--	6.39E+08	3.74E-02	31.84%
100-K-89, 600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.06E+05	--	--	--	1.28E+08	3.18E-03	2.71%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-89, 600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.70E+00	--	--	--	2.74E+05	2.08E-05	0.02%
100-K-89, 600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.70E+02	--	--	--	4.56E+06	5.92E-05	0.05%
100-K-89, 600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.15E+04	3.68E+10	3.13E-13	0.00%	1.82E+07	6.30E-04	0.54%
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.34E+01	--	--	--	2.09E+07	3.03E-06	0.00%
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	4.56E+06	1.96E-04	0.17%
100-K-89, 600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.01E+04	--	--	--	4.56E+06	1.32E-02	11.21%
100-K-89, 600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.75E+04	--	--	--	2.74E+08	1.74E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.56E-07**	**--**	**--**	**1.18E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.56E-07**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	--	--	--	9.12E+08	1.19E-02	6.76%
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	2.60E+01	--	--	--	2.09E+08	1.24E-07	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+03	--	--	--	3.65E+05	1.12E-02	6.36%
100-K-89, 600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1.54E+04	4.99E+03	3.09E-06	96.51%	2.56E+05	6.03E-02	34.10%
100-K-89, 600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.82E+08	4.63E-04	0.26%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	1.34E+04	1.42E-08	0.44%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	1.34E+03	7.46E-08	2.33%	2.09E+05	4.78E-04	0.27%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	1.34E+04	1.94E-08	0.61%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	7.10E+02	3.98E+09	1.78E-13	0.00%	1.82E+06	3.89E-04	0.22%
100-K-89, 600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.50E+03	--	--	--	1.82E+08	1.37E-05	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.30E+02	5.31E+09	2.45E-14	0.00%	8.33E+05	1.56E-04	0.09%
100-K-89, 600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.22E+04	--	--	--	1.37E+09	8.91E-06	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	1.34E+06	1.87E-10	0.01%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	1.06E+09	9.04E-12	0.00%	2.74E+05	3.51E-02	19.84%
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.95E+04	--	--	--	3.65E+07	8.08E-04	0.46%
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.30E+02	--	--	--	2.79E+07	1.90E-05	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	1.34E+04	3.14E-09	0.10%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	--	--	--	6.39E+08	3.85E-02	21.79%
100-K-89, 600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	4.10E+05	--	--	--	1.28E+08	3.21E-03	1.82%
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.74E+05	5.84E-05	0.03%
100-K-89, 600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.40E+02	--	--	--	4.56E+06	9.64E-05	0.05%
100-K-89, 600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.28E+04	3.68E+10	3.48E-13	0.00%	1.82E+07	7.01E-04	0.40%
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.40E+02	--	--	--	2.09E+07	2.10E-05	0.01%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	4.56E+06	1.95E-04	0.11%
100-K-89, 600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.76E+04	--	--	--	4.56E+06	1.26E-02	7.14%
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.24E+05	--	--	--	2.74E+08	4.53E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.20E-06**	**--**	**--**	**1.77E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.20E-06**	**--**	**--**	**--**	**--**
100-K-90_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.65E+06	--	--	--	9.12E+08	1.81E-03	10.20%
100-K-90_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.70E+04	--	--	--	1.82E+08	9.32E-05	0.53%
100-K-90_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.80E+01	3.98E+09	1.46E-14	0.93%	1.82E+06	3.18E-05	0.18%
100-K-90_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.40E+03	--	--	--	1.37E+09	1.02E-06	0.01%
100-K-90_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.60E+03	1.06E+09	1.51E-12	95.79%	2.74E+05	5.84E-03	32.98%
100-K-90_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.60E+03	--	--	--	3.65E+07	9.86E-05	0.56%
100-K-90_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	4.25E+06	--	--	--	6.39E+08	6.65E-03	37.55%
100-K-90_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.17E+04	--	--	--	1.28E+08	4.83E-04	2.73%
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	2.74E+05	6.21E-05	0.35%
100-K-90_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.50E+02	--	--	--	4.56E+06	7.67E-05	0.43%
100-K-90_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.90E+03	3.68E+10	5.17E-14	3.29%	1.82E+07	1.04E-04	0.59%
100-K-90_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	1.10E+04	--	--	--	4.56E+06	2.41E-03	13.61%
100-K-90_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.41E+04	--	--	--	2.74E+08	5.15E-05	0.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.57E-12**	**--**	**--**	**1.77E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.57E-12**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-91_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	9.12E+08	8.89E-03	9.66%
100-K-91_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.30E+03	4.99E+03	4.61E-07	100.00%	2.56E+05	9.00E-03	9.78%
100-K-91_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.21E+04	--	--	--	1.82E+08	3.40E-04	0.37%
100-K-91_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.20E+02	3.98E+09	8.03E-14	0.00%	1.82E+06	1.75E-04	0.19%
100-K-91_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	1.82E+08	1.10E-05	0.01%
100-K-91_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.80E+03	--	--	--	1.37E+09	7.16E-06	0.01%
100-K-91_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6.80E+03	1.06E+09	6.40E-12	0.00%	2.74E+05	2.48E-02	26.99%
100-K-91_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.35E+04	--	--	--	3.65E+07	3.70E-04	0.40%
100-K-91_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	--	--	--	6.39E+08	2.72E-02	29.60%
100-K-91_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.28E+08	2.28E-03	2.48%
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	2.74E+05	9.86E-03	10.72%
100-K-91_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9.60E+03	3.68E+10	2.61E-13	0.00%	1.82E+07	5.26E-04	0.57%
100-K-91_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	3.68E+04	--	--	--	4.56E+06	8.07E-03	8.77%
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.13E+05	--	--	--	2.74E+08	4.13E-04	0.45%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.61E-07**	**--**	**--**	**9.20E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.61E-07**	**--**	**--**	**--**	**--**
100-K-92_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.86E+06	--	--	--	9.12E+08	9.71E-03	9.57%
100-K-92_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.90E+03	4.99E+03	5.82E-07	99.97%	2.56E+05	1.13E-02	11.18%
100-K-92_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.09E+04	--	--	--	1.82E+08	3.89E-04	0.38%
100-K-92_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	3.90E+02	3.98E+09	9.79E-14	0.00%	1.82E+06	2.14E-04	0.21%
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	4.52E+05	1.68E-10	0.03%	1.47E+07	5.15E-06	0.01%
100-K-92_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.30E+03	--	--	--	1.82E+08	1.26E-05	0.01%
100-K-92_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.40E+02	5.31E+09	2.64E-14	0.00%	8.33E+05	1.68E-04	0.17%
100-K-92_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9.60E+03	--	--	--	1.37E+09	7.01E-06	0.01%
100-K-92_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8.80E+03	1.06E+09	8.29E-12	0.00%	2.74E+05	3.21E-02	31.67%
100-K-92_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.65E+07	5.34E-04	0.53%
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	4.11E+07	5.26E-12	0.00%	2.74E+06	7.89E-05	0.08%
100-K-92_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.09E+07	--	--	--	6.39E+08	3.27E-02	32.24%
100-K-92_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.62E+05	--	--	--	1.28E+08	2.84E-03	2.79%
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1.70E+03	--	--	--	4.56E+06	3.73E-04	0.37%
100-K-92_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.12E+04	3.68E+10	3.05E-13	0.00%	1.82E+07	6.14E-04	0.60%
100-K-92_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.64E+04	--	--	--	4.56E+06	1.02E-02	10.02%
100-K-92_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	4.71E+04	--	--	--	2.74E+08	1.72E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.82E-07**	**--**	**--**	**1.01E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.82E-07**	**--**	**--**	**--**	**--**
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.91E+01	--	--	--	4.18E+07	4.56E-07	0.31%
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	1.34E+04	4.05E-09	13.74%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	1.34E+03	2.01E-08	68.33%	2.09E+05	1.29E-04	88.29%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	1.34E+04	3.39E-09	11.49%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	1.34E+05	1.31E-10	0.44%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	1.34E+06	4.38E-11	0.15%	--	--	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1.19E+02	--	--	--	2.79E+07	4.27E-06	2.92%
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	8.90E+00	--	--	--	2.79E+07	3.19E-07	0.22%
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	1.34E+04	1.50E-09	5.09%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	7.11E+04	2.25E-10	0.76%	2.26E+06	7.08E-06	4.85%
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1.04E+02	--	--	--	2.09E+07	4.99E-06	3.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.95E-08**	**--**	**--**	**1.46E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.95E-08**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.37E+09	9.22E-06	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**9.22E-06**	**--**
116-K-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	2.78E-01	9.82E+01	2.83E-07	40.41%	--	--	--
116-K-1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	2.57E-01	6.39E+01	4.02E-07	57.46%	--	--	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	7.89E-01	5.28E+03	1.50E-08	2.14%	--	--	--
Total Radiological Risk Estimate							**7.00E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.00E-07**	**--**	**--**	**--**	**--**
116-K-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.37E+04	--	--	--	1.37E+09	1.00E-05	9.54%
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	4.11E+07	6.33E-12	100.00%	2.74E+06	9.50E-05	90.46%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.33E-12**	**--**	**--**	**1.05E-04**	**--**
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.24E+00	9.82E+01	1.26E-06	73.61%	--	--	--
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	5.72E+01	6.65E-08	3.88%	--	--	--
116-K-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	6.39E+01	3.53E-07	20.59%	--	--	--
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	1.74E+00	5.28E+03	3.31E-08	1.93%	--	--	--
Total Radiological Risk Estimate							**1.71E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.71E-06**	**--**	**--**	**--**	**--**
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	4.11E+07	7.10E-12	100.00%	2.74E+06	1.07E-04	12.59%
116-K-2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.03E+03	--	--	--	2.74E+06	7.40E-04	87.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.10E-12**	**--**	**--**	**8.47E-04**	**--**
116-K-2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	9.37E-02	9.82E+01	9.54E-08	20.39%	--	--	--
116-K-2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.91E-01	6.39E+01	2.98E-07	63.78%	--	--	--
116-K-2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	6.59E-01	6.20E+03	1.06E-08	2.27%	--	--	--
116-K-2_Overburden	Rad	Uranium-238	U-238	pCi/g	6.81E-01	1.07E+03	6.34E-08	13.56%	--	--	--
Total Radiological Risk Estimate							**4.68E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.68E-07**	**--**	**--**	**--**	**--**
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	4.11E+07	1.63E-11	100.00%	2.74E+06	2.45E-04	26.88%
116-K-2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.82E+03	--	--	--	2.74E+06	6.66E-04	73.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.63E-11**	**--**	**--**	**9.11E-04**	**--**
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	2.98E+00	3.30E+05	9.04E-10	0.07%	--	--	--
116-K-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	6.31E-01	9.82E+01	6.42E-07	51.06%	--	--	--
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.46E-01	6.39E+01	5.42E-07	43.08%	--	--	--
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	pCi/g	7.83E+00	6.00E+05	1.31E-09	0.10%	--	--	--
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.94E-01	5.28E+03	3.68E-09	0.29%	--	--	--
116-K-2_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	6.68E-01	6.20E+03	1.08E-08	0.86%	--	--	--
116-K-2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	6.12E-01	1.07E+03	5.70E-08	4.54%	--	--	--
Total Radiological Risk Estimate							**1.26E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.26E-06**	**--**	**--**	**--**	**--**
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	4.11E+07	6.09E-12	100.00%	2.74E+06	9.14E-05	11.18%
116-K-2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.99E+03	--	--	--	2.74E+06	7.26E-04	88.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.09E-12**	**--**	**--**	**8.18E-04**	**--**
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.00E+00	9.82E+01	2.04E-06	59.94%	--	--	--
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	6.84E-01	6.39E+01	1.07E-06	31.47%	--	--	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.72E-01	8.00E+01	2.15E-07	6.31%	--	--	--
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	5.03E+00	6.00E+05	8.39E-10	0.02%	--	--	--
116-K-2_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.46E-01	5.28E+03	2.76E-09	0.08%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	7.28E-01	6.20E+03	1.18E-08	0.35%	--	--	--
116-K-2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	6.68E-01	1.07E+03	6.22E-08	1.83%	--	--	--
Total Radiological Risk Estimate							**3.40E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.40E-06**	**--**	**--**	**--**	**--**
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	4.11E+07	2.95E-11	100.00%	2.74E+06	4.42E-04	42.18%
116-KE-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.66E+03	--	--	--	2.74E+06	6.06E-04	57.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.95E-11**	**--**	**--**	**1.05E-03**	**--**
116-KE-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.22E-01	9.82E+01	2.25E-07	12.77%	--	--	--
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	8.60E-02	5.72E+01	1.50E-07	8.52%	--	--	--
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	6.91E-01	6.39E+01	1.08E-06	61.27%	--	--	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	1.88E-01	8.00E+01	2.35E-07	13.30%	--	--	--
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.99E+00	6.00E+05	8.33E-10	0.05%	--	--	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	2.05E-01	5.28E+03	3.89E-09	0.22%	--	--	--
116-KE-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	6.14E-01	6.20E+03	9.91E-09	0.56%	--	--	--
116-KE-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	2.00E-02	3.01E+02	6.66E-09	0.38%	--	--	--
116-KE-4_Shallow	Rad	Uranium-238	U-238	pCi/g	5.57E-01	1.07E+03	5.19E-08	2.94%	--	--	--
Total Radiological Risk Estimate							**1.77E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.77E-06**	**--**	**--**	**--**	**--**
116-KE-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.99E+03	7.42E-07	100.00%	2.56E+05	1.45E-02	91.41%
116-KE-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.00E+05	--	--	--	1.82E+08	5.48E-04	3.46%
116-KE-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.95E+02	5.31E+09	3.67E-14	0.00%	8.33E+05	2.34E-04	1.48%
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.37E+09	2.19E-05	0.14%
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	9.30E+08	6.35E-05	0.40%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	4.11E+07	8.03E-12	0.00%	2.74E+06	1.21E-04	0.76%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	2.74E+05	3.73E-04	2.35%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.42E-07**	**--**	**--**	**1.58E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.42E-07**	**--**	**--**	**--**	**--**
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	4.11E+07	1.32E-11	100.00%	2.74E+06	1.98E-04	22.01%
116-KW-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.92E+03	--	--	--	2.74E+06	7.03E-04	77.99%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.32E-11**	**--**	**--**	**9.01E-04**	**--**
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.32E-01	2.77E+03	1.92E-08	0.60%	--	--	--
116-KW-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.81E-01	9.82E+01	1.84E-07	5.76%	--	--	--
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.02E-01	5.72E+01	1.78E-07	5.57%	--	--	--
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.52E+00	6.39E+01	2.38E-06	74.39%	--	--	--
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.65E-01	8.00E+01	3.31E-07	10.35%	--	--	--
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	9.18E-01	4.04E+03	2.27E-08	0.71%	--	--	--
116-KW-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	6.56E-01	6.20E+03	1.06E-08	0.33%	--	--	--
116-KW-3_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	3.90E-02	3.01E+02	1.30E-08	0.41%	--	--	--
116-KW-3_Shallow	Rad	Uranium-238	U-238	pCi/g	6.46E-01	1.07E+03	6.02E-08	1.88%	--	--	--
Total Radiological Risk Estimate							**3.19E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.19E-06**	**--**	**--**	**--**	**--**
116-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.60E+03	4.99E+03	5.21E-07	100.00%	2.56E+05	1.02E-02	96.02%
116-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	5.93E+04	--	--	--	1.82E+08	3.25E-04	3.07%
116-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.21E+04	--	--	--	1.37E+09	8.84E-06	0.08%
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	4.11E+07	5.84E-12	0.00%	2.74E+06	8.77E-05	0.83%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.21E-07**	**--**	**--**	**1.06E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.21E-07**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_Overburden_12	non-Rad	Aluminum	7429-90-5	ug/kg	9.09E+06	--	--	--	9.12E+08	9.96E-03	8.39%
118-K-1_Overburden_12	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.99E+03	6.22E-07	100.00%	2.56E+05	1.21E-02	10.21%
118-K-1_Overburden_12	non-Rad	Barium	7440-39-3	ug/kg	7.20E+04	--	--	--	1.82E+08	3.94E-04	0.33%
118-K-1_Overburden_12	non-Rad	Beryllium	7440-41-7	ug/kg	3.53E+02	3.98E+09	8.86E-14	0.00%	1.82E+06	1.93E-04	0.16%
118-K-1_Overburden_12	non-Rad	Boron	7440-42-8	ug/kg	1.69E+03	--	--	--	1.82E+08	9.25E-06	0.01%
118-K-1_Overburden_12	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	5.31E+09	2.10E-14	0.00%	8.33E+05	1.34E-04	0.11%
118-K-1_Overburden_12	non-Rad	Chromium	7440-47-3	ug/kg	1.06E+04	--	--	--	1.37E+09	7.74E-06	0.01%
118-K-1_Overburden_12	non-Rad	Cobalt	7440-48-4	ug/kg	8.72E+03	1.06E+09	8.21E-12	0.00%	2.74E+05	3.18E-02	26.80%
118-K-1_Overburden_12	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.65E+07	4.85E-04	0.41%
118-K-1_Overburden_12	non-Rad	Iron	7439-89-6	ug/kg	2.78E+07	--	--	--	6.39E+08	4.35E-02	36.59%
118-K-1_Overburden_12	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.28E+08	3.07E-03	2.59%
118-K-1_Overburden_12	non-Rad	Molybdenum	7439-98-7	ug/kg	4.66E+02	--	--	--	4.56E+06	1.02E-04	0.09%
118-K-1_Overburden_12	non-Rad	Nickel	7440-02-0	ug/kg	9.88E+03	3.68E+10	2.69E-13	0.00%	1.82E+07	5.41E-04	0.46%
118-K-1_Overburden_12	non-Rad	Vanadium	7440-62-2	ug/kg	7.43E+04	--	--	--	4.56E+06	1.63E-02	13.70%
118-K-1_Overburden_12	non-Rad	Zinc	7440-66-6	ug/kg	5.10E+04	--	--	--	2.74E+08	1.86E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.22E-07**	**--**	**--**	**1.19E-01**	**--**
118-K-1_Overburden_12	Rad	Cesium-137	10045-97-3	pCi/g	1.13E-01	9.82E+01	1.15E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**1.15E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.37E-07**	**--**	**--**	**--**	**--**
118-K-1_Overburden_13	non-Rad	Aluminum	7429-90-5	ug/kg	9.44E+06	--	--	--	9.12E+08	1.03E-02	9.76%
118-K-1_Overburden_13	non-Rad	Arsenic	7440-38-2	ug/kg	2.76E+03	4.99E+03	5.53E-07	100.00%	2.56E+05	1.08E-02	10.19%
118-K-1_Overburden_13	non-Rad	Barium	7440-39-3	ug/kg	7.05E+04	--	--	--	1.82E+08	3.86E-04	0.36%
118-K-1_Overburden_13	non-Rad	Beryllium	7440-41-7	ug/kg	3.43E+02	3.98E+09	8.61E-14	0.00%	1.82E+06	1.88E-04	0.18%
118-K-1_Overburden_13	non-Rad	Boron	7440-42-8	ug/kg	1.68E+03	--	--	--	1.82E+08	9.21E-06	0.01%
118-K-1_Overburden_13	non-Rad	Cadmium	7440-43-9	ug/kg	1.12E+02	5.31E+09	2.11E-14	0.00%	8.33E+05	1.34E-04	0.13%
118-K-1_Overburden_13	non-Rad	Chromium	7440-47-3	ug/kg	1.06E+04	--	--	--	1.37E+09	7.74E-06	0.01%
118-K-1_Overburden_13	non-Rad	Cobalt	7440-48-4	ug/kg	7.38E+03	1.06E+09	6.95E-12	0.00%	2.74E+05	2.70E-02	25.43%
118-K-1_Overburden_13	non-Rad	Copper	7440-50-8	ug/kg	1.51E+04	--	--	--	3.65E+07	4.14E-04	0.39%
118-K-1_Overburden_13	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	--	--	--	6.39E+08	3.88E-02	36.63%
118-K-1_Overburden_13	non-Rad	Manganese	7439-96-5	ug/kg	3.73E+05	--	--	--	1.28E+08	2.92E-03	2.76%
118-K-1_Overburden_13	non-Rad	Molybdenum	7439-98-7	ug/kg	4.24E+02	--	--	--	4.56E+06	9.29E-05	0.09%
118-K-1_Overburden_13	non-Rad	Nickel	7440-02-0	ug/kg	1.05E+04	3.68E+10	2.86E-13	0.00%	1.82E+07	5.75E-04	0.54%
118-K-1_Overburden_13	non-Rad	Vanadium	7440-62-2	ug/kg	6.46E+04	--	--	--	4.56E+06	1.42E-02	13.36%
118-K-1_Overburden_13	non-Rad	Zinc	7440-66-6	ug/kg	4.95E+04	--	--	--	2.74E+08	1.81E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.53E-07**	**--**	**--**	**1.06E-01**	**--**
118-K-1_Overburden_13	Rad	Cesium-137	10045-97-3	pCi/g	8.40E-02	9.82E+01	8.55E-08	100.00%	--	--	--
Total Radiological Risk Estimate							**8.55E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.39E-07**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--	--	--	9.12E+08	8.89E-03	7.64%
118-K-1_P1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	100.00%	2.56E+05	1.10E-02	9.42%
118-K-1_P1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	6.15E+04	--	--	--	1.82E+08	3.37E-04	0.29%
118-K-1_P1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	6.00E+02	3.98E+09	1.51E-13	0.00%	1.82E+06	3.29E-04	0.28%
118-K-1_P1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	1.82E+08	7.12E-06	0.01%
118-K-1_P1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	5.31E+09	3.77E-14	0.00%	8.33E+05	2.40E-04	0.21%
118-K-1_P1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	1.10E+04	--	--	--	1.37E+09	8.04E-06	0.01%
118-K-1_P1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8.30E+03	1.06E+09	7.82E-12	0.00%	2.74E+05	3.03E-02	26.07%
118-K-1_P1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.79E+04	--	--	--	3.65E+07	4.90E-04	0.42%
118-K-1_P1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.86E+07	--	--	--	6.39E+08	4.48E-02	38.50%
118-K-1_P1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	3.66E+05	--	--	--	1.28E+08	2.87E-03	2.47%
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.56E+06	1.29E-04	0.11%
118-K-1_P1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	3.68E+10	3.16E-13	0.00%	1.82E+07	6.36E-04	0.55%
118-K-1_P1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	7.35E+04	--	--	--	4.56E+06	1.61E-02	13.86%
118-K-1_P1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	5.60E+04	--	--	--	2.74E+08	2.05E-04	0.18%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-07**	**--**	**--**	**1.16E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.68E+06	--	--	--	9.12E+08	9.51E-03	7.42%
118-K-1_P1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4.29E+03	4.99E+03	8.60E-07	100.00%	2.56E+05	1.68E-02	13.08%
118-K-1_P1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	7.45E+04	--	--	--	1.82E+08	4.08E-04	0.32%
118-K-1_P1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	3.88E+02	3.98E+09	9.74E-14	0.00%	1.82E+06	2.13E-04	0.17%
118-K-1_P1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2.60E+03	--	--	--	1.82E+08	1.42E-05	0.01%
118-K-1_P1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	2.88E+02	5.31E+09	5.42E-14	0.00%	8.33E+05	3.46E-04	0.27%
118-K-1_P1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	1.28E+04	--	--	--	1.37E+09	9.35E-06	0.01%
118-K-1_P1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9.97E+03	1.06E+09	9.39E-12	0.00%	2.74E+05	3.64E-02	28.41%
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.65E+07	6.10E-04	0.48%
118-K-1_P1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	--	--	--	6.39E+08	4.39E-02	34.26%
118-K-1_P1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.28E+08	3.05E-03	2.38%
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	7.76E+02	--	--	--	4.56E+06	1.70E-04	0.13%
118-K-1_P1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	1.32E+04	3.68E+10	3.59E-13	0.00%	1.82E+07	7.23E-04	0.56%
118-K-1_P1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	4.56E+06	1.58E-02	12.29%
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.54E+04	--	--	--	2.74E+08	2.75E-04	0.21%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.60E-07**	**--**	**--**	**1.28E-01**	**--**
118-K-1_P1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.84E-01	9.82E+01	1.87E-07	26.72%	--	--	--
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	3.28E-01	6.39E+01	5.14E-07	73.28%	--	--	--
Total Radiological Risk Estimate							**7.01E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.56E-06**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	8.17E+06	--	--	--	9.12E+08	8.95E-03	6.70%
118-K-1_P1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.82E+03	4.99E+03	5.65E-07	100.00%	2.56E+05	1.10E-02	8.25%
118-K-1_P1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.61E+04	--	--	--	1.82E+08	3.62E-04	0.27%
118-K-1_P1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	3.98E+09	1.76E-13	0.00%	1.82E+06	3.84E-04	0.29%
118-K-1_P1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.43E+03	--	--	--	1.82E+08	7.81E-06	0.01%
118-K-1_P1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	5.31E+09	3.77E-14	0.00%	8.33E+05	2.40E-04	0.18%
118-K-1_P1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	1.12E+04	--	--	--	1.37E+09	8.16E-06	0.01%
118-K-1_P1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	1.06E+09	9.23E-12	0.00%	2.74E+05	3.58E-02	26.78%
118-K-1_P1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.69E+04	--	--	--	3.65E+07	4.63E-04	0.35%
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	3.36E+07	--	--	--	6.39E+08	5.26E-02	39.34%
118-K-1_P1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.91E+05	--	--	--	1.28E+08	3.06E-03	2.29%
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.56E+06	1.29E-04	0.10%
118-K-1_P1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	3.68E+10	2.99E-13	0.00%	1.82E+07	6.03E-04	0.45%
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	4.56E+06	1.98E-02	14.84%
118-K-1_P1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	6.07E+04	--	--	--	2.74E+08	2.22E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.65E-07**	**--**	**--**	**1.34E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.65E-07**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.03E+07	--	--	--	9.12E+08	1.13E-02	9.19%
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	ug/kg	4.00E+02	--	--	--	3.65E+05	1.10E-03	0.89%
118-K-1_P1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5.30E+03	4.99E+03	1.06E-06	100.00%	2.56E+05	2.07E-02	16.89%
118-K-1_P1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	8.81E+04	--	--	--	1.82E+08	4.83E-04	0.39%
118-K-1_P1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	7.25E+02	3.98E+09	1.82E-13	0.00%	1.82E+06	3.97E-04	0.32%
118-K-1_P1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	1.82E+08	1.32E-05	0.01%
118-K-1_P1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	3.37E+02	5.31E+09	6.34E-14	0.00%	8.33E+05	4.04E-04	0.33%
118-K-1_P1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	1.45E+04	--	--	--	1.37E+09	1.06E-05	0.01%
118-K-1_P1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.92E+03	1.06E+09	7.46E-12	0.00%	2.74E+05	2.89E-02	23.57%
118-K-1_P1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	1.96E+04	--	--	--	3.65E+07	5.38E-04	0.44%
118-K-1_P1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.57E+07	--	--	--	6.39E+08	4.02E-02	32.75%
118-K-1_P1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	4.00E+05	--	--	--	1.28E+08	3.14E-03	2.55%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+01	--	--	--	2.74E+05	3.65E-05	0.03%
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	7.46E+02	--	--	--	4.56E+06	1.63E-04	0.13%
118-K-1_P1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	1.34E+04	3.68E+10	3.64E-13	0.00%	1.82E+07	7.32E-04	0.60%
118-K-1_P1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	4.56E+06	1.44E-02	11.73%
118-K-1_P1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.74E+08	2.05E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.06E-06**	**--**	**--**	**1.23E-01**	**--**
118-K-1_P1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	3.23E-01	9.82E+01	3.28E-07	51.13%	--	--	--
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E-01	6.39E+01	2.09E-07	32.50%	--	--	--
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	pCi/g	5.55E+00	5.28E+03	1.05E-07	16.37%	--	--	--
Total Radiological Risk Estimate							**6.42E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.71E-06**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	9.57E+06	--	--	--	9.12E+08	1.05E-02	8.03%
118-K-1_P1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3.71E+03	4.99E+03	7.44E-07	100.00%	2.56E+05	1.45E-02	11.11%
118-K-1_P1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.28E+04	--	--	--	1.82E+08	3.99E-04	0.31%
118-K-1_P1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	7.00E+02	3.98E+09	1.76E-13	0.00%	1.82E+06	3.84E-04	0.29%
118-K-1_P1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.90E+03	--	--	--	1.82E+08	1.04E-05	0.01%
118-K-1_P1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	5.31E+09	3.77E-14	0.00%	8.33E+05	2.40E-04	0.18%
118-K-1_P1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	1.28E+04	--	--	--	1.37E+09	9.35E-06	0.01%
118-K-1_P1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	1.03E+04	1.06E+09	9.67E-12	0.00%	2.74E+05	3.75E-02	28.75%
118-K-1_P1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	1.94E+04	--	--	--	3.65E+07	5.32E-04	0.41%
118-K-1_P1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	--	--	--	6.39E+08	4.49E-02	34.41%
118-K-1_P1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	4.16E+05	--	--	--	1.28E+08	3.26E-03	2.50%
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	8.20E+05	7.32E-12	0.00%	5.03E+06	1.19E-06	0.00%
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.56E+06	1.32E-04	0.10%
118-K-1_P1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	1.35E+04	3.68E+10	3.67E-13	0.00%	1.82E+07	7.39E-04	0.57%
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	7.74E+04	--	--	--	6.48E+09	1.20E-05	0.01%
118-K-1_P1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.36E+03	--	--	--	2.74E+06	8.60E-04	0.66%
118-K-1_P1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.44E+04	--	--	--	4.56E+06	1.63E-02	12.49%
118-K-1_P1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	5.81E+04	--	--	--	2.74E+08	2.12E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.44E-07**	**--**	**--**	**1.31E-01**	**--**
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.52E+00	9.82E+01	2.57E-06	91.06%	--	--	--
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	pCi/g	8.20E-02	5.72E+01	1.43E-07	5.09%	--	--	--
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.30E-02	4.04E+03	1.81E-09	0.06%	--	--	--
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	pCi/g	8.60E-01	5.28E+03	1.63E-08	0.58%	--	--	--
118-K-1_P1_Shallow_5	Rad	Uranium-233/234	U-233/234	pCi/g	1.03E+00	6.20E+03	1.65E-08	0.59%	--	--	--
118-K-1_P1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	7.91E-01	1.07E+03	7.37E-08	2.62%	--	--	--
Total Radiological Risk Estimate							**2.82E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.56E-06**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.76E+06	--	--	--	9.12E+08	9.60E-03	7.39%
118-K-1_P1_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	4.80E+03	4.99E+03	9.63E-07	100.00%	2.56E+05	1.88E-02	14.47%
118-K-1_P1_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	6.86E+04	--	--	--	1.82E+08	3.76E-04	0.29%
118-K-1_P1_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	4.00E+02	3.98E+09	1.00E-13	0.00%	1.82E+06	2.19E-04	0.17%
118-K-1_P1_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	1.30E+03	--	--	--	1.82E+08	7.12E-06	0.01%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	2.00E+02	5.31E+09	3.77E-14	0.00%	8.33E+05	2.40E-04	0.18%
118-K-1_P1_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	1.05E+04	--	--	--	1.37E+09	7.67E-06	0.01%
118-K-1_P1_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9.80E+03	1.06E+09	9.23E-12	0.00%	2.74E+05	3.58E-02	27.57%
118-K-1_P1_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	2.12E+04	--	--	--	3.65E+07	5.81E-04	0.45%
118-K-1_P1_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.82E+07	--	--	--	6.39E+08	4.41E-02	34.00%
118-K-1_P1_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	4.08E+05	--	--	--	1.28E+08	3.20E-03	2.46%
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	8.20E+05	1.10E-11	0.00%	5.03E+06	1.79E-06	0.00%
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.56E+06	1.32E-04	0.10%
118-K-1_P1_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	1.14E+04	3.68E+10	3.10E-13	0.00%	1.82E+07	6.25E-04	0.48%
118-K-1_P1_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	1.81E+04	--	--	--	6.48E+09	2.79E-06	0.00%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.72E+03	--	--	--	2.74E+06	6.30E-04	0.49%
118-K-1_P1_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	6.97E+04	--	--	--	4.56E+06	1.53E-02	11.77%
118-K-1_P1_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	5.75E+04	--	--	--	2.74E+08	2.10E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.63E-07**	**--**	**--**	**1.30E-01**	**--**
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.30E-02	2.77E+03	3.35E-09	0.09%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.70E+00	9.82E+01	3.77E-06	96.87%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	8.70E-02	4.04E+03	2.15E-09	0.06%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.99E+00	5.28E+03	3.77E-08	0.97%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	6.23E-01	6.20E+03	1.01E-08	0.26%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	4.60E-02	3.01E+02	1.53E-08	0.39%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Uranium-238	U-238	pCi/g	5.72E-01	1.07E+03	5.33E-08	1.37%	--	--	--
Total Radiological Risk Estimate							**3.89E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.85E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.76E+06	--	--	--	9.12E+08	6.31E-03	6.92%
118-K-1_P2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2.42E+03	4.99E+03	4.85E-07	100.00%	2.56E+05	9.47E-03	10.38%
118-K-1_P2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.82E+08	3.04E-04	0.33%
118-K-1_P2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	2.51E+02	3.98E+09	6.30E-14	0.00%	1.82E+06	1.38E-04	0.15%
118-K-1_P2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1.46E+03	--	--	--	1.82E+08	7.99E-06	0.01%
118-K-1_P2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	7.65E+01	5.31E+09	1.44E-14	0.00%	8.33E+05	9.18E-05	0.10%
118-K-1_P2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	6.29E+03	--	--	--	1.37E+09	4.60E-06	0.01%
118-K-1_P2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7.41E+03	1.06E+09	6.97E-12	0.00%	2.74E+05	2.71E-02	29.64%
118-K-1_P2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	1.38E+04	--	--	--	3.65E+07	3.78E-04	0.41%
118-K-1_P2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	--	--	--	6.39E+08	3.24E-02	35.51%
118-K-1_P2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	2.95E+05	--	--	--	1.28E+08	2.31E-03	2.53%
118-K-1_P2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.23E+02	--	--	--	4.56E+06	9.26E-05	0.10%
118-K-1_P2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	7.14E+03	3.68E+10	1.94E-13	0.00%	1.82E+07	3.91E-04	0.43%
118-K-1_P2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	5.54E+04	--	--	--	4.56E+06	1.21E-02	13.30%
118-K-1_P2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	4.43E+04	--	--	--	2.74E+08	1.62E-04	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.85E-07**	**--**	**--**	**9.13E-02**	**--**
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	4.52E+00	3.30E+05	1.37E-09	0.19%	--	--	--
118-K-1_P2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	7.30E-02	9.82E+01	7.43E-08	10.48%	--	--	--
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	6.48E+00	1.02E+03	6.33E-07	89.32%	--	--	--
Total Radiological Risk Estimate							**7.09E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.19E-06**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_10	non-Rad	Aluminum	7429-90-5	ug/kg	9.80E+06	--	--	--	9.12E+08	1.07E-02	8.05%
118-K-1_P2_Shallow_10	non-Rad	Arsenic	7440-38-2	ug/kg	3.37E+03	4.99E+03	6.76E-07	100.00%	2.56E+05	1.32E-02	9.88%
118-K-1_P2_Shallow_10	non-Rad	Barium	7440-39-3	ug/kg	7.66E+04	--	--	--	1.82E+08	4.20E-04	0.31%
118-K-1_P2_Shallow_10	non-Rad	Beryllium	7440-41-7	ug/kg	4.01E+02	3.98E+09	1.01E-13	0.00%	1.82E+06	2.19E-04	0.16%
118-K-1_P2_Shallow_10	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	1.82E+08	9.09E-06	0.01%
118-K-1_P2_Shallow_10	non-Rad	Cadmium	7440-43-9	ug/kg	1.21E+02	5.31E+09	2.28E-14	0.00%	8.33E+05	1.45E-04	0.11%
118-K-1_P2_Shallow_10	non-Rad	Chromium	7440-47-3	ug/kg	1.16E+04	--	--	--	1.37E+09	8.47E-06	0.01%
118-K-1_P2_Shallow_10	non-Rad	Cobalt	7440-48-4	ug/kg	9.60E+03	1.06E+09	9.04E-12	0.00%	2.74E+05	3.51E-02	26.27%
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	ug/kg	2.26E+04	--	--	--	3.65E+07	6.21E-04	0.46%
118-K-1_P2_Shallow_10	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	--	--	--	6.39E+08	4.94E-02	36.98%
118-K-1_P2_Shallow_10	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.28E+08	3.54E-03	2.66%
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	ug/kg	1.59E+03	--	--	--	4.56E+06	3.48E-04	0.26%
118-K-1_P2_Shallow_10	non-Rad	Nickel	7440-02-0	ug/kg	1.08E+04	3.68E+10	2.94E-13	0.00%	1.82E+07	5.92E-04	0.44%
118-K-1_P2_Shallow_10	non-Rad	Nitrate	14797-55-8	ug/kg	4.45E+04	--	--	--	6.48E+09	6.88E-06	0.01%
118-K-1_P2_Shallow_10	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.17E+03	--	--	--	2.74E+06	7.93E-04	0.59%
118-K-1_P2_Shallow_10	non-Rad	Vanadium	7440-62-2	ug/kg	8.31E+04	--	--	--	4.56E+06	1.82E-02	13.64%
118-K-1_P2_Shallow_10	non-Rad	Zinc	7440-66-6	ug/kg	5.63E+04	--	--	--	2.74E+08	2.06E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.76E-07**	**--**	**--**	**1.33E-01**	**--**
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	pCi/g	8.84E-01	3.30E+05	2.68E-10	0.14%	--	--	--
118-K-1_P2_Shallow_10	Rad	Cesium-137	10045-97-3	pCi/g	1.09E-01	9.82E+01	1.11E-07	58.17%	--	--	--
118-K-1_P2_Shallow_10	Rad	Uranium-233/234	U-233/234	pCi/g	7.18E-01	6.20E+03	1.16E-08	6.07%	--	--	--
118-K-1_P2_Shallow_10	Rad	Uranium-238	U-238	pCi/g	7.29E-01	1.07E+03	6.79E-08	35.62%	--	--	--
Total Radiological Risk Estimate							**1.91E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.67E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11A	non-Rad	Aluminum	7429-90-5	ug/kg	7.97E+06	--	--	--	9.12E+08	8.73E-03	7.81%
118-K-1_P2_Shallow_11A	non-Rad	Arsenic	7440-38-2	ug/kg	2.97E+03	4.99E+03	5.96E-07	100.00%	2.56E+05	1.16E-02	10.41%
118-K-1_P2_Shallow_11A	non-Rad	Barium	7440-39-3	ug/kg	7.54E+04	--	--	--	1.82E+08	4.13E-04	0.37%
118-K-1_P2_Shallow_11A	non-Rad	Beryllium	7440-41-7	ug/kg	3.11E+02	3.98E+09	7.81E-14	0.00%	1.82E+06	1.70E-04	0.15%
118-K-1_P2_Shallow_11A	non-Rad	Boron	7440-42-8	ug/kg	1.85E+03	--	--	--	1.82E+08	1.01E-05	0.01%
118-K-1_P2_Shallow_11A	non-Rad	Cadmium	7440-43-9	ug/kg	1.24E+02	5.31E+09	2.34E-14	0.00%	8.33E+05	1.49E-04	0.13%
118-K-1_P2_Shallow_11A	non-Rad	Chromium	7440-47-3	ug/kg	9.10E+03	--	--	--	1.37E+09	6.65E-06	0.01%
118-K-1_P2_Shallow_11A	non-Rad	Cobalt	7440-48-4	ug/kg	8.04E+03	1.06E+09	7.57E-12	0.00%	2.74E+05	2.94E-02	26.28%
118-K-1_P2_Shallow_11A	non-Rad	Copper	7440-50-8	ug/kg	1.80E+04	--	--	--	3.65E+07	4.93E-04	0.44%
118-K-1_P2_Shallow_11A	non-Rad	Iron	7439-89-6	ug/kg	2.64E+07	--	--	--	6.39E+08	4.13E-02	36.98%
118-K-1_P2_Shallow_11A	non-Rad	Manganese	7439-96-5	ug/kg	3.51E+05	--	--	--	1.28E+08	2.75E-03	2.46%
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.56E+06	1.42E-04	0.13%
118-K-1_P2_Shallow_11A	non-Rad	Nickel	7440-02-0	ug/kg	1.07E+04	3.68E+10	2.90E-13	0.00%	1.82E+07	5.84E-04	0.52%
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+05	--	--	--	6.48E+09	1.87E-05	0.02%
118-K-1_P2_Shallow_11A	non-Rad	Vanadium	7440-62-2	ug/kg	7.19E+04	--	--	--	4.56E+06	1.58E-02	14.10%
118-K-1_P2_Shallow_11A	non-Rad	Zinc	7440-66-6	ug/kg	5.60E+04	--	--	--	2.74E+08	2.05E-04	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.96E-07**	**--**	**--**	**1.12E-01**	**--**
118-K-1_P2_Shallow_11A	Rad	Cesium-137	10045-97-3	pCi/g	1.35E-01	9.82E+01	1.38E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**1.38E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.34E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11B	non-Rad	Aluminum	7429-90-5	ug/kg	1.06E+07	--	--	--	9.12E+08	1.16E-02	10.23%
118-K-1_P2_Shallow_11B	non-Rad	Arsenic	7440-38-2	ug/kg	3.23E+03	4.99E+03	6.47E-07	100.00%	2.56E+05	1.26E-02	11.13%
118-K-1_P2_Shallow_11B	non-Rad	Barium	7440-39-3	ug/kg	8.71E+04	--	--	--	1.82E+08	4.77E-04	0.42%
118-K-1_P2_Shallow_11B	non-Rad	Beryllium	7440-41-7	ug/kg	3.83E+02	3.98E+09	9.63E-14	0.00%	1.82E+06	2.10E-04	0.19%
118-K-1_P2_Shallow_11B	non-Rad	Boron	7440-42-8	ug/kg	2.29E+03	--	--	--	1.82E+08	1.25E-05	0.01%
118-K-1_P2_Shallow_11B	non-Rad	Cadmium	7440-43-9	ug/kg	1.36E+02	5.31E+09	2.56E-14	0.00%	8.33E+05	1.63E-04	0.14%
118-K-1_P2_Shallow_11B	non-Rad	Chromium	7440-47-3	ug/kg	1.27E+04	--	--	--	1.37E+09	9.29E-06	0.01%
118-K-1_P2_Shallow_11B	non-Rad	Cobalt	7440-48-4	ug/kg	7.86E+03	1.06E+09	7.40E-12	0.00%	2.74E+05	2.87E-02	25.29%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11B	non-Rad	Copper	7440-50-8	ug/kg	1.77E+04	--	--	--	3.65E+07	4.85E-04	0.43%
118-K-1_P2_Shallow_11B	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	--	--	--	6.39E+08	3.98E-02	35.02%
118-K-1_P2_Shallow_11B	non-Rad	Manganese	7439-96-5	ug/kg	4.04E+05	--	--	--	1.28E+08	3.16E-03	2.79%
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	6.78E+02	--	--	--	4.56E+06	1.49E-04	0.13%
118-K-1_P2_Shallow_11B	non-Rad	Nickel	7440-02-0	ug/kg	1.20E+04	3.68E+10	3.26E-13	0.00%	1.82E+07	6.58E-04	0.58%
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	ug/kg	3.91E+05	--	--	--	6.48E+09	6.03E-05	0.05%
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.74E+08	3.65E-06	0.00%
118-K-1_P2_Shallow_11B	non-Rad	Vanadium	7440-62-2	ug/kg	6.94E+04	--	--	--	4.56E+06	1.52E-02	13.40%
118-K-1_P2_Shallow_11B	non-Rad	Zinc	7440-66-6	ug/kg	5.79E+04	--	--	--	2.74E+08	2.12E-04	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.47E-07**	**--**	**--**	**1.14E-01**	**--**
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	pCi/g	8.77E-01	3.30E+05	2.66E-10	0.26%	--	--	--
118-K-1_P2_Shallow_11B	Rad	Cesium-137	10045-97-3	pCi/g	9.94E-02	9.82E+01	1.01E-07	99.74%	--	--	--
Total Radiological Risk Estimate							**1.01E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.49E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	9.12E+08	1.38E-02	11.86%
118-K-1_P2_Shallow_11C	non-Rad	Arsenic	7440-38-2	ug/kg	3.65E+03	4.99E+03	7.33E-07	100.00%	2.56E+05	1.43E-02	12.27%
118-K-1_P2_Shallow_11C	non-Rad	Barium	7440-39-3	ug/kg	9.64E+04	--	--	--	1.82E+08	5.28E-04	0.45%
118-K-1_P2_Shallow_11C	non-Rad	Beryllium	7440-41-7	ug/kg	4.33E+02	3.98E+09	1.09E-13	0.00%	1.82E+06	2.37E-04	0.20%
118-K-1_P2_Shallow_11C	non-Rad	Boron	7440-42-8	ug/kg	2.41E+03	--	--	--	1.82E+08	1.32E-05	0.01%
118-K-1_P2_Shallow_11C	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	5.31E+09	2.75E-14	0.00%	8.33E+05	1.75E-04	0.15%
118-K-1_P2_Shallow_11C	non-Rad	Chromium	7440-47-3	ug/kg	1.49E+04	--	--	--	1.37E+09	1.09E-05	0.01%
118-K-1_P2_Shallow_11C	non-Rad	Cobalt	7440-48-4	ug/kg	7.71E+03	1.06E+09	7.26E-12	0.00%	2.74E+05	2.82E-02	24.18%
118-K-1_P2_Shallow_11C	non-Rad	Copper	7440-50-8	ug/kg	1.95E+04	--	--	--	3.65E+07	5.33E-04	0.46%
118-K-1_P2_Shallow_11C	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	--	--	--	6.39E+08	3.96E-02	34.01%
118-K-1_P2_Shallow_11C	non-Rad	Manganese	7439-96-5	ug/kg	4.41E+05	--	--	--	1.28E+08	3.45E-03	2.97%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	2.74E+05	1.42E-04	0.12%
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	ug/kg	5.17E+02	--	--	--	4.56E+06	1.13E-04	0.10%
118-K-1_P2_Shallow_11C	non-Rad	Nickel	7440-02-0	ug/kg	1.44E+04	3.68E+10	3.92E-13	0.00%	1.82E+07	7.89E-04	0.68%
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	ug/kg	1.69E+05	--	--	--	6.48E+09	2.61E-05	0.02%
118-K-1_P2_Shallow_11C	non-Rad	Vanadium	7440-62-2	ug/kg	6.57E+04	--	--	--	4.56E+06	1.44E-02	12.36%
118-K-1_P2_Shallow_11C	non-Rad	Zinc	7440-66-6	ug/kg	4.96E+04	--	--	--	2.74E+08	1.81E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.33E-07**	**--**	**--**	**1.16E-01**	**--**
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	pCi/g	8.70E-01	3.30E+05	2.64E-10	0.27%	--	--	--
118-K-1_P2_Shallow_11C	Rad	Cesium-137	10045-97-3	pCi/g	9.50E-02	9.82E+01	9.67E-08	99.73%	--	--	--
Total Radiological Risk Estimate							**9.70E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.30E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11D	non-Rad	Aluminum	7429-90-5	ug/kg	1.17E+07	--	--	--	9.12E+08	1.28E-02	11.84%
118-K-1_P2_Shallow_11D	non-Rad	Arsenic	7440-38-2	ug/kg	3.12E+03	4.99E+03	6.26E-07	100.00%	2.56E+05	1.22E-02	11.27%
118-K-1_P2_Shallow_11D	non-Rad	Barium	7440-39-3	ug/kg	8.91E+04	--	--	--	1.82E+08	4.88E-04	0.45%
118-K-1_P2_Shallow_11D	non-Rad	Beryllium	7440-41-7	ug/kg	3.95E+02	3.98E+09	9.92E-14	0.00%	1.82E+06	2.16E-04	0.20%
118-K-1_P2_Shallow_11D	non-Rad	Boron	7440-42-8	ug/kg	2.32E+03	--	--	--	1.82E+08	1.27E-05	0.01%
118-K-1_P2_Shallow_11D	non-Rad	Cadmium	7440-43-9	ug/kg	1.62E+02	5.31E+09	3.05E-14	0.00%	8.33E+05	1.94E-04	0.18%
118-K-1_P2_Shallow_11D	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.37E+09	9.21E-06	0.01%
118-K-1_P2_Shallow_11D	non-Rad	Cobalt	7440-48-4	ug/kg	7.28E+03	1.06E+09	6.85E-12	0.00%	2.74E+05	2.66E-02	24.54%
118-K-1_P2_Shallow_11D	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.65E+07	4.09E-04	0.38%
118-K-1_P2_Shallow_11D	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	--	--	--	6.39E+08	3.74E-02	34.55%
118-K-1_P2_Shallow_11D	non-Rad	Manganese	7439-96-5	ug/kg	4.09E+05	--	--	--	1.28E+08	3.20E-03	2.96%
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.56E+06	1.23E-04	0.11%
118-K-1_P2_Shallow_11D	non-Rad	Nickel	7440-02-0	ug/kg	1.16E+04	3.68E+10	3.16E-13	0.00%	1.82E+07	6.36E-04	0.59%
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	ug/kg	1.48E+05	--	--	--	6.48E+09	2.28E-05	0.02%
118-K-1_P2_Shallow_11D	non-Rad	Vanadium	7440-62-2	ug/kg	6.29E+04	--	--	--	4.56E+06	1.38E-02	12.73%
118-K-1_P2_Shallow_11D	non-Rad	Zinc	7440-66-6	ug/kg	4.97E+04	--	--	--	2.74E+08	1.82E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.26E-07**	**--**	**--**	**1.08E-01**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	pCi/g	1.15E+00	3.30E+05	3.49E-10	0.28%	--	--	--
118-K-1_P2_Shallow_11D	Rad	Cesium-137	10045-97-3	pCi/g	1.20E-01	9.82E+01	1.22E-07	99.72%	--	--	--
Total Radiological Risk Estimate							**1.23E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.48E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11E	non-Rad	Aluminum	7429-90-5	ug/kg	1.12E+07	--	--	--	9.12E+08	1.22E-02	10.32%
118-K-1_P2_Shallow_11E	non-Rad	Arsenic	7440-38-2	ug/kg	3.77E+03	4.99E+03	7.57E-07	100.00%	2.56E+05	1.48E-02	12.46%
118-K-1_P2_Shallow_11E	non-Rad	Barium	7440-39-3	ug/kg	9.49E+04	--	--	--	1.82E+08	5.20E-04	0.44%
118-K-1_P2_Shallow_11E	non-Rad	Beryllium	7440-41-7	ug/kg	3.79E+02	3.98E+09	9.51E-14	0.00%	1.82E+06	2.08E-04	0.18%
118-K-1_P2_Shallow_11E	non-Rad	Boron	7440-42-8	ug/kg	2.31E+03	--	--	--	1.82E+08	1.27E-05	0.01%
118-K-1_P2_Shallow_11E	non-Rad	Cadmium	7440-43-9	ug/kg	1.46E+02	5.31E+09	2.75E-14	0.00%	8.33E+05	1.75E-04	0.15%
118-K-1_P2_Shallow_11E	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.37E+09	9.22E-06	0.01%
118-K-1_P2_Shallow_11E	non-Rad	Cobalt	7440-48-4	ug/kg	7.83E+03	1.06E+09	7.37E-12	0.00%	2.74E+05	2.86E-02	24.15%
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.65E+07	6.12E-04	0.52%
118-K-1_P2_Shallow_11E	non-Rad	Iron	7439-89-6	ug/kg	2.68E+07	--	--	--	6.39E+08	4.19E-02	35.41%
118-K-1_P2_Shallow_11E	non-Rad	Manganese	7439-96-5	ug/kg	4.32E+05	--	--	--	1.28E+08	3.38E-03	2.86%
118-K-1_P2_Shallow_11E	non-Rad	Mercury	7439-97-6	ug/kg	9.26E+00	--	--	--	2.74E+05	3.38E-05	0.03%
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.56E+06	1.23E-04	0.10%
118-K-1_P2_Shallow_11E	non-Rad	Nickel	7440-02-0	ug/kg	1.11E+04	3.68E+10	3.02E-13	0.00%	1.82E+07	6.08E-04	0.51%
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	ug/kg	5.60E+04	--	--	--	6.48E+09	8.64E-06	0.01%
118-K-1_P2_Shallow_11E	non-Rad	Vanadium	7440-62-2	ug/kg	6.85E+04	--	--	--	4.56E+06	1.50E-02	12.68%
118-K-1_P2_Shallow_11E	non-Rad	Zinc	7440-66-6	ug/kg	5.43E+04	--	--	--	2.74E+08	1.98E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.57E-07**	**--**	**--**	**1.18E-01**	**--**
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	pCi/g	2.06E+00	3.30E+05	6.25E-10	0.44%	--	--	--
118-K-1_P2_Shallow_11E	Rad	Cesium-137	10045-97-3	pCi/g	1.38E-01	9.82E+01	1.40E-07	99.56%	--	--	--
Total Radiological Risk Estimate							**1.41E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.98E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11F	non-Rad	Aluminum	7429-90-5	ug/kg	9.42E+06	--	--	--	9.12E+08	1.03E-02	8.86%
118-K-1_P2_Shallow_11F	non-Rad	Arsenic	7440-38-2	ug/kg	3.38E+03	4.99E+03	6.78E-07	100.00%	2.56E+05	1.32E-02	11.35%
118-K-1_P2_Shallow_11F	non-Rad	Barium	7440-39-3	ug/kg	8.34E+04	--	--	--	1.82E+08	4.57E-04	0.39%
118-K-1_P2_Shallow_11F	non-Rad	Beryllium	7440-41-7	ug/kg	3.16E+02	3.98E+09	7.93E-14	0.00%	1.82E+06	1.73E-04	0.15%
118-K-1_P2_Shallow_11F	non-Rad	Boron	7440-42-8	ug/kg	2.21E+03	--	--	--	1.82E+08	1.21E-05	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Cadmium	7440-43-9	ug/kg	1.49E+02	5.31E+09	2.81E-14	0.00%	8.33E+05	1.79E-04	0.15%
118-K-1_P2_Shallow_11F	non-Rad	Chromium	7440-47-3	ug/kg	1.12E+04	--	--	--	1.37E+09	8.18E-06	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Cobalt	7440-48-4	ug/kg	8.06E+03	1.06E+09	7.58E-12	0.00%	2.74E+05	2.94E-02	25.26%
118-K-1_P2_Shallow_11F	non-Rad	Copper	7440-50-8	ug/kg	1.63E+04	--	--	--	3.65E+07	4.47E-04	0.38%
118-K-1_P2_Shallow_11F	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	--	--	--	6.39E+08	4.12E-02	35.40%
118-K-1_P2_Shallow_11F	non-Rad	Manganese	7439-96-5	ug/kg	3.74E+05	--	--	--	1.28E+08	2.93E-03	2.52%
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	2.74E+05	7.96E-05	0.07%
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	ug/kg	8.84E+02	--	--	--	4.56E+06	1.94E-04	0.17%
118-K-1_P2_Shallow_11F	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	3.68E+10	3.07E-13	0.00%	1.82E+07	6.19E-04	0.53%
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	ug/kg	6.51E+04	--	--	--	6.48E+09	1.00E-05	0.01%
118-K-1_P2_Shallow_11F	non-Rad	Vanadium	7440-62-2	ug/kg	7.75E+04	--	--	--	4.56E+06	1.70E-02	14.58%
118-K-1_P2_Shallow_11F	non-Rad	Zinc	7440-66-6	ug/kg	5.17E+04	--	--	--	2.74E+08	1.89E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.78E-07**	**--**	**--**	**1.16E-01**	**--**
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	pCi/g	1.31E+00	3.30E+05	3.98E-10	0.07%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Cesium-137	10045-97-3	pCi/g	2.21E-01	9.82E+01	2.25E-07	38.40%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	pCi/g	3.69E+00	1.02E+03	3.61E-07	61.54%	--	--	--
Total Radiological Risk Estimate							**5.86E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.26E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11G	non-Rad	Aluminum	7429-90-5	ug/kg	7.17E+06	--	--	--	9.12E+08	7.85E-03	6.72%
118-K-1_P2_Shallow_11G	non-Rad	Arsenic	7440-38-2	ug/kg	2.69E+03	4.99E+03	5.39E-07	100.00%	2.56E+05	1.05E-02	9.01%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11G	non-Rad	Barium	7440-39-3	ug/kg	6.03E+04	--	--	--	1.82E+08	3.30E-04	0.28%
118-K-1_P2_Shallow_11G	non-Rad	Beryllium	7440-41-7	ug/kg	2.90E+02	3.98E+09	7.28E-14	0.00%	1.82E+06	1.59E-04	0.14%
118-K-1_P2_Shallow_11G	non-Rad	Boron	7440-42-8	ug/kg	1.34E+03	--	--	--	1.82E+08	7.34E-06	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Cadmium	7440-43-9	ug/kg	1.09E+02	5.31E+09	2.05E-14	0.00%	8.33E+05	1.31E-04	0.11%
118-K-1_P2_Shallow_11G	non-Rad	Chromium	7440-47-3	ug/kg	8.12E+03	--	--	--	1.37E+09	5.93E-06	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Cobalt	7440-48-4	ug/kg	8.36E+03	1.06E+09	7.87E-12	0.00%	2.74E+05	3.05E-02	26.15%
118-K-1_P2_Shallow_11G	non-Rad	Copper	7440-50-8	ug/kg	1.68E+04	--	--	--	3.65E+07	4.60E-04	0.39%
118-K-1_P2_Shallow_11G	non-Rad	Iron	7439-89-6	ug/kg	2.83E+07	--	--	--	6.39E+08	4.43E-02	37.89%
118-K-1_P2_Shallow_11G	non-Rad	Manganese	7439-96-5	ug/kg	3.78E+05	--	--	--	1.28E+08	2.96E-03	2.53%
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	ug/kg	5.82E+02	--	--	--	4.56E+06	1.28E-04	0.11%
118-K-1_P2_Shallow_11G	non-Rad	Nickel	7440-02-0	ug/kg	9.76E+03	3.68E+10	2.65E-13	0.00%	1.82E+07	5.35E-04	0.46%
118-K-1_P2_Shallow_11G	non-Rad	Nitrate	14797-55-8	ug/kg	4.28E+04	--	--	--	6.48E+09	6.61E-06	0.01%
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	4.56E+06	1.87E-02	16.02%
118-K-1_P2_Shallow_11G	non-Rad	Zinc	7440-66-6	ug/kg	5.51E+04	--	--	--	2.74E+08	2.01E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.39E-07**	**--**	**--**	**1.17E-01**	**--**
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	pCi/g	1.88E+00	3.30E+05	5.70E-10	0.34%	--	--	--
118-K-1_P2_Shallow_11G	Rad	Cesium-137	10045-97-3	pCi/g	1.63E-01	9.82E+01	1.66E-07	99.66%	--	--	--
Total Radiological Risk Estimate							**1.66E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.06E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11H	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	--	--	--	9.12E+08	7.13E-03	6.40%
118-K-1_P2_Shallow_11H	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	4.99E+03	5.56E-07	100.00%	2.56E+05	1.09E-02	9.73%
118-K-1_P2_Shallow_11H	non-Rad	Barium	7440-39-3	ug/kg	5.55E+04	--	--	--	1.82E+08	3.04E-04	0.27%
118-K-1_P2_Shallow_11H	non-Rad	Beryllium	7440-41-7	ug/kg	2.56E+02	3.98E+09	6.43E-14	0.00%	1.82E+06	1.40E-04	0.13%
118-K-1_P2_Shallow_11H	non-Rad	Boron	7440-42-8	ug/kg	1.26E+03	--	--	--	1.82E+08	6.89E-06	0.01%
118-K-1_P2_Shallow_11H	non-Rad	Cadmium	7440-43-9	ug/kg	1.03E+02	5.31E+09	1.94E-14	0.00%	8.33E+05	1.24E-04	0.11%
118-K-1_P2_Shallow_11H	non-Rad	Chromium	7440-47-3	ug/kg	6.94E+03	--	--	--	1.37E+09	5.07E-06	0.00%
118-K-1_P2_Shallow_11H	non-Rad	Cobalt	7440-48-4	ug/kg	7.81E+03	1.06E+09	7.35E-12	0.00%	2.74E+05	2.85E-02	25.57%
118-K-1_P2_Shallow_11H	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.65E+07	4.52E-04	0.41%
118-K-1_P2_Shallow_11H	non-Rad	Iron	7439-89-6	ug/kg	2.71E+07	--	--	--	6.39E+08	4.24E-02	38.03%
118-K-1_P2_Shallow_11H	non-Rad	Manganese	7439-96-5	ug/kg	3.44E+05	--	--	--	1.28E+08	2.69E-03	2.42%
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	ug/kg	4.88E+02	--	--	--	4.56E+06	1.07E-04	0.10%
118-K-1_P2_Shallow_11H	non-Rad	Nickel	7440-02-0	ug/kg	9.39E+03	3.68E+10	2.55E-13	0.00%	1.82E+07	5.15E-04	0.46%
118-K-1_P2_Shallow_11H	non-Rad	Nitrate	14797-55-8	ug/kg	2.10E+04	--	--	--	6.48E+09	3.24E-06	0.00%
118-K-1_P2_Shallow_11H	non-Rad	Vanadium	7440-62-2	ug/kg	8.24E+04	--	--	--	4.56E+06	1.81E-02	16.19%
118-K-1_P2_Shallow_11H	non-Rad	Zinc	7440-66-6	ug/kg	5.59E+04	--	--	--	2.74E+08	2.04E-04	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.56E-07**	**--**	**--**	**1.12E-01**	**--**
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	pCi/g	1.61E+00	3.30E+05	4.89E-10	0.07%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Cesium-137	10045-97-3	pCi/g	2.74E-01	9.82E+01	2.79E-07	38.29%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	pCi/g	2.87E-01	6.39E+01	4.49E-07	61.64%	--	--	--
Total Radiological Risk Estimate							**7.28E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.28E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.08E+06	--	--	--	9.12E+08	7.76E-03	8.61%
118-K-1_P2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	4.99E+03	5.76E-07	100.00%	2.56E+05	1.12E-02	12.45%
118-K-1_P2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	5.69E+04	--	--	--	1.82E+08	3.12E-04	0.35%
118-K-1_P2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	3.98E+09	7.14E-14	0.00%	1.82E+06	1.56E-04	0.17%
118-K-1_P2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	1.82E+08	7.62E-06	0.01%
118-K-1_P2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	8.40E+01	5.31E+09	1.58E-14	0.00%	8.33E+05	1.01E-04	0.11%
118-K-1_P2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	8.52E+03	--	--	--	1.37E+09	6.23E-06	0.01%
118-K-1_P2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6.39E+03	1.06E+09	6.01E-12	0.00%	2.74E+05	2.33E-02	25.86%
118-K-1_P2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	1.37E+04	--	--	--	3.65E+07	3.75E-04	0.42%
118-K-1_P2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	--	--	--	6.39E+08	3.11E-02	34.49%
118-K-1_P2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	3.09E+05	--	--	--	1.28E+08	2.42E-03	2.69%
118-K-1_P2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	3.75E+02	--	--	--	4.56E+06	8.21E-05	0.09%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	8.84E+03	3.68E+10	2.40E-13	0.00%	1.82E+07	4.84E-04	0.54%
118-K-1_P2_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.96E+03	--	--	--	2.74E+06	7.15E-04	0.79%
118-K-1_P2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	5.46E+04	--	--	--	4.56E+06	1.20E-02	13.27%
118-K-1_P2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	4.00E+04	--	--	--	2.74E+08	1.46E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.76E-07**	**--**	**--**	**9.02E-02**	**--**
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.00E+00	3.30E+05	3.03E-10	0.06%	--	--	--
118-K-1_P2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	9.70E-02	9.82E+01	9.87E-08	18.57%	--	--	--
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	2.28E-01	6.39E+01	3.57E-07	67.16%	--	--	--
118-K-1_P2_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	8.87E-01	6.20E+03	1.43E-08	2.69%	--	--	--
118-K-1_P2_Shallow_2	Rad	Uranium-238	U-238	pCi/g	6.57E-01	1.07E+03	6.13E-08	11.52%	--	--	--
Total Radiological Risk Estimate							**5.32E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.11E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.96E+06	--	--	--	9.12E+08	8.73E-03	9.20%
118-K-1_P2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2.87E+03	4.99E+03	5.77E-07	100.00%	2.56E+05	1.12E-02	11.86%
118-K-1_P2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	6.26E+04	--	--	--	1.82E+08	3.43E-04	0.36%
118-K-1_P2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.05E+02	3.98E+09	7.67E-14	0.00%	1.82E+06	1.67E-04	0.18%
118-K-1_P2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1.66E+03	--	--	--	1.82E+08	9.09E-06	0.01%
118-K-1_P2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	8.53E+01	5.31E+09	1.61E-14	0.00%	8.33E+05	1.02E-04	0.11%
118-K-1_P2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9.18E+03	--	--	--	1.37E+09	6.71E-06	0.01%
118-K-1_P2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6.61E+03	1.06E+09	6.22E-12	0.00%	2.74E+05	2.41E-02	25.45%
118-K-1_P2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	1.49E+04	--	--	--	3.65E+07	4.08E-04	0.43%
118-K-1_P2_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	--	--	--	6.39E+08	3.30E-02	34.82%
118-K-1_P2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.28E+08	2.48E-03	2.61%
118-K-1_P2_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.44E+02	--	--	--	4.56E+06	9.73E-05	0.10%
118-K-1_P2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	9.29E+03	3.68E+10	2.53E-13	0.00%	1.82E+07	5.09E-04	0.54%
118-K-1_P2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.25E+03	--	--	--	2.74E+06	8.22E-04	0.87%
118-K-1_P2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	5.75E+04	--	--	--	4.56E+06	1.26E-02	13.30%
118-K-1_P2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	4.34E+04	--	--	--	2.74E+08	1.59E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.77E-07**	**--**	**--**	**9.49E-02**	**--**
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	3.30E+05	3.58E-10	0.44%	--	--	--
118-K-1_P2_Shallow_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.40E-02	4.04E+03	3.46E-10	0.42%	--	--	--
118-K-1_P2_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	6.61E-01	6.20E+03	1.07E-08	13.04%	--	--	--
118-K-1_P2_Shallow_3	Rad	Uranium-238	U-238	pCi/g	7.56E-01	1.07E+03	7.04E-08	86.10%	--	--	--
Total Radiological Risk Estimate							**8.18E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.58E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	6.79E+06	--	--	--	9.12E+08	7.44E-03	7.45%
118-K-1_P2_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	3.17E+03	4.99E+03	6.35E-07	100.00%	2.56E+05	1.24E-02	12.41%
118-K-1_P2_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	5.30E+04	--	--	--	1.82E+08	2.90E-04	0.29%
118-K-1_P2_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.77E+02	3.98E+09	6.95E-14	0.00%	1.82E+06	1.52E-04	0.15%
118-K-1_P2_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	1.82E+08	5.59E-06	0.01%
118-K-1_P2_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	5.19E+01	5.31E+09	9.77E-15	0.00%	8.33E+05	6.23E-05	0.06%
118-K-1_P2_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	6.92E+03	--	--	--	1.37E+09	5.06E-06	0.01%
118-K-1_P2_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.32E+03	1.06E+09	6.89E-12	0.00%	2.74E+05	2.67E-02	26.79%
118-K-1_P2_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	1.41E+04	--	--	--	3.65E+07	3.86E-04	0.39%
118-K-1_P2_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	--	--	--	6.39E+08	3.45E-02	34.53%
118-K-1_P2_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	2.91E+05	--	--	--	1.28E+08	2.28E-03	2.28%
118-K-1_P2_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	3.16E+02	--	--	--	4.56E+06	6.93E-05	0.07%
118-K-1_P2_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	7.60E+03	3.68E+10	2.07E-13	0.00%	1.82E+07	4.16E-04	0.42%
118-K-1_P2_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.79E+03	--	--	--	2.74E+06	6.55E-04	0.66%
118-K-1_P2_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.53E+04	--	--	--	4.56E+06	1.43E-02	14.33%
118-K-1_P2_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	4.19E+04	--	--	--	2.74E+08	1.53E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.35E-07**	**--**	**--**	**9.98E-02**	**--**
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	pCi/g	8.58E-01	3.30E+05	2.60E-10	0.05%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	pCi/g	2.72E-01	5.72E+01	4.76E-07	84.54%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-233/234	U-233/234	pCi/g	6.41E-01	6.20E+03	1.03E-08	1.84%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-235	15117-96-1	pCi/g	6.10E-02	3.01E+02	2.03E-08	3.61%	--	--	--
118-K-1_P2_Shallow_4	Rad	Uranium-238	U-238	pCi/g	6.02E-01	1.07E+03	5.61E-08	9.97%	--	--	--
Total Radiological Risk Estimate							**5.63E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.20E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	8.45E+06	--	--	--	9.12E+08	9.26E-03	7.59%
118-K-1_P2_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2.93E+03	4.99E+03	5.88E-07	100.00%	2.56E+05	1.15E-02	9.40%
118-K-1_P2_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	7.30E+04	--	--	--	1.82E+08	4.00E-04	0.33%
118-K-1_P2_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	3.46E+02	3.98E+09	8.68E-14	0.00%	1.82E+06	1.89E-04	0.16%
118-K-1_P2_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1.61E+03	--	--	--	1.82E+08	8.82E-06	0.01%
118-K-1_P2_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	9.31E+01	5.31E+09	1.75E-14	0.00%	8.33E+05	1.12E-04	0.09%
118-K-1_P2_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	7.59E+03	--	--	--	1.37E+09	5.55E-06	0.00%
118-K-1_P2_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8.49E+03	1.06E+09	7.99E-12	0.00%	2.74E+05	3.10E-02	25.42%
118-K-1_P2_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.65E+07	5.29E-04	0.43%
118-K-1_P2_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	3.01E+07	--	--	--	6.39E+08	4.71E-02	38.63%
118-K-1_P2_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	3.96E+05	--	--	--	1.28E+08	3.10E-03	2.54%
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	2.74E+05	2.11E-04	0.17%
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.56E+06	1.21E-04	0.10%
118-K-1_P2_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	8.47E+03	3.68E+10	2.30E-13	0.00%	1.82E+07	4.64E-04	0.38%
118-K-1_P2_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	2.84E+04	--	--	--	6.48E+09	4.38E-06	0.00%
118-K-1_P2_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	8.12E+04	--	--	--	4.56E+06	1.78E-02	14.59%
118-K-1_P2_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	5.17E+04	--	--	--	2.74E+08	1.89E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.88E-07**	**--**	**--**	**1.22E-01**	**--**
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	pCi/g	7.93E-01	3.30E+05	2.41E-10	0.03%	--	--	--
118-K-1_P2_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.28E-01	9.82E+01	2.32E-07	31.58%	--	--	--
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	pCi/g	3.21E-01	6.39E+01	5.03E-07	68.39%	--	--	--
Total Radiological Risk Estimate							**7.35E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.32E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_6	non-Rad	Aluminum	7429-90-5	ug/kg	7.45E+06	--	--	--	9.12E+08	8.16E-03	6.93%
118-K-1_P2_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	2.54E+03	4.99E+03	5.09E-07	100.00%	2.56E+05	9.94E-03	8.44%
118-K-1_P2_Shallow_6	non-Rad	Barium	7440-39-3	ug/kg	1.14E+05	--	--	--	1.82E+08	6.25E-04	0.53%
118-K-1_P2_Shallow_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.45E+02	3.98E+09	8.66E-14	0.00%	1.82E+06	1.89E-04	0.16%
118-K-1_P2_Shallow_6	non-Rad	Boron	7440-42-8	ug/kg	9.57E+02	--	--	--	1.82E+08	5.24E-06	0.00%
118-K-1_P2_Shallow_6	non-Rad	Cadmium	7440-43-9	ug/kg	9.10E+01	5.31E+09	1.71E-14	0.00%	8.33E+05	1.09E-04	0.09%
118-K-1_P2_Shallow_6	non-Rad	Chromium	7440-47-3	ug/kg	6.25E+03	--	--	--	1.37E+09	4.57E-06	0.00%
118-K-1_P2_Shallow_6	non-Rad	Cobalt	7440-48-4	ug/kg	8.46E+03	1.06E+09	7.96E-12	0.00%	2.74E+05	3.09E-02	26.22%
118-K-1_P2_Shallow_6	non-Rad	Copper	7440-50-8	ug/kg	1.84E+04	--	--	--	3.65E+07	5.05E-04	0.43%
118-K-1_P2_Shallow_6	non-Rad	Iron	7439-89-6	ug/kg	2.95E+07	--	--	--	6.39E+08	4.62E-02	39.20%
118-K-1_P2_Shallow_6	non-Rad	Manganese	7439-96-5	ug/kg	3.92E+05	--	--	--	1.28E+08	3.07E-03	2.61%
118-K-1_P2_Shallow_6	non-Rad	Molybdenum	7439-98-7	ug/kg	3.90E+02	--	--	--	4.56E+06	8.55E-05	0.07%
118-K-1_P2_Shallow_6	non-Rad	Nickel	7440-02-0	ug/kg	8.81E+03	3.68E+10	2.40E-13	0.00%	1.82E+07	4.83E-04	0.41%
118-K-1_P2_Shallow_6	non-Rad	Vanadium	7440-62-2	ug/kg	7.92E+04	--	--	--	4.56E+06	1.74E-02	14.74%
118-K-1_P2_Shallow_6	non-Rad	Zinc	7440-66-6	ug/kg	5.61E+04	--	--	--	2.74E+08	2.05E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.09E-07**	**--**	**--**	**1.18E-01**	**--**
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	pCi/g	8.12E-01	3.30E+05	2.46E-10	0.02%	--	--	--
118-K-1_P2_Shallow_6	Rad	Cesium-137	10045-97-3	pCi/g	1.04E-01	9.82E+01	1.06E-07	8.63%	--	--	--
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	pCi/g	1.98E-01	6.39E+01	3.10E-07	25.29%	--	--	--
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	8.29E+00	1.02E+03	8.10E-07	66.06%	--	--	--
Total Radiological Risk Estimate							**1.23E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.74E-06**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_7	non-Rad	Aluminum	7429-90-5	ug/kg	9.46E+06	--	--	--	9.12E+08	1.04E-02	5.95%
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	ug/kg	1.63E+04	--	--	--	3.65E+05	4.47E-02	25.65%
118-K-1_P2_Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3.55E+03	4.99E+03	7.11E-07	100.00%	2.56E+05	1.39E-02	7.97%
118-K-1_P2_Shallow_7	non-Rad	Barium	7440-39-3	ug/kg	7.37E+04	--	--	--	1.82E+08	4.04E-04	0.23%
118-K-1_P2_Shallow_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.65E+02	3.98E+09	9.16E-14	0.00%	1.82E+06	2.00E-04	0.11%
118-K-1_P2_Shallow_7	non-Rad	Boron	7440-42-8	ug/kg	1.84E+03	--	--	--	1.82E+08	1.01E-05	0.01%
118-K-1_P2_Shallow_7	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.37E+09	7.53E-06	0.00%
118-K-1_P2_Shallow_7	non-Rad	Cobalt	7440-48-4	ug/kg	9.67E+03	1.06E+09	9.10E-12	0.00%	2.74E+05	3.53E-02	20.29%
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	ug/kg	2.25E+04	--	--	--	3.65E+07	6.16E-04	0.35%
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	7.61E+01	--	--	--	7.37E+07	1.03E-06	0.00%
118-K-1_P2_Shallow_7	non-Rad	Iron	7439-89-6	ug/kg	2.91E+07	--	--	--	6.39E+08	4.56E-02	26.16%
118-K-1_P2_Shallow_7	non-Rad	Manganese	7439-96-5	ug/kg	4.37E+05	--	--	--	1.28E+08	3.43E-03	1.97%
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	2.74E+05	4.71E-04	0.27%
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.56E+06	1.42E-04	0.08%
118-K-1_P2_Shallow_7	non-Rad	Nickel	7440-02-0	ug/kg	1.19E+04	3.68E+10	3.24E-13	0.00%	1.82E+07	6.52E-04	0.37%
118-K-1_P2_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.19E+03	--	--	--	2.74E+06	7.99E-04	0.46%
118-K-1_P2_Shallow_7	non-Rad	Vanadium	7440-62-2	ug/kg	7.91E+04	--	--	--	4.56E+06	1.73E-02	9.96%
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	7.72E+04	--	--	--	2.74E+08	2.82E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.11E-07**	**--**	**--**	**1.74E-01**	**--**
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	pCi/g	1.16E+00	3.30E+05	3.52E-10	0.10%	--	--	--
118-K-1_P2_Shallow_7	Rad	Cesium-137	10045-97-3	pCi/g	2.57E-01	9.82E+01	2.61E-07	76.58%	--	--	--
118-K-1_P2_Shallow_7	Rad	Uranium-233/234	U-233/234	pCi/g	6.90E-01	6.20E+03	1.11E-08	3.26%	--	--	--
118-K-1_P2_Shallow_7	Rad	Uranium-238	U-238	pCi/g	7.34E-01	1.07E+03	6.84E-08	20.05%	--	--	--
Total Radiological Risk Estimate							**3.41E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.05E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_8	non-Rad	Aluminum	7429-90-5	ug/kg	7.63E+06	--	--	--	9.12E+08	8.37E-03	5.80%
118-K-1_P2_Shallow_8	non-Rad	Arsenic	7440-38-2	ug/kg	3.42E+03	4.99E+03	6.86E-07	100.00%	2.56E+05	1.34E-02	9.28%
118-K-1_P2_Shallow_8	non-Rad	Barium	7440-39-3	ug/kg	7.82E+04	--	--	--	1.82E+08	4.29E-04	0.30%
118-K-1_P2_Shallow_8	non-Rad	Beryllium	7440-41-7	ug/kg	3.77E+02	3.98E+09	9.46E-14	0.00%	1.82E+06	2.07E-04	0.14%
118-K-1_P2_Shallow_8	non-Rad	Boron	7440-42-8	ug/kg	1.02E+03	--	--	--	1.82E+08	5.59E-06	0.00%
118-K-1_P2_Shallow_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	5.31E+09	2.18E-14	0.00%	8.33E+05	1.39E-04	0.10%
118-K-1_P2_Shallow_8	non-Rad	Chromium	7440-47-3	ug/kg	8.12E+03	--	--	--	1.37E+09	5.93E-06	0.00%
118-K-1_P2_Shallow_8	non-Rad	Cobalt	7440-48-4	ug/kg	1.34E+04	1.06E+09	1.26E-11	0.00%	2.74E+05	4.88E-02	33.85%
118-K-1_P2_Shallow_8	non-Rad	Copper	7440-50-8	ug/kg	2.00E+04	--	--	--	3.65E+07	5.48E-04	0.38%
118-K-1_P2_Shallow_8	non-Rad	Iron	7439-89-6	ug/kg	3.15E+07	--	--	--	6.39E+08	4.94E-02	34.21%
118-K-1_P2_Shallow_8	non-Rad	Manganese	7439-96-5	ug/kg	4.53E+05	--	--	--	1.28E+08	3.55E-03	2.46%
118-K-1_P2_Shallow_8	non-Rad	Molybdenum	7439-98-7	ug/kg	4.35E+02	--	--	--	4.56E+06	9.54E-05	0.07%
118-K-1_P2_Shallow_8	non-Rad	Nickel	7440-02-0	ug/kg	1.13E+04	3.68E+10	3.08E-13	0.00%	1.82E+07	6.20E-04	0.43%
118-K-1_P2_Shallow_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.46E+03	--	--	--	2.74E+06	5.32E-04	0.37%
118-K-1_P2_Shallow_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	4.56E+06	1.80E-02	12.46%
118-K-1_P2_Shallow_8	non-Rad	Zinc	7440-66-6	ug/kg	5.83E+04	--	--	--	2.74E+08	2.13E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.86E-07**	**--**	**--**	**1.44E-01**	**--**
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	pCi/g	1.30E+00	3.30E+05	3.95E-10	0.07%	--	--	--
118-K-1_P2_Shallow_8	Rad	Cesium-137	10045-97-3	pCi/g	1.48E-01	9.82E+01	1.51E-07	27.69%	--	--	--
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	pCi/g	3.43E+00	1.02E+03	3.35E-07	61.60%	--	--	--
118-K-1_P2_Shallow_8	Rad	Uranium-233/234	U-233/234	pCi/g	7.60E-01	6.20E+03	1.23E-08	2.25%	--	--	--
118-K-1_P2_Shallow_8	Rad	Uranium-238	U-238	pCi/g	4.89E-01	1.07E+03	4.56E-08	8.37%	--	--	--
Total Radiological Risk Estimate							**5.44E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.23E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_9	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--	--	--	9.12E+08	1.13E-02	9.65%
118-K-1_P2_Shallow_9	non-Rad	Arsenic	7440-38-2	ug/kg	3.10E+03	4.99E+03	6.22E-07	100.00%	2.56E+05	1.21E-02	10.32%
118-K-1_P2_Shallow_9	non-Rad	Barium	7440-39-3	ug/kg	8.45E+04	--	--	--	1.82E+08	4.63E-04	0.39%
118-K-1_P2_Shallow_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.69E+02	3.98E+09	9.27E-14	0.00%	1.82E+06	2.02E-04	0.17%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_9	non-Rad	Boron	7440-42-8	ug/kg	2.63E+03	--	--	--	1.82E+08	1.44E-05	0.01%
118-K-1_P2_Shallow_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.56E+02	5.31E+09	2.94E-14	0.00%	8.33E+05	1.88E-04	0.16%
118-K-1_P2_Shallow_9	non-Rad	Chromium	7440-47-3	ug/kg	1.30E+04	--	--	--	1.37E+09	9.50E-06	0.01%
118-K-1_P2_Shallow_9	non-Rad	Cobalt	7440-48-4	ug/kg	8.48E+03	1.06E+09	7.99E-12	0.00%	2.74E+05	3.10E-02	26.37%
118-K-1_P2_Shallow_9	non-Rad	Copper	7440-50-8	ug/kg	1.71E+04	--	--	--	3.65E+07	4.68E-04	0.40%
118-K-1_P2_Shallow_9	non-Rad	Iron	7439-89-6	ug/kg	2.63E+07	--	--	--	6.39E+08	4.12E-02	35.04%
118-K-1_P2_Shallow_9	non-Rad	Manganese	7439-96-5	ug/kg	4.01E+05	--	--	--	1.28E+08	3.14E-03	2.67%
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	2.74E+05	7.74E-05	0.07%
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.56E+06	1.41E-04	0.12%
118-K-1_P2_Shallow_9	non-Rad	Nickel	7440-02-0	ug/kg	1.17E+04	3.68E+10	3.19E-13	0.00%	1.82E+07	6.43E-04	0.55%
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.31E+05	--	--	--	6.48E+09	3.57E-05	0.03%
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.74E+08	3.65E-06	0.00%
118-K-1_P2_Shallow_9	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.72E+03	--	--	--	2.74E+06	9.94E-04	0.85%
118-K-1_P2_Shallow_9	non-Rad	Vanadium	7440-62-2	ug/kg	6.98E+04	--	--	--	4.56E+06	1.53E-02	13.02%
118-K-1_P2_Shallow_9	non-Rad	Zinc	7440-66-6	ug/kg	5.56E+04	--	--	--	2.74E+08	2.03E-04	0.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.22E-07**	**--**	**--**	**1.18E-01**	**--**
118-K-1_P2_Shallow_9	Rad	Cesium-137	10045-97-3	pCi/g	1.23E-01	9.82E+01	1.25E-07	41.29%	--	--	--
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	pCi/g	5.30E-02	6.39E+01	8.30E-08	27.37%	--	--	--
118-K-1_P2_Shallow_9	Rad	Uranium-233/234	U-233/234	pCi/g	6.13E-01	6.20E+03	9.90E-09	3.26%	--	--	--
118-K-1_P2_Shallow_9	Rad	Uranium-238	U-238	pCi/g	9.14E-01	1.07E+03	8.52E-08	28.08%	--	--	--
Total Radiological Risk Estimate							**3.03E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.25E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.04E+06	--	--	--	9.12E+08	7.72E-03	5.53%
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	3.69E+02	--	--	--	3.65E+05	1.01E-03	0.72%
118-K-1_P2_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	3.98E+03	4.99E+03	7.98E-07	100.00%	2.56E+05	1.56E-02	11.16%
118-K-1_P2_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	8.05E+04	--	--	--	1.82E+08	4.41E-04	0.32%
118-K-1_P2_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	3.18E+02	3.98E+09	7.98E-14	0.00%	1.82E+06	1.74E-04	0.12%
118-K-1_P2_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	8.53E+02	--	--	--	1.82E+08	4.67E-06	0.00%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	1.16E+02	5.31E+09	2.18E-14	0.00%	8.33E+05	1.39E-04	0.10%
118-K-1_P2_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	1.74E+04	--	--	--	1.37E+09	1.27E-05	0.01%
118-K-1_P2_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	8.82E+03	1.06E+09	8.30E-12	0.00%	2.74E+05	3.22E-02	23.09%
118-K-1_P2_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	1.64E+04	--	--	--	3.65E+07	4.49E-04	0.32%
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	3.44E+07	--	--	--	6.39E+08	5.39E-02	38.59%
118-K-1_P2_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	4.64E+05	--	--	--	1.28E+08	3.63E-03	2.60%
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.81E+02	--	--	--	4.56E+06	1.05E-04	0.08%
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	3.68E+10	7.21E-13	0.00%	1.82E+07	1.45E-03	1.04%
118-K-1_P2_Shallow_Focused_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.31E+03	--	--	--	2.74E+06	8.45E-04	0.61%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.56E+06	2.17E-02	15.57%
118-K-1_P2_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	5.30E+04	--	--	--	2.74E+08	1.94E-04	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.98E-07**	**--**	**--**	**1.40E-01**	**--**
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	pCi/g	1.72E+00	3.30E+05	5.22E-10	0.61%	--	--	--
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-233/234	U-233/234	pCi/g	7.99E-01	6.20E+03	1.29E-08	15.03%	--	--	--
118-K-1_P2_Shallow_Focused_3	Rad	Uranium-238	U-238	pCi/g	7.77E-01	1.07E+03	7.24E-08	84.36%	--	--	--
Total Radiological Risk Estimate							**8.58E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.84E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_4	non-Rad	Aluminum	7429-90-5	ug/kg	4.41E+06	--	--	--	9.12E+08	4.83E-03	4.81%
118-K-1_P2_Shallow_Focused_4	non-Rad	Arsenic	7440-38-2	ug/kg	1.56E+03	4.99E+03	3.13E-07	100.00%	2.56E+05	6.10E-03	6.07%
118-K-1_P2_Shallow_Focused_4	non-Rad	Barium	7440-39-3	ug/kg	5.20E+04	--	--	--	1.82E+08	2.85E-04	0.28%
118-K-1_P2_Shallow_Focused_4	non-Rad	Beryllium	7440-41-7	ug/kg	2.85E+02	3.98E+09	7.16E-14	0.00%	1.82E+06	1.56E-04	0.16%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cadmium	7440-43-9	ug/kg	7.33E+01	5.31E+09	1.38E-14	0.00%	8.33E+05	8.80E-05	0.09%
118-K-1_P2_Shallow_Focused_4	non-Rad	Chromium	7440-47-3	ug/kg	2.39E+03	--	--	--	1.37E+09	1.75E-06	0.00%
118-K-1_P2_Shallow_Focused_4	non-Rad	Cobalt	7440-48-4	ug/kg	7.69E+03	1.06E+09	7.24E-12	0.00%	2.74E+05	2.81E-02	27.95%
118-K-1_P2_Shallow_Focused_4	non-Rad	Copper	7440-50-8	ug/kg	1.43E+04	--	--	--	3.65E+07	3.92E-04	0.39%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_4	non-Rad	Iron	7439-89-6	ug/kg	2.74E+07	--	--	--	6.39E+08	4.29E-02	42.68%
118-K-1_P2_Shallow_Focused_4	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.28E+08	2.48E-03	2.46%
118-K-1_P2_Shallow_Focused_4	non-Rad	Molybdenum	7439-98-7	ug/kg	2.61E+02	--	--	--	4.56E+06	5.72E-05	0.06%
118-K-1_P2_Shallow_Focused_4	non-Rad	Nickel	7440-02-0	ug/kg	5.64E+03	3.68E+10	1.53E-13	0.00%	1.82E+07	3.09E-04	0.31%
118-K-1_P2_Shallow_Focused_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.11E+03	--	--	--	2.74E+06	4.06E-04	0.40%
118-K-1_P2_Shallow_Focused_4	non-Rad	Vanadium	7440-62-2	ug/kg	6.50E+04	--	--	--	4.56E+06	1.42E-02	14.18%
118-K-1_P2_Shallow_Focused_4	non-Rad	Zinc	7440-66-6	ug/kg	4.43E+04	--	--	--	2.74E+08	1.62E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.13E-07**	**--**	**--**	**1.01E-01**	**--**
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	pCi/g	3.08E+00	3.30E+05	9.35E-10	2.28%	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-233/234	U-233/234	pCi/g	3.32E-01	6.20E+03	5.36E-09	13.06%	--	--	--
118-K-1_P2_Shallow_Focused_4	Rad	Uranium-238	U-238	pCi/g	3.73E-01	1.07E+03	3.48E-08	84.67%	--	--	--
Total Radiological Risk Estimate							**4.10E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.54E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_5	non-Rad	Aluminum	7429-90-5	ug/kg	5.27E+06	--	--	--	9.12E+08	5.78E-03	5.88%
118-K-1_P2_Shallow_Focused_5	non-Rad	Arsenic	7440-38-2	ug/kg	1.60E+03	4.99E+03	3.21E-07	100.00%	2.56E+05	6.26E-03	6.37%
118-K-1_P2_Shallow_Focused_5	non-Rad	Barium	7440-39-3	ug/kg	5.57E+04	--	--	--	1.82E+08	3.05E-04	0.31%
118-K-1_P2_Shallow_Focused_5	non-Rad	Beryllium	7440-41-7	ug/kg	1.96E+02	3.98E+09	4.92E-14	0.00%	1.82E+06	1.07E-04	0.11%
118-K-1_P2_Shallow_Focused_5	non-Rad	Boron	7440-42-8	ug/kg	4.83E+02	--	--	--	1.82E+08	2.65E-06	0.00%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cadmium	7440-43-9	ug/kg	6.59E+01	5.31E+09	1.24E-14	0.00%	8.33E+05	7.91E-05	0.08%
118-K-1_P2_Shallow_Focused_5	non-Rad	Chromium	7440-47-3	ug/kg	3.90E+03	--	--	--	1.37E+09	2.85E-06	0.00%
118-K-1_P2_Shallow_Focused_5	non-Rad	Cobalt	7440-48-4	ug/kg	7.39E+03	1.06E+09	6.96E-12	0.00%	2.74E+05	2.70E-02	27.48%
118-K-1_P2_Shallow_Focused_5	non-Rad	Copper	7440-50-8	ug/kg	1.42E+04	--	--	--	3.65E+07	3.89E-04	0.40%
118-K-1_P2_Shallow_Focused_5	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	--	--	--	6.39E+08	3.96E-02	40.32%
118-K-1_P2_Shallow_Focused_5	non-Rad	Manganese	7439-96-5	ug/kg	2.93E+05	--	--	--	1.28E+08	2.30E-03	2.34%
118-K-1_P2_Shallow_Focused_5	non-Rad	Molybdenum	7439-98-7	ug/kg	3.28E+02	--	--	--	4.56E+06	7.19E-05	0.07%
118-K-1_P2_Shallow_Focused_5	non-Rad	Nickel	7440-02-0	ug/kg	5.78E+03	3.68E+10	1.57E-13	0.00%	1.82E+07	3.17E-04	0.32%
118-K-1_P2_Shallow_Focused_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.27E+03	--	--	--	2.74E+06	4.62E-04	0.47%
118-K-1_P2_Shallow_Focused_5	non-Rad	Vanadium	7440-62-2	ug/kg	7.03E+04	--	--	--	4.56E+06	1.54E-02	15.69%
118-K-1_P2_Shallow_Focused_5	non-Rad	Zinc	7440-66-6	ug/kg	4.23E+04	--	--	--	2.74E+08	1.55E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.21E-07**	**--**	**--**	**9.82E-02**	**--**
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	pCi/g	1.33E+00	3.30E+05	4.04E-10	0.74%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-233/234	U-233/234	pCi/g	3.73E-01	6.20E+03	6.02E-09	11.09%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-235	15117-96-1	pCi/g	2.60E-02	3.01E+02	8.65E-09	15.93%	--	--	--
118-K-1_P2_Shallow_Focused_5	Rad	Uranium-238	U-238	pCi/g	4.21E-01	1.07E+03	3.92E-08	72.24%	--	--	--
Total Radiological Risk Estimate							**5.43E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.75E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_6	non-Rad	Aluminum	7429-90-5	ug/kg	9.10E+06	--	--	--	9.12E+08	9.97E-03	10.76%
118-K-1_P2_Shallow_Focused_6	non-Rad	Arsenic	7440-38-2	ug/kg	3.74E+03	4.99E+03	7.50E-07	100.00%	2.56E+05	1.46E-02	15.79%
118-K-1_P2_Shallow_Focused_6	non-Rad	Barium	7440-39-3	ug/kg	8.62E+04	--	--	--	1.82E+08	4.72E-04	0.51%
118-K-1_P2_Shallow_Focused_6	non-Rad	Beryllium	7440-41-7	ug/kg	3.02E+02	3.98E+09	7.58E-14	0.00%	1.82E+06	1.65E-04	0.18%
118-K-1_P2_Shallow_Focused_6	non-Rad	Boron	7440-42-8	ug/kg	1.39E+03	--	--	--	1.82E+08	7.62E-06	0.01%
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	2.03E+04	--	--	--	1.37E+09	1.48E-05	0.02%
118-K-1_P2_Shallow_Focused_6	non-Rad	Cobalt	7440-48-4	ug/kg	6.71E+03	1.06E+09	6.32E-12	0.00%	2.74E+05	2.45E-02	26.45%
118-K-1_P2_Shallow_Focused_6	non-Rad	Copper	7440-50-8	ug/kg	1.72E+04	--	--	--	3.65E+07	4.71E-04	0.51%
118-K-1_P2_Shallow_Focused_6	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	--	--	--	6.39E+08	2.82E-02	30.41%
118-K-1_P2_Shallow_Focused_6	non-Rad	Manganese	7439-96-5	ug/kg	3.15E+05	--	--	--	1.28E+08	2.47E-03	2.66%
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	3.68E+10	5.55E-13	0.00%	1.82E+07	1.12E-03	1.21%
118-K-1_P2_Shallow_Focused_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2.44E+03	--	--	--	2.74E+06	8.90E-04	0.96%
118-K-1_P2_Shallow_Focused_6	non-Rad	Vanadium	7440-62-2	ug/kg	4.39E+04	--	--	--	4.56E+06	9.62E-03	10.38%
118-K-1_P2_Shallow_Focused_6	non-Rad	Zinc	7440-66-6	ug/kg	4.03E+04	--	--	--	2.74E+08	1.47E-04	0.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.50E-07**	**--**	**--**	**9.27E-02**	**--**
118-K-1_P2_Shallow_Focused_6	Rad	Cesium-137	10045-97-3	pCi/g	6.27E-01	9.82E+01	6.38E-07	34.19%	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	pCi/g	1.17E+01	1.02E+03	1.14E-06	61.25%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-233/234	U-233/234	pCi/g	5.50E-01	6.20E+03	8.88E-09	0.48%	--	--	--
118-K-1_P2_Shallow_Focused_6	Rad	Uranium-238	U-238	pCi/g	8.18E-01	1.07E+03	7.62E-08	4.08%	--	--	--
Total Radiological Risk Estimate							**1.87E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.62E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_8	non-Rad	Aluminum	7429-90-5	ug/kg	6.68E+06	--	--	--	9.12E+08	7.32E-03	6.32%
118-K-1_P2_Shallow_Focused_8	non-Rad	Arsenic	7440-38-2	ug/kg	4.16E+03	4.99E+03	8.34E-07	100.00%	2.56E+05	1.63E-02	14.05%
118-K-1_P2_Shallow_Focused_8	non-Rad	Barium	7440-39-3	ug/kg	6.77E+04	--	--	--	1.82E+08	3.71E-04	0.32%
118-K-1_P2_Shallow_Focused_8	non-Rad	Beryllium	7440-41-7	ug/kg	2.80E+02	3.98E+09	7.03E-14	0.00%	1.82E+06	1.53E-04	0.13%
118-K-1_P2_Shallow_Focused_8	non-Rad	Boron	7440-42-8	ug/kg	7.96E+02	--	--	--	1.82E+08	4.36E-06	0.00%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	5.31E+09	1.92E-14	0.00%	8.33E+05	1.22E-04	0.11%
118-K-1_P2_Shallow_Focused_8	non-Rad	Chromium	7440-47-3	ug/kg	7.04E+03	--	--	--	1.37E+09	5.14E-06	0.00%
118-K-1_P2_Shallow_Focused_8	non-Rad	Cobalt	7440-48-4	ug/kg	7.22E+03	1.06E+09	6.80E-12	0.00%	2.74E+05	2.64E-02	22.77%
118-K-1_P2_Shallow_Focused_8	non-Rad	Copper	7440-50-8	ug/kg	1.34E+04	--	--	--	3.65E+07	3.67E-04	0.32%
118-K-1_P2_Shallow_Focused_8	non-Rad	Iron	7439-89-6	ug/kg	2.73E+07	--	--	--	6.39E+08	4.27E-02	36.90%
118-K-1_P2_Shallow_Focused_8	non-Rad	Manganese	7439-96-5	ug/kg	3.69E+05	--	--	--	1.28E+08	2.89E-03	2.50%
118-K-1_P2_Shallow_Focused_8	non-Rad	Molybdenum	7439-98-7	ug/kg	4.28E+02	--	--	--	4.56E+06	9.38E-05	0.08%
118-K-1_P2_Shallow_Focused_8	non-Rad	Nickel	7440-02-0	ug/kg	8.98E+03	3.68E+10	2.44E-13	0.00%	1.82E+07	4.92E-04	0.42%
118-K-1_P2_Shallow_Focused_8	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1.20E+03	--	--	--	2.74E+06	4.38E-04	0.38%
118-K-1_P2_Shallow_Focused_8	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	4.56E+06	1.80E-02	15.54%
118-K-1_P2_Shallow_Focused_8	non-Rad	Zinc	7440-66-6	ug/kg	4.83E+04	--	--	--	2.74E+08	1.76E-04	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.34E-07**	**--**	**--**	**1.16E-01**	**--**
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-233/234	U-233/234	pCi/g	3.52E-01	6.20E+03	5.68E-09	13.14%	--	--	--
118-K-1_P2_Shallow_Focused_8	Rad	Uranium-238	U-238	pCi/g	4.03E-01	1.07E+03	3.75E-08	86.86%	--	--	--
Total Radiological Risk Estimate							**4.32E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.77E-07**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	100.00%	2.56E+05	1.10E-02	14.31%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Barium	7440-39-3	ug/kg	6.88E+04	--	--	--	1.82E+08	3.77E-04	0.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Beryllium	7440-41-7	ug/kg	3.73E+02	3.98E+09	9.37E-14	0.00%	1.82E+06	2.04E-04	0.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Boron	7440-42-8	ug/kg	2.65E+03	--	--	--	1.82E+08	1.45E-05	0.02%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cadmium	7440-43-9	ug/kg	1.07E+02	5.31E+09	2.01E-14	0.00%	8.33E+05	1.28E-04	0.17%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Chromium	7440-47-3	ug/kg	8.24E+03	--	--	--	1.37E+09	6.02E-06	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Cobalt	7440-48-4	ug/kg	1.16E+04	1.06E+09	1.09E-11	0.00%	2.74E+05	4.22E-02	55.02%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Copper	7440-50-8	ug/kg	1.83E+04	--	--	--	3.65E+07	5.01E-04	0.65%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Manganese	7439-96-5	ug/kg	3.89E+05	--	--	--	1.28E+08	3.05E-03	3.97%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	3.68E+10	2.98E-13	0.00%	1.82E+07	6.01E-04	0.78%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Nitrate	14797-55-8	ug/kg	5.00E+03	--	--	--	6.48E+09	7.72E-07	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	4.56E+06	2.24E-04	0.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	ug/kg	3.13E+04	--	--	--	5.48E+08	5.72E-05	0.07%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	ug/kg	5.56E+02	--	--	--	5.48E+08	1.02E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Uranium	7440-61-1	ug/kg	5.16E+02	--	--	--	2.74E+06	1.89E-04	0.25%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Vanadium	7440-62-2	ug/kg	8.21E+04	--	--	--	4.56E+06	1.80E-02	23.45%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Zinc	7440-66-6	ug/kg	5.13E+04	--	--	--	2.74E+08	1.87E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-07**	**--**	**--**	**7.67E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	ug/kg	6.11E+02	--	--	--	3.65E+05	1.67E-03	2.03%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Arsenic	7440-38-2	ug/kg	4.05E+03	4.99E+03	8.13E-07	100.00%	2.56E+05	1.59E-02	19.23%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Barium	7440-39-3	ug/kg	7.39E+04	--	--	--	1.82E+08	4.05E-04	0.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Beryllium	7440-41-7	ug/kg	3.81E+02	3.98E+09	9.57E-14	0.00%	1.82E+06	2.09E-04	0.25%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Boron	7440-42-8	ug/kg	2.05E+03	--	--	--	1.82E+08	1.12E-05	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cadmium	7440-43-9	ug/kg	1.02E+02	5.31E+09	1.92E-14	0.00%	8.33E+05	1.22E-04	0.15%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Chromium	7440-47-3	ug/kg	1.03E+04	--	--	--	1.37E+09	7.50E-06	0.01%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Cobalt	7440-48-4	ug/kg	1.14E+04	1.06E+09	1.08E-11	0.00%	2.74E+05	4.18E-02	50.63%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Copper	7440-50-8	ug/kg	1.92E+04	--	--	--	3.65E+07	5.26E-04	0.64%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Manganese	7439-96-5	ug/kg	4.52E+05	--	--	--	1.28E+08	3.54E-03	4.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	2.74E+05	3.25E-04	0.39%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nickel	7440-02-0	ug/kg	1.26E+04	3.68E+10	3.42E-13	0.00%	1.82E+07	6.89E-04	0.84%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.50E+04	--	--	--	6.48E+09	3.86E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Selenium	7782-49-2	ug/kg	7.34E+02	--	--	--	4.56E+06	1.61E-04	0.20%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	ug/kg	3.74E+04	--	--	--	5.48E+08	6.83E-05	0.08%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	ug/kg	5.87E+02	--	--	--	5.48E+08	1.07E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Uranium	7440-61-1	ug/kg	5.99E+02	--	--	--	2.74E+06	2.19E-04	0.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Vanadium	7440-62-2	ug/kg	7.62E+04	--	--	--	4.56E+06	1.67E-02	20.24%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Zinc	7440-66-6	ug/kg	5.46E+04	--	--	--	2.74E+08	1.99E-04	0.24%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.13E-07**	**--**	**--**	**8.25E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.13E-07**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.57E+03	4.99E+03	5.15E-07	100.00%	2.56E+05	1.01E-02	12.90%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.03E+04	--	--	--	1.82E+08	3.85E-04	0.49%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	4.49E+02	3.98E+09	1.13E-13	0.00%	1.82E+06	2.46E-04	0.32%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.27E+03	--	--	--	1.82E+08	6.97E-06	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7.53E+03	--	--	--	1.37E+09	5.50E-06	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.21E+04	1.06E+09	1.14E-11	0.00%	2.74E+05	4.41E-02	56.59%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.93E+04	--	--	--	3.65E+07	5.29E-04	0.68%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1.91E+03	--	--	--	5.47E+07	3.49E-05	0.04%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	4.11E+07	2.63E-12	0.00%	2.74E+06	3.95E-05	0.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.03E+05	--	--	--	1.28E+08	3.16E-03	4.05%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.59E+02	--	--	--	4.56E+06	1.22E-04	0.16%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.02E+04	3.68E+10	2.77E-13	0.00%	1.82E+07	5.58E-04	0.72%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	1.03E+04	--	--	--	6.48E+09	1.59E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	4.56E+06	2.45E-04	0.31%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	5.48E+08	5.78E-05	0.07%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.68E+02	--	--	--	5.48E+08	1.04E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	5.61E+02	--	--	--	2.74E+06	2.05E-04	0.26%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	8.20E+04	--	--	--	4.56E+06	1.80E-02	23.07%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.54E+04	--	--	--	2.74E+08	2.03E-04	0.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.15E-07**	**--**	**--**	**7.79E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.15E-07**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1.30E+02	--	--	--	3.65E+05	3.56E-04	0.47%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2.80E+03	4.99E+03	5.62E-07	100.00%	2.56E+05	1.10E-02	14.31%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.01E+05	--	--	--	1.82E+08	5.53E-04	0.72%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	4.20E+02	3.98E+09	1.05E-13	0.00%	1.82E+06	2.30E-04	0.30%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	1.82E+08	2.79E-05	0.04%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	8.70E+01	5.31E+09	1.64E-14	0.00%	8.33E+05	1.04E-04	0.14%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6.40E+03	--	--	--	1.37E+09	4.68E-06	0.01%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	1.06E+04	1.06E+09	9.98E-12	0.00%	2.74E+05	3.87E-02	50.56%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.49E+04	--	--	--	3.65E+07	9.56E-04	1.25%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.16E+05	--	--	--	1.28E+08	2.48E-03	3.23%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.10E+02	--	--	--	4.56E+06	1.34E-04	0.17%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8.70E+03	3.68E+10	2.37E-13	0.00%	1.82E+07	4.77E-04	0.62%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	4.56E+06	4.38E-04	0.57%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	8.20E+01	--	--	--	4.56E+06	1.80E-05	0.02%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	4.39E+04	--	--	--	5.48E+08	8.02E-05	0.10%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	6.00E+02	--	--	--	5.48E+08	1.10E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	8.50E+02	--	--	--	2.74E+06	3.11E-04	0.41%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	4.56E+06	2.05E-02	26.79%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	6.26E+04	--	--	--	2.74E+08	2.29E-04	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.62E-07**	**--**	**--**	**7.66E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.62E-07**	**--**	**--**	**--**	**--**
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	6.70E+02	--	--	--	2.09E+08	3.20E-06	0.01%
128-K-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.70E+03	4.99E+03	7.42E-07	14.66%	2.56E+05	1.45E-02	47.31%
128-K-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.15E+04	--	--	--	1.82E+08	3.92E-04	1.28%
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	1.34E+04	6.20E-07	12.24%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	1.34E+03	2.16E-06	42.78%	2.09E+05	1.39E-02	45.29%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	1.34E+04	4.55E-07	9.00%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	1.34E+05	3.06E-08	0.60%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	4.52E+05	1.92E-09	0.04%	1.47E+07	5.90E-05	0.19%
128-K-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	3.50E+02	5.31E+09	6.59E-14	0.00%	8.33E+05	4.20E-04	1.37%
128-K-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.35E+04	--	--	--	1.37E+09	9.86E-06	0.03%
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	1.34E+06	8.21E-09	0.16%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	1.34E+03	8.96E-07	17.70%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.10E+04	--	--	--	2.79E+07	3.94E-04	1.29%
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	4.11E+07	1.17E-11	0.00%	2.74E+06	1.75E-04	0.57%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	1.34E+04	1.42E-07	2.80%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	2.74E+05	1.10E-04	0.36%
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.10E+04	--	--	--	2.09E+07	5.26E-04	1.72%
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	4.56E+06	1.75E-04	0.57%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.06E-06**	**--**	**--**	**3.06E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.06E-06**	**--**	**--**	**--**	**--**
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.80E+01	--	--	--	4.18E+07	4.30E-07	0.00%
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	7.90E+08	1.29E-08	0.00%
128-K-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.07E+06	--	--	--	9.12E+08	8.84E-03	8.61%
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.06E+01	--	--	--	2.09E+08	5.08E-08	0.00%
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.00E+02	--	--	--	3.65E+05	1.37E-03	1.33%
128-K-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.26E+03	4.99E+03	6.54E-07	94.38%	2.56E+05	1.28E-02	12.43%
128-K-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.90E+04	--	--	--	1.82E+08	3.78E-04	0.37%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	1.34E+04	1.99E-09	0.29%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	1.34E+03	2.09E-08	3.02%	2.09E+05	1.34E-04	0.13%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	1.34E+04	2.47E-09	0.36%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	1.34E+05	6.99E-11	0.01%	--	--	--
128-K-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	5.19E+02	3.98E+09	1.30E-13	0.00%	1.82E+06	2.84E-04	0.28%
128-K-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.93E+03	--	--	--	1.82E+08	1.06E-05	0.01%
128-K-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.53E+02	5.31E+09	2.89E-14	0.00%	8.33E+05	1.84E-04	0.18%
128-K-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.09E+04	--	--	--	1.37E+09	7.98E-06	0.01%
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	1.34E+06	1.04E-11	0.00%	--	--	--
128-K-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.02E+03	1.06E+09	7.55E-12	0.00%	2.74E+05	2.93E-02	28.52%
128-K-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.37E+04	--	--	--	3.65E+07	6.49E-04	0.63%
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	1.34E+03	1.19E-08	1.72%	--	--	--
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4.08E+01	--	--	--	2.79E+07	1.46E-06	0.00%
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.40E+01	--	--	--	2.79E+07	5.02E-07	0.00%
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	1.34E+04	1.35E-09	0.20%	--	--	--
128-K-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	--	--	--	6.39E+08	3.44E-02	33.45%
128-K-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.25E+05	--	--	--	1.28E+08	2.54E-03	2.48%
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	2.74E+05	8.04E-05	0.08%
128-K-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.50E+02	--	--	--	4.56E+06	5.48E-05	0.05%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	7.11E+04	2.25E-10	0.03%	2.26E+06	7.08E-06	0.01%
128-K-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.10E+04	3.68E+10	3.00E-13	0.00%	1.82E+07	6.04E-04	0.59%
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.19E+01	--	--	--	2.09E+07	2.00E-06	0.00%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	4.56E+06	2.13E-04	0.21%

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	4.91E+04	--	--	--	4.56E+06	1.08E-02	10.47%
128-K-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.95E+04	--	--	--	2.74E+08	1.81E-04	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.93E-07**	**--**	**--**	**1.03E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.93E-07**	**--**	**--**	**--**	**--**
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	7.90E+08	1.27E-08	0.00%
128-K-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.26E+06	--	--	--	9.12E+08	1.01E-02	9.95%
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+02	--	--	--	3.65E+05	1.12E-03	1.10%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	2.91E+03	1.86E-09	0.27%	1.37E+04	3.94E-04	0.39%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	2.91E+03	1.72E-08	2.49%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3.30E+03	4.99E+03	6.62E-07	95.94%	2.56E+05	1.29E-02	12.66%
128-K-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	7.60E+04	--	--	--	1.82E+08	4.16E-04	0.41%
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	1.34E+04	7.46E-10	0.11%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	1.34E+03	7.09E-09	1.03%	2.09E+05	4.54E-05	0.04%
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.34E+04	1.05E-09	0.15%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	1.34E+05	5.82E-11	0.01%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	5.40E+02	3.98E+09	1.36E-13	0.00%	1.82E+06	2.96E-04	0.29%
128-K-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3.30E+03	--	--	--	1.82E+08	1.81E-05	0.02%
128-K-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.90E+02	5.31E+09	3.58E-14	0.00%	8.33E+05	2.28E-04	0.22%
128-K-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.46E+04	--	--	--	1.37E+09	1.07E-05	0.01%
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.34E+06	8.96E-12	0.00%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.40E+03	1.06E+09	6.97E-12	0.00%	2.74E+05	2.70E-02	26.51%
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	7.36E+04	--	--	--	3.65E+07	2.02E-03	1.98%
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	2.79E+07	1.04E-06	0.00%
128-K-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	--	--	--	6.39E+08	3.30E-02	32.39%
128-K-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.32E+05	--	--	--	1.28E+08	2.60E-03	2.55%
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.74E+05	3.65E-04	0.36%
128-K-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3.00E+02	--	--	--	4.56E+06	6.58E-05	0.06%
128-K-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.43E+04	3.68E+10	3.89E-13	0.00%	1.82E+07	7.84E-04	0.77%
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.80E+01	--	--	--	2.09E+07	8.60E-07	0.00%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	4.56E+06	2.41E-04	0.24%
128-K-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	4.53E+04	--	--	--	4.56E+06	9.93E-03	9.74%
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	8.80E+04	--	--	--	2.74E+08	3.21E-04	0.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.90E-07**	**--**	**--**	**1.02E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.90E-07**	**--**	**--**	**--**	**--**
132-KE-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2.77E+03	4.99E+03	5.55E-07	100.00%	2.56E+05	1.08E-02	16.56%
132-KE-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	6.08E+04	--	--	--	1.82E+08	3.33E-04	0.51%
132-KE-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.01E+02	3.98E+09	7.56E-14	0.00%	1.82E+06	1.65E-04	0.25%
132-KE-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	7.67E+01	5.31E+09	1.44E-14	0.00%	8.33E+05	9.20E-05	0.14%
132-KE-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6.77E+03	--	--	--	1.37E+09	4.95E-06	0.01%
132-KE-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9.27E+03	1.06E+09	8.73E-12	0.00%	2.74E+05	3.39E-02	51.74%
132-KE-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	1.65E+04	--	--	--	3.65E+07	4.52E-04	0.69%
132-KE-1_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	6.97E+03	--	--	--	1.83E+06	3.82E-03	5.84%
132-KE-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.08E+05	--	--	--	1.28E+08	2.41E-03	3.69%
132-KE-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	3.97E+02	--	--	--	4.56E+06	8.70E-05	0.13%
132-KE-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8.34E+03	3.68E+10	2.27E-13	0.00%	1.82E+07	4.57E-04	0.70%
132-KE-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	2.67E+02	--	--	--	4.56E+06	5.85E-05	0.09%
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.15E+04	--	--	--	5.48E+08	5.75E-05	0.09%
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.94E+02	--	--	--	5.48E+08	9.02E-07	0.00%
132-KE-1_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	4.67E+02	--	--	--	2.74E+06	1.71E-04	0.26%
132-KE-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	5.69E+04	--	--	--	4.56E+06	1.25E-02	19.06%
132-KE-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	4.48E+04	--	--	--	2.74E+08	1.64E-04	0.25%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.56E-07**	**--**	**--**	**6.54E-02**	**--**
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	4.00E-02	2.77E+03	1.44E-09	0.32%	--	--	--

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.45E+01	3.30E+05	4.40E-09	0.97%	--	--	--
132-KE-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	4.20E-01	9.82E+01	4.28E-07	94.00%	--	--	--
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.10E-02	4.04E+03	1.01E-09	0.22%	--	--	--
132-KE-1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.50E-01	6.20E+03	2.42E-09	0.53%	--	--	--
132-KE-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	1.50E-02	3.01E+02	4.99E-09	1.10%	--	--	--
132-KE-1_Shallow	Rad	Uranium-238	U-238	pCi/g	1.40E-01	1.07E+03	1.30E-08	2.87%	--	--	--
Total Radiological Risk Estimate							**4.55E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.01E-06**	**--**	**--**	**--**	**--**
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	2.91E+03	4.12E-09	0.59%	1.37E+04	8.76E-04	1.06%
1607-K3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3.49E+03	4.99E+03	7.00E-07	99.41%	2.56E+05	1.37E-02	16.53%
1607-K3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.84E+04	--	--	--	1.82E+08	4.30E-04	0.52%
1607-K3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	3.84E+02	3.98E+09	9.64E-14	0.00%	1.82E+06	2.10E-04	0.25%
1607-K3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.63E+03	--	--	--	1.82E+08	8.93E-06	0.01%
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.22E+04	--	--	--	1.37E+09	1.62E-05	0.02%
1607-K3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	1.23E+04	1.06E+09	1.16E-11	0.00%	2.74E+05	4.49E-02	54.38%
1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.08E+04	--	--	--	3.65E+07	5.70E-04	0.69%
1607-K3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	4.40E+05	--	--	--	1.28E+08	3.45E-03	4.17%
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	2.74E+05	2.14E-04	0.26%
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.56E+06	1.21E-04	0.15%
1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	1.88E+04	3.68E+10	5.11E-13	0.00%	1.82E+07	1.03E-03	1.25%
1607-K3_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8.59E+03	--	--	--	6.48E+09	1.33E-06	0.00%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	4.56E+06	1.94E-04	0.24%
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.55E+04	--	--	--	5.48E+08	6.48E-05	0.08%
1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.49E+02	--	--	--	5.48E+08	1.00E-06	0.00%
1607-K3_Shallow	non-Rad	Uranium	7440-61-1	ug/kg	6.68E+02	--	--	--	2.74E+06	2.44E-04	0.30%
1607-K3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	7.46E+04	--	--	--	4.56E+06	1.64E-02	19.79%
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.89E+04	--	--	--	2.74E+08	2.52E-04	0.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.04E-07**	**--**	**--**	**8.26E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.04E-07**	**--**	**--**	**--**	**--**
600-29_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.29E+06	--	--	--	9.12E+08	1.02E-02	7.23%
600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.20E+02	--	--	--	3.65E+05	1.42E-03	1.01%
600-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1.04E+04	4.99E+03	2.08E-06	97.64%	2.56E+05	4.05E-02	28.80%
600-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	7.52E+04	--	--	--	1.82E+08	4.12E-04	0.29%
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	1.34E+03	5.00E-08	2.35%	2.09E+05	3.20E-04	0.23%
600-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	6.53E+02	3.98E+09	1.64E-13	0.00%	1.82E+06	3.58E-04	0.25%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	4.52E+05	2.28E-10	0.01%	1.47E+07	6.98E-06	0.00%
600-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.76E+03	--	--	--	1.82E+08	9.64E-06	0.01%
600-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	1.05E+02	5.31E+09	1.98E-14	0.00%	8.33E+05	1.26E-04	0.09%
600-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	1.18E+04	--	--	--	1.37E+09	8.63E-06	0.01%
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	1.34E+06	3.43E-11	0.00%	--	--	--
600-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8.22E+03	1.06E+09	7.74E-12	0.00%	2.74E+05	3.00E-02	21.34%
600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.62E+04	--	--	--	3.65E+07	7.19E-04	0.51%
600-29_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	--	--	--	6.39E+08	3.61E-02	25.63%
600-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	3.49E+05	--	--	--	1.28E+08	2.73E-03	1.94%
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	2.74E+05	7.89E-05	0.06%
600-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	2.74E+02	--	--	--	4.56E+06	6.01E-05	0.04%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	3.68E+10	1.02E-12	0.00%	1.82E+07	2.05E-03	1.46%
600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	8.70E+01	--	--	--	2.09E+07	4.16E-06	0.00%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	4.56E+06	2.16E-04	0.15%
600-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	6.93E+04	--	--	--	4.56E+06	1.52E-02	10.80%
600-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	5.38E+04	--	--	--	2.74E+08	1.96E-04	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.13E-06**	**--**	**--**	**1.41E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.13E-06**	**--**	**--**	**--**	**--**

Table B-17. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units with Background Contributions

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
600-29_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	--	--	--	9.12E+08	1.08E-02	8.67%
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.50E+02	--	--	--	3.65E+05	1.23E-03	0.99%
600-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6.80E+03	4.99E+03	1.36E-06	92.03%	2.56E+05	2.66E-02	21.42%
600-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	6.85E+04	--	--	--	1.82E+08	3.75E-04	0.30%
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	1.34E+04	5.37E-09	0.36%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.34E+03	8.96E-08	6.05%	2.09E+05	5.74E-04	0.46%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.34E+04	1.57E-08	1.06%	--	--	--
600-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	6.20E+02	3.98E+09	1.56E-13	0.00%	1.82E+06	3.40E-04	0.27%
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	4.52E+05	2.65E-10	0.02%	1.47E+07	8.14E-06	0.01%
600-29_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2.00E+03	--	--	--	1.82E+08	1.10E-05	0.01%
600-29_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.60E+02	5.31E+09	3.01E-14	0.00%	8.33E+05	1.92E-04	0.15%
600-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	1.26E+04	--	--	--	1.37E+09	9.21E-06	0.01%
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	1.34E+06	6.72E-11	0.00%	--	--	--
600-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7.90E+03	1.06E+09	7.44E-12	0.00%	2.74E+05	2.89E-02	23.23%
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.89E+04	--	--	--	3.65E+07	7.92E-04	0.64%
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	2.40E+02	--	--	--	7.37E+07	3.25E-06	0.00%
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.00E+02	--	--	--	2.79E+07	3.58E-06	0.00%
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	1.34E+04	7.17E-09	0.48%	--	--	--
600-29_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.43E+07	--	--	--	6.39E+08	3.80E-02	30.63%
600-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	3.47E+05	--	--	--	1.28E+08	2.72E-03	2.19%
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.74E+05	5.84E-05	0.05%
600-29_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	2.90E+02	--	--	--	4.56E+06	6.36E-05	0.05%
600-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	1.33E+04	3.68E+10	3.62E-13	0.00%	1.82E+07	7.29E-04	0.59%
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	9.60E+01	--	--	--	2.09E+07	4.59E-06	0.00%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	4.56E+06	2.06E-04	0.17%
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	1.80E+02	--	--	--	4.56E+06	3.95E-05	0.03%
600-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	5.62E+04	--	--	--	4.56E+06	1.23E-02	9.92%
600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	6.77E+04	--	--	--	2.74E+08	2.47E-04	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.48E-06**	**--**	**--**	**1.24E-01**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.48E-06**	**--**	**--**	**--**	**--**

Table B-18. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	7.33E-07	--	0.00E+00	--	7.33E-07	1.01E-01	--
100-K-102_Shallow_2	6.08E-07	--	0.00E+00	--	6.08E-07	6.71E-02	--
100-K-102_Shallow_Focused	9.04E-07	--	0.00E+00	--	9.04E-07	9.67E-02	--
100-K-105_Shallow_1	5.01E-07	--	3.30E-09	--	5.05E-07	9.10E-02	--
100-K-105_Shallow_2	4.41E-07	--	0.00E+00	--	4.41E-07	8.61E-02	--
100-K-105_Shallow_3	5.01E-07	--	0.00E+00	--	5.01E-07	8.98E-02	--
100-K-106_Shallow	1.99E-07	--	0.00E+00	--	1.99E-07	3.73E-02	--
100-K-106_Shallow_Focused_1	2.65E-07	--	0.00E+00	--	2.65E-07	4.84E-02	--
100-K-106_Shallow_Focused_2	2.97E-07	--	0.00E+00	--	2.97E-07	6.05E-02	--
100-K-106_Shallow_Focused_3	3.51E-07	--	0.00E+00	--	3.51E-07	5.91E-02	--
100-K-106_Shallow_Focused_4	2.03E-07	--	0.00E+00	--	2.03E-07	4.54E-02	--
100-K-106_Shallow_Focused_5	3.47E-07	--	0.00E+00	--	3.47E-07	5.61E-02	--
100-K-106_Shallow_Focused_6	4.01E-07	--	0.00E+00	--	4.01E-07	5.74E-02	--
100-K-109_Shallow	4.39E-07	--	2.21E-08	--	4.61E-07	6.31E-02	--
100-K-109_Shallow_Focused	3.81E-07	--	0.00E+00	--	3.81E-07	6.62E-02	--
100-K-110_Shallow	1.74E-06	Arsenic (1.74E-06)	9.63E-08	--	1.84E-06	1.90E-01	--
100-K-110_Shallow_focused	3.52E-13	--	0.00E+00	--	3.52E-13	2.65E-03	--
100-K-14, 126-KE-2_Shallow	4.25E-07	--	0.00E+00	--	4.25E-07	8.92E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	8.69E-07	--	0.00E+00	--	8.69E-07	8.88E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	3.21E-07	--	0.00E+00	--	3.21E-07	6.45E-02	--
100-K-29_Shallow_Focused	4.95E-07	--	0.00E+00	--	4.95E-07	1.80E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	7.71E-07	--	5.62E-07	--	1.33E-06	6.53E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	3.42E-07	--	7.88E-08	--	4.21E-07	4.72E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	4.24E-07	--	2.11E-08	--	4.45E-07	5.84E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	4.21E-07	--	2.30E-08	--	4.44E-07	4.96E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	5.82E-07	--	1.90E-08	--	6.01E-07	5.11E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	6.99E-07	--	2.70E-08	--	7.26E-07	5.73E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	8.75E-07	--	2.17E-08	--	8.97E-07	5.64E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	5.72E-07	--	2.10E-08	--	5.93E-07	5.45E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	5.70E-07	--	2.40E-08	--	5.94E-07	5.41E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	6.20E-07	--	2.76E-08	--	6.48E-07	5.48E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	7.06E-07	--	2.30E-08	--	7.29E-07	5.33E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	5.50E-07	--	5.73E-07	--	1.12E-06	5.72E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	2.59E-07	--	2.92E-08	--	2.88E-07	4.20E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	5.59E-07	--	2.44E-08	--	5.84E-07	4.37E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	3.64E-07	--	2.18E-08	--	3.86E-07	4.72E-02	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	8.78E-07	--	7.95E-08	--	9.58E-07	6.62E-02	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	5.47E-07	--	2.18E-06	--	2.73E-06	6.35E-02	--

Table B-18. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	4.15E-07	--	3.56E-08	--	4.50E-07	7.38E-02	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	6.76E-07	--	2.08E-06	--	2.76E-06	6.88E-02	--
100-K-3_Shallow_1	6.40E-07	--	9.44E-07	--	1.58E-06	6.95E-02	--
100-K-3_Shallow_2	7.48E-07	--	1.15E-07	--	8.63E-07	6.42E-02	--
100-K-30_Shallow_Focused	5.21E-07	--	0.00E+00	--	5.21E-07	7.55E-02	--
100-K-31_Shallow_Focused	5.62E-07	--	0.00E+00	--	5.62E-07	3.20E-02	--
100-K-32_Shallow_Focused	6.02E-07	--	0.00E+00	--	6.02E-07	6.29E-02	--
100-K-33_Shallow_Focused	1.34E-06	Arsenic (1.34E-06)	0.00E+00	--	1.34E-06	5.34E-02	--
100-K-34, 100-K-102, 1607-K3_Shallow	7.36E-07	--	0.00E+00	--	7.36E-07	8.01E-02	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	2.97E-06	Arsenic (2.97E-06)	0.00E+00	--	2.97E-06	1.51E-01	--
100-K-34_Shallow	3.25E-07	--	0.00E+00	--	3.25E-07	7.49E-02	--
100-K-36_Shallow	4.89E-07	--	1.80E-08	--	5.07E-07	5.32E-02	--
100-K-4_Shallow	6.84E-07	--	1.96E-07	--	8.80E-07	6.85E-02	--
100-K-50, 1607-K2_Shallow	6.88E-07	--	0.00E+00	--	6.88E-07	7.24E-02	--
100-K-53_Shallow	1.97E-06	Arsenic (1.97E-06)	1.18E-06	--	3.16E-06	1.03E-01	--
100-K-55:1_Shallow	0.00E+00	--	2.52E-06	--	2.52E-06	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	3.18E-06	--	3.18E-06	8.45E-04	--
100-K-56:1_Shallow	0.00E+00	--	6.49E-06	--	6.49E-06	0.00E+00	--
100-K-56:1_Shallow_Focused	2.28E-11	--	5.92E-06	--	5.92E-06	8.70E-04	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	4.69E-07	--	2.46E-06	--	2.93E-06	5.87E-02	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	5.87E-07	--	1.67E-05	--	1.73E-05	7.74E-02	--
100-K-6_Shallow	4.57E-07	--	5.60E-07	--	1.02E-06	5.67E-02	--
100-K-62_Shallow	2.59E-07	--	9.09E-07	--	1.17E-06	5.12E-02	--
100-K-63_Shallow_1	6.03E-07	--	9.03E-07	--	1.51E-06	6.37E-02	--
100-K-63_Shallow_2	7.77E-07	--	8.12E-07	--	1.59E-06	6.07E-02	--
100-K-77_Shallow	2.00E-06	Arsenic (1.98E-06)	4.78E-07	--	2.47E-06	1.10E-01	--
100-K-78_Shallow_Focused	8.68E-07	--	9.94E-07	--	1.86E-06	9.80E-02	--
100-K-84_Shallow	1.28E-06	Arsenic (1.28E-06)	0.00E+00	--	1.28E-06	1.26E-01	--
100-K-85_Shallow_Focused	5.62E-07	--	0.00E+00	--	5.62E-07	1.02E-01	--
100-K-86_Shallow_Focused	5.70E-07	--	0.00E+00	--	5.70E-07	1.15E-01	--
100-K-88_Shallow_Focused	1.82E-06	Arsenic (1.82E-06)	0.00E+00	--	1.82E-06	9.62E-02	--
100-K-89, 600-29_Shallow	8.56E-07	--	0.00E+00	--	8.56E-07	1.18E-01	--
100-K-89, 600-29_Shallow_Focused	3.20E-06	Arsenic (3.09E-06)	0.00E+00	--	3.20E-06	1.77E-01	--
100-K-90_Shallow_Focused	1.57E-12	--	0.00E+00	--	1.57E-12	1.77E-02	--
100-K-91_Shallow_Focused	4.61E-07	--	0.00E+00	--	4.61E-07	9.20E-02	--
100-K-92_Shallow_Focused	5.82E-07	--	0.00E+00	--	5.82E-07	1.01E-01	--
100-K-95_Shallow	2.95E-08	--	0.00E+00	--	2.95E-08	1.46E-04	--
116-K-1_Shallow	6.33E-12	--	1.71E-06	--	1.71E-06	1.05E-04	--

Table B-18. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
116-K-2_Shallow_1	1.63E-11	--	1.26E-06	--	1.26E-06	9.11E-04	--
116-K-2_Shallow_2	6.09E-12	--	3.40E-06	--	3.40E-06	8.18E-04	--
116-KE-4_Shallow	2.95E-11	--	1.77E-06	--	1.77E-06	1.05E-03	--
116-KE-5_Shallow_Focused	7.42E-07	--	0.00E+00	--	7.42E-07	1.58E-02	--
116-KW-3_Shallow	1.32E-11	--	3.19E-06	--	3.19E-06	9.01E-04	--
116-KW-4_Shallow_Focused	5.21E-07	--	0.00E+00	--	5.21E-07	1.06E-02	--
118-K-1_P1_Shallow_1	5.62E-07	--	0.00E+00	--	5.62E-07	1.16E-01	--
118-K-1_P1_Shallow_2	8.60E-07	--	7.01E-07	--	1.56E-06	1.28E-01	--
118-K-1_P1_Shallow_3	5.65E-07	--	0.00E+00	--	5.65E-07	1.34E-01	--
118-K-1_P1_Shallow_4	1.06E-06	Arsenic (1.06E-06)	6.42E-07	--	1.71E-06	1.23E-01	--
118-K-1_P1_Shallow_5	7.44E-07	--	2.82E-06	--	3.56E-06	1.31E-01	--
118-K-1_P1_Shallow_Focused_1	9.63E-07	--	3.89E-06	--	4.85E-06	1.30E-01	--
118-K-1_P2_Shallow_1	4.85E-07	--	7.09E-07	--	1.19E-06	9.13E-02	--
118-K-1_P2_Shallow_10	6.76E-07	--	1.91E-07	--	8.67E-07	1.33E-01	--
118-K-1_P2_Shallow_11A	5.96E-07	--	1.38E-07	--	7.34E-07	1.12E-01	--
118-K-1_P2_Shallow_11B	6.47E-07	--	1.01E-07	--	7.49E-07	1.14E-01	--
118-K-1_P2_Shallow_11C	7.33E-07	--	9.70E-08	--	8.30E-07	1.16E-01	--
118-K-1_P2_Shallow_11D	6.26E-07	--	1.23E-07	--	7.48E-07	1.08E-01	--
118-K-1_P2_Shallow_11E	7.57E-07	--	1.41E-07	--	8.98E-07	1.18E-01	--
118-K-1_P2_Shallow_11F	6.78E-07	--	5.86E-07	--	1.26E-06	1.16E-01	--
118-K-1_P2_Shallow_11G	5.39E-07	--	1.66E-07	--	7.06E-07	1.17E-01	--
118-K-1_P2_Shallow_11H	5.56E-07	--	7.28E-07	--	1.28E-06	1.12E-01	--
118-K-1_P2_Shallow_2	5.76E-07	--	5.32E-07	--	1.11E-06	9.02E-02	--
118-K-1_P2_Shallow_3	5.77E-07	--	8.18E-08	--	6.58E-07	9.49E-02	--
118-K-1_P2_Shallow_4	6.35E-07	--	5.63E-07	--	1.20E-06	9.98E-02	--
118-K-1_P2_Shallow_5	5.88E-07	--	7.35E-07	--	1.32E-06	1.22E-01	--
118-K-1_P2_Shallow_6	5.09E-07	--	1.23E-06	--	1.74E-06	1.18E-01	--
118-K-1_P2_Shallow_7	7.11E-07	--	3.41E-07	--	1.05E-06	1.74E-01	--
118-K-1_P2_Shallow_8	6.86E-07	--	5.44E-07	--	1.23E-06	1.44E-01	--
118-K-1_P2_Shallow_9	6.22E-07	--	3.03E-07	--	9.25E-07	1.18E-01	--
118-K-1_P2_Shallow_Focused_3	7.98E-07	--	8.58E-08	--	8.84E-07	1.40E-01	--
118-K-1_P2_Shallow_Focused_4	3.13E-07	--	4.10E-08	--	3.54E-07	1.01E-01	--
118-K-1_P2_Shallow_Focused_5	3.21E-07	--	5.43E-08	--	3.75E-07	9.82E-02	--
118-K-1_P2_Shallow_Focused_6	7.50E-07	--	1.87E-06	--	2.62E-06	9.27E-02	--
118-K-1_P2_Shallow_Focused_8	8.34E-07	--	4.32E-08	--	8.77E-07	1.16E-01	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	5.15E-07	--	0.00E+00	--	5.15E-07	7.79E-02	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	5.62E-07	--	0.00E+00	--	5.62E-07	7.66E-02	--
128-K-1_Shallow_Focused	5.06E-06	Benzo(a)pyrene (2.16E-06)	0.00E+00	--	5.06E-06	3.06E-02	--
128-K-2_Shallow	6.93E-07	--	0.00E+00	--	6.93E-07	1.03E-01	--

Table B-18. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
128-K-2_Shallow_Focused	6.90E-07	--	0.00E+00	--	6.90E-07	1.02E-01	--
132-KE-1_Shallow	5.56E-07	--	4.55E-07	--	1.01E-06	6.54E-02	--
1607-K3_Shallow	7.04E-07	--	0.00E+00	--	7.04E-07	8.26E-02	--
600-29_Shallow	2.13E-06	Arsenic (2.08E-06)	0.00E+00	--	2.13E-06	1.41E-01	--
600-29_Shallow_Focused	1.48E-06	Arsenic (1.36E-06)	0.00E+00	--	1.48E-06	1.24E-01	--

Table B-19. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs with Background Contributions

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	5.15E-07	--	0.00E+00	--	5.15E-07	7.04E-02	--
100-K-106_Overburden_2	4.45E-07	--	0.00E+00	--	4.45E-07	5.86E-02	--
100-K-106_Overburden_3	4.93E-07	--	0.00E+00	--	4.93E-07	6.19E-02	--
100-K-106_Overburden_Focused_2	4.35E-07	--	0.00E+00	--	4.35E-07	5.91E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	4.79E-07	--	0.00E+00	--	4.79E-07	7.72E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	3.51E-07	--	0.00E+00	--	3.51E-07	7.96E-02	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	5.50E-07	--	4.63E-07	--	1.01E-06	6.01E-02	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	7.41E-07	--	0.00E+00	--	7.41E-07	6.78E-02	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	6.36E-07	--	0.00E+00	--	6.36E-07	5.91E-02	--
100-K-55:1_Overburden	0.00E+00	--	1.04E-06	--	1.04E-06	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	5.35E-07	--	3.61E-07	--	8.95E-07	6.77E-02	--
116-K-1_Overburden	0.00E+00	--	7.00E-07	--	7.00E-07	9.22E-06	--
116-K-2_Overburden	7.10E-12	--	4.68E-07	--	4.68E-07	8.47E-04	--
118-K-1_Overburden_12	6.22E-07	--	1.15E-07	--	7.37E-07	1.19E-01	--
118-K-1_Overburden_13	5.53E-07	--	8.55E-08	--	6.39E-07	1.06E-01	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	5.62E-07	--	0.00E+00	--	5.62E-07	7.67E-02	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	8.13E-07	--	0.00E+00	--	8.13E-07	8.25E-02	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-102_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.95E+02	--	--	--	3.65E+05	1.63E-03	7.67%
100-K-102_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.49E+02	4.11E+07	3.63E-12	100.00%	2.74E+06	5.44E-05	0.26%
100-K-102_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	5.09E+03	--	--	--	2.74E+05	1.86E-02	87.38%
100-K-102_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.93E+02	--	--	--	4.56E+06	1.30E-04	0.61%
100-K-102_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.72E+03	--	--	--	4.56E+06	3.78E-04	1.78%
100-K-102_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.93E-05	0.28%
100-K-102_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.89E+02	--	--	--	5.48E+08	1.26E-06	0.01%
100-K-102_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	1.18E+05	--	--	--	2.74E+08	4.31E-04	2.03%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.63E-12**	**--**	**--**	**2.13E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.63E-12**	**--**	**--**	**--**	**--**
100-K-102_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	4.45E+02	--	--	--	3.65E+05	1.22E-03	17.79%
100-K-102_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	9.62E+02	5.31E+09	1.81E-13	100.00%	8.33E+05	1.15E-03	16.85%
100-K-102_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1.21E+03	--	--	--	2.74E+05	4.43E-03	64.57%
100-K-102_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	5.48E+08	5.35E-05	0.78%
100-K-102_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	5.48E+08	8.74E-07	0.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.81E-13**	**--**	**--**	**6.85E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.81E-13**	**--**	**--**	**--**	**--**
100-K-102_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.63E+02	--	--	--	3.65E+05	1.27E-03	4.88%
100-K-102_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	4.61E+03	--	--	--	5.47E+07	8.42E-05	0.32%
100-K-102_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	6.48E+05	--	--	--	1.28E+08	5.08E-03	19.55%
100-K-102_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	8.20E+02	--	--	--	4.56E+06	1.80E-04	0.69%
100-K-102_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	3.82E+04	--	--	--	5.48E+08	6.98E-05	0.27%
100-K-102_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	7.16E+02	--	--	--	5.48E+08	1.31E-06	0.01%
100-K-102_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.67E+04	--	--	--	4.56E+06	1.90E-02	73.18%
100-K-102_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	7.84E+04	--	--	--	2.74E+08	2.86E-04	1.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.60E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-105_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.90E+02	4.11E+07	7.06E-12	100.00%	2.74E+06	1.06E-04	68.51%
100-K-105_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.60E+04	--	--	--	5.48E+08	4.75E-05	30.71%
100-K-105_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.60E+02	--	--	--	5.48E+08	1.21E-06	0.78%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.06E-12**	**--**	**--**	**1.55E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**7.06E-12**	**--**	**--**	**--**	**--**
100-K-105_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	4.11E+07	5.60E-12	100.00%	2.74E+06	8.40E-05	66.12%
100-K-105_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	2.30E+04	--	--	--	5.48E+08	4.20E-05	33.06%
100-K-105_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	5.48E+08	1.04E-06	0.82%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.60E-12**	**--**	**--**	**1.27E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.60E-12**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-105_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.60E+02	4.11E+07	3.89E-12	100.00%	2.74E+06	5.84E-05	51.96%
100-K-105_Shallow_3	non-Rad	Strontium	7440-24-6	ug/kg	2.90E+04	--	--	--	5.48E+08	5.30E-05	47.09%
100-K-105_Shallow_3	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	5.48E+08	1.08E-06	0.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.89E-12**	**--**	**--**	**1.12E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.89E-12**	**--**	**--**	**--**	**--**
100-K-106_Overburden_1	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	5.48E+08	5.63E-05	98.69%
100-K-106_Overburden_1	non-Rad	Tin	7440-31-5	ug/kg	4.10E+02	--	--	--	5.48E+08	7.49E-07	1.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.70E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Overburden_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.97E+02	--	--	--	4.56E+06	1.09E-04	65.99%
100-K-106_Overburden_2	non-Rad	Strontium	7440-24-6	ug/kg	3.02E+04	--	--	--	5.48E+08	5.52E-05	33.42%
100-K-106_Overburden_2	non-Rad	Tin	7440-31-5	ug/kg	5.34E+02	--	--	--	5.48E+08	9.75E-07	0.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.65E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Overburden_3	non-Rad	Strontium	7440-24-6	ug/kg	2.96E+04	--	--	--	5.48E+08	5.41E-05	98.70%
100-K-106_Overburden_3	non-Rad	Tin	7440-31-5	ug/kg	3.91E+02	--	--	--	5.48E+08	7.14E-07	1.30%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.48E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Overburden_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.94E+04	--	--	--	5.48E+08	5.37E-05	98.59%
100-K-106_Overburden_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.21E+02	--	--	--	5.48E+08	7.69E-07	1.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.45E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	5.48E+08	3.74E-05	98.41%
100-K-106_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.32E+02	--	--	--	5.48E+08	6.06E-07	1.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**3.80E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_1	non-Rad	Strontium	7440-24-6	ug/kg	2.19E+04	--	--	--	5.48E+08	4.00E-05	98.34%
100-K-106_Shallow_Focused_1	non-Rad	Tin	7440-31-5	ug/kg	3.70E+02	--	--	--	5.48E+08	6.76E-07	1.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.07E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	4.90E+02	--	--	--	4.56E+06	1.07E-04	74.08%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-106_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.01E+04	--	--	--	5.48E+08	3.67E-05	25.32%
100-K-106_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	4.78E+02	--	--	--	5.48E+08	8.73E-07	0.60%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.45E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.99E+02	--	--	--	4.56E+06	1.09E-04	69.85%
100-K-106_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	2.53E+04	--	--	--	5.48E+08	4.62E-05	29.51%
100-K-106_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	5.47E+02	--	--	--	5.48E+08	9.99E-07	0.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.57E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	1.89E+04	--	--	--	5.48E+08	3.45E-05	97.92%
100-K-106_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.02E+02	--	--	--	5.48E+08	7.34E-07	2.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**3.53E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_5	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	5.48E+08	5.44E-05	98.41%
100-K-106_Shallow_Focused_5	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	5.48E+08	8.79E-07	1.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.53E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-106_Shallow_Focused_6	non-Rad	Strontium	7440-24-6	ug/kg	2.48E+04	--	--	--	5.48E+08	4.53E-05	98.16%
100-K-106_Shallow_Focused_6	non-Rad	Tin	7440-31-5	ug/kg	4.65E+02	--	--	--	5.48E+08	8.49E-07	1.84%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.61E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-109_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.60E+01	--	--	--	2.74E+05	2.78E-04	42.37%
100-K-109_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.56E+06	1.05E-04	16.07%
100-K-109_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.03E+03	--	--	--	4.56E+06	2.25E-04	34.37%
100-K-109_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	5.48E+08	4.63E-05	7.07%
100-K-109_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	5.48E+08	8.15E-07	0.12%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**6.55E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-109_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.67E+02	4.11E+07	4.06E-12	100.00%	2.74E+06	6.10E-05	9.04%
100-K-109_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.40E+01	--	--	--	2.74E+05	5.11E-05	7.57%
100-K-109_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	4.80E+02	--	--	--	4.56E+06	1.05E-04	15.58%
100-K-109_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.90E+03	--	--	--	4.56E+06	4.16E-04	61.68%
100-K-109_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	2.17E+04	--	--	--	5.48E+08	3.96E-05	5.87%
100-K-109_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	9.70E+02	--	--	--	5.48E+08	1.77E-06	0.26%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.06E-12**	**--**	**--**	**6.75E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.06E-12**	**--**	**--**	**--**	**--**
100-K-110_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.42E+03	--	--	--	3.65E+05	1.21E-02	18.04%
100-K-110_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.99E+02	4.11E+07	4.84E-12	100.00%	2.74E+06	7.26E-05	0.11%
100-K-110_Shallow	non-Rad	Iron	7439-89-6	ug/kg	3.35E+07	--	--	--	6.39E+08	5.24E-02	78.19%
100-K-110_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.31E+02	--	--	--	2.74E+05	1.58E-03	2.35%
100-K-110_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.87E+02	--	--	--	4.56E+06	1.29E-04	0.19%
100-K-110_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.81E+03	--	--	--	4.56E+06	3.97E-04	0.59%
100-K-110_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.03E+04	--	--	--	5.48E+08	7.35E-05	0.11%
100-K-110_Shallow	non-Rad	Tin	7440-31-5	ug/kg	9.94E+02	--	--	--	5.48E+08	1.82E-06	0.00%
100-K-110_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	7.65E+04	--	--	--	2.74E+08	2.80E-04	0.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.84E-12**	**--**	**--**	**6.71E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.84E-12**	**--**	**--**	**--**	**--**
100-K-110_Shallow_focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.87E+03	5.31E+09	3.52E-13	100.00%	8.33E+05	2.24E-03	84.81%
100-K-110_Shallow_focused	non-Rad	Mercury	7439-97-6	ug/kg	1.10E+02	--	--	--	2.74E+05	4.02E-04	15.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.52E-13**	**--**	**--**	**2.65E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.52E-13**	**--**	**--**	**--**	**--**
100-K-14, 126-KE-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.15E+03	--	--	--	3.65E+05	1.14E-02	31.11%
100-K-14, 126-KE-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1.63E+03	3.98E+09	4.10E-13	100.00%	1.82E+06	8.95E-04	2.45%
100-K-14, 126-KE-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.06E+04	--	--	--	1.82E+08	5.81E-05	0.16%
100-K-14, 126-KE-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.92E+02	--	--	--	2.74E+05	1.80E-03	4.91%
100-K-14, 126-KE-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.22E+03	--	--	--	4.56E+06	2.68E-04	0.73%
100-K-14, 126-KE-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.14E+03	--	--	--	4.56E+06	2.50E-04	0.68%
100-K-14, 126-KE-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	9.58E+02	--	--	--	4.56E+06	2.10E-04	0.57%
100-K-14, 126-KE-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.56E+06	2.17E-02	59.38%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.10E-13**	**--**	**--**	**3.66E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.10E-13**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Molybdenum	7439-98-7	ug/kg	5.74E+02	--	--	--	4.56E+06	1.26E-04	18.15%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Selenium	7782-49-2	ug/kg	2.35E+03	--	--	--	4.56E+06	5.15E-04	74.36%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	5.48E+08	5.09E-05	7.34%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Tin	7440-31-5	ug/kg	5.83E+02	--	--	--	5.48E+08	1.06E-06	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**6.93E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.74E+02	4.11E+07	4.23E-12	100.00%	2.74E+06	6.36E-05	0.28%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Mercury	7439-97-6	ug/kg	2.41E+02	--	--	--	2.74E+05	8.80E-04	3.92%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.56E+06	1.61E-04	0.71%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Selenium	7782-49-2	ug/kg	2.40E+03	--	--	--	4.56E+06	5.26E-04	2.34%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Strontium	7440-24-6	ug/kg	2.79E+04	--	--	--	5.48E+08	5.10E-05	0.23%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Tin	7440-31-5	ug/kg	6.72E+02	--	--	--	5.48E+08	1.23E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Vanadium	7440-62-2	ug/kg	9.49E+04	--	--	--	4.56E+06	2.08E-02	92.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.23E-12**	**--**	**--**	**2.25E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.23E-12**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.33E+02	4.11E+07	5.66E-12	100.00%	2.74E+06	8.50E-05	0.43%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Mercury	7439-97-6	ug/kg	6.79E+01	--	--	--	2.74E+05	2.48E-04	1.24%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Molybdenum	7439-98-7	ug/kg	6.22E+02	--	--	--	4.56E+06	1.36E-04	0.68%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Selenium	7782-49-2	ug/kg	1.06E+03	--	--	--	4.56E+06	2.32E-04	1.16%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Strontium	7440-24-6	ug/kg	3.43E+04	--	--	--	5.48E+08	6.27E-05	0.31%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Tin	7440-31-5	ug/kg	6.26E+02	--	--	--	5.48E+08	1.14E-06	0.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Vanadium	7440-62-2	ug/kg	8.75E+04	--	--	--	4.56E+06	1.92E-02	96.17%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.66E-12**	**--**	**--**	**1.99E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.66E-12**	**--**	**--**	**--**	**--**
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.64E+02	4.11E+07	1.86E-11	100.00%	2.74E+06	2.79E-04	15.00%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Mercury	7439-97-6	ug/kg	2.90E+02	--	--	--	2.74E+05	1.06E-03	56.92%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Molybdenum	7439-98-7	ug/kg	5.10E+02	--	--	--	4.56E+06	1.12E-04	6.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Selenium	7782-49-2	ug/kg	1.70E+03	--	--	--	4.56E+06	3.73E-04	20.02%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Strontium	7440-24-6	ug/kg	2.05E+04	--	--	--	5.48E+08	3.74E-05	2.01%
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	5.48E+08	8.77E-07	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.86E-11**	**--**	**--**	**1.86E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.86E-11**	**--**	**--**	**--**	**--**
100-K-29_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.80E+01	2.91E+03	3.37E-08	99.77%	1.37E+04	7.15E-03	83.93%
100-K-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.47E+04	--	--	--	1.37E+09	1.80E-05	0.21%
100-K-29_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.20E+03	4.11E+07	7.79E-11	0.23%	2.74E+06	1.17E-03	13.71%
100-K-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.00E+01	--	--	--	2.74E+05	1.83E-04	2.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.38E-08**	**--**	**--**	**8.52E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.38E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.60E+02	--	--	--	4.18E+07	3.82E-06	0.13%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	2.10E+00	--	--	--	2.09E+08	1.00E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.74E+02	--	--	--	3.65E+05	1.02E-03	34.55%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.70E+01	2.91E+03	5.84E-09	6.22%	1.37E+04	1.24E-03	41.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.40E+01	2.91E+03	8.25E-09	8.78%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.90E+01	1.34E+04	3.66E-09	3.89%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.90E+01	1.34E+03	3.66E-08	38.92%	2.09E+05	2.34E-04	7.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.30E+01	1.34E+04	5.45E-09	5.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.20E+01	1.34E+05	2.39E-10	0.25%	--	--	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	7.50E+01	1.34E+06	5.60E-11	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	4.20E+01	1.34E+03	3.14E-08	33.36%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.81E+01	--	--	--	2.79E+07	3.16E-06	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.30E+00	--	--	--	2.79E+07	2.26E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	4.11E+07	2.48E-12	0.00%	2.74E+06	3.73E-05	1.26%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.70E+01	1.34E+04	2.02E-09	2.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.01E+01	--	--	--	2.74E+05	1.83E-04	6.17%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	7.33E+02	--	--	--	4.56E+06	1.61E-04	5.42%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	3.90E+01	7.11E+04	5.48E-10	0.58%	2.26E+06	1.73E-05	0.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.09E+07	3.15E-06	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.11E+04	--	--	--	5.48E+08	5.67E-05	1.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.03E+02	--	--	--	5.48E+08	9.18E-07	0.03%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.40E-08**	**--**	**--**	**2.97E-03**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	3.10E-02	2.77E+03	1.12E-09	0.47%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.50E-01	6.39E+01	2.35E-07	99.24%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.72E-02	4.04E+03	6.73E-10	0.28%	--	--	--
Total Radiological Risk Estimate							**2.37E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.31E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Acenaphthene	83-32-9	ug/kg	4.90E+01	--	--	--	4.18E+07	1.17E-06	0.12%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	2.91E+03	4.12E-09	31.97%	1.37E+04	8.76E-04	90.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.10E+01	1.34E+04	8.21E-10	6.36%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.10E+00	1.34E+03	6.05E-09	46.87%	2.09E+05	3.87E-05	3.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+01	1.34E+04	1.12E-09	8.68%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.60E+00	1.34E+05	5.67E-11	0.44%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.34E+06	1.34E-11	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	2.79E+07	8.60E-07	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.30E+00	1.34E+04	3.96E-10	3.07%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Naphthalene	91-20-3	ug/kg	2.30E+01	7.11E+04	3.23E-10	2.51%	2.26E+06	1.02E-05	1.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.09E+07	9.08E-07	0.09%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Strontium	7440-24-6	ug/kg	2.40E+04	--	--	--	5.48E+08	4.38E-05	4.51%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	non-Rad	Tin	7440-31-5	ug/kg	3.45E+02	--	--	--	5.48E+08	6.30E-07	0.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.29E-08**	**--**	**--**	**9.72E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.29E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+00	1.34E+03	7.46E-10	100.00%	2.09E+05	4.78E-06	7.53%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Fluoranthene	206-44-0	ug/kg	4.50E+00	--	--	--	2.79E+07	1.61E-07	0.25%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	5.48E+08	5.77E-05	90.93%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	non-Rad	Tin	7440-31-5	ug/kg	4.46E+02	--	--	--	5.48E+08	8.15E-07	1.28%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.46E-10**	**--**	**--**	**6.35E-05**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	Rad	Americium-241	14596-10-2	pCi/g	2.10E-02	2.77E+03	7.58E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**7.58E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.50E-09**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Strontium	7440-24-6	ug/kg	2.55E+04	--	--	--	5.48E+08	4.66E-05	98.44%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	non-Rad	Tin	7440-31-5	ug/kg	4.04E+02	--	--	--	5.48E+08	7.38E-07	1.56%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.73E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Acenaphthene	83-32-9	ug/kg	6.40E+01	--	--	--	4.18E+07	1.53E-06	1.04%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.30E+01	1.34E+04	9.70E-10	6.88%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.40E+01	1.34E+03	1.05E-08	74.15%	2.09E+05	6.69E-05	45.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.90E+01	1.34E+04	1.42E-09	10.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.10E+00	1.34E+05	6.05E-11	0.43%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Chrysene	218-01-9	ug/kg	2.10E+01	1.34E+06	1.57E-11	0.11%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+01	--	--	--	2.79E+07	1.18E-06	0.81%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	2.79E+07	1.58E-07	0.11%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.70E+00	1.34E+04	5.75E-10	4.08%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Naphthalene	91-20-3	ug/kg	4.30E+01	7.11E+04	6.04E-10	4.29%	2.26E+06	1.90E-05	12.98%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.09E+07	1.10E-06	0.75%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Strontium	7440-24-6	ug/kg	3.07E+04	--	--	--	5.48E+08	5.61E-05	38.24%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	non-Rad	Tin	7440-31-5	ug/kg	3.41E+02	--	--	--	5.48E+08	6.23E-07	0.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.41E-08**	**--**	**--**	**1.47E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.41E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Acenaphthene	83-32-9	ug/kg	2.10E+02	--	--	--	4.18E+07	5.02E-06	1.35%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.70E+01	1.34E+04	5.00E-09	5.04%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.20E+01	1.34E+03	4.63E-08	46.63%	2.09E+05	2.96E-04	79.89%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.80E+01	1.34E+04	6.57E-09	6.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.80E+01	1.34E+05	2.84E-10	0.29%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Chrysene	218-01-9	ug/kg	8.10E+01	1.34E+06	6.05E-11	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	5.10E+01	1.34E+03	3.81E-08	38.36%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Fluoranthene	206-44-0	ug/kg	8.10E+01	--	--	--	2.79E+07	2.90E-06	0.78%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.00E+01	1.34E+04	2.99E-09	3.01%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Pyrene	129-00-0	ug/kg	7.70E+01	--	--	--	2.09E+07	3.68E-06	0.99%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	5.48E+08	6.23E-05	16.79%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	non-Rad	Tin	7440-31-5	ug/kg	3.98E+02	--	--	--	5.48E+08	7.27E-07	0.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**9.93E-08**	**--**	**--**	**3.71E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.93E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Acenaphthene	83-32-9	ug/kg	5.50E+02	--	--	--	4.18E+07	1.31E-05	0.83%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Anthracene	120-12-7	ug/kg	1.20E+01	--	--	--	2.09E+08	5.74E-08	0.00%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Antimony	7440-36-0	ug/kg	3.19E+02	--	--	--	3.65E+05	8.74E-04	54.96%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.90E+01	1.34E+04	7.39E-09	5.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+02	1.34E+03	8.21E-08	61.80%	2.09E+05	5.26E-04	33.07%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.50E+02	1.34E+04	1.12E-08	8.43%	--	--	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.30E+01	1.34E+05	4.70E-10	0.35%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+02	1.34E+06	1.27E-10	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.50E+01	1.34E+03	2.61E-08	19.66%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Fluoranthene	206-44-0	ug/kg	2.10E+02	--	--	--	2.79E+07	7.53E-06	0.47%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.30E+01	1.34E+04	5.45E-09	4.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.56E+06	1.06E-04	6.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Pyrene	129-00-0	ug/kg	1.30E+02	--	--	--	2.09E+07	6.21E-06	0.39%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Strontium	7440-24-6	ug/kg	3.05E+04	--	--	--	5.48E+08	5.57E-05	3.50%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	non-Rad	Tin	7440-31-5	ug/kg	9.83E+02	--	--	--	5.48E+08	1.80E-06	0.11%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.33E-07**	**--**	**--**	**1.59E-03**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	2.77E+03	7.94E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**7.94E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.34E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+02	--	--	--	4.18E+07	7.41E-06	3.32%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.50E+01	1.34E+04	4.85E-09	14.21%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.10E+01	1.34E+03	2.31E-08	67.78%	2.09E+05	1.48E-04	66.30%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.70E+01	1.34E+04	4.25E-09	12.46%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.50E+01	1.34E+05	1.87E-10	0.55%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Chrysene	218-01-9	ug/kg	8.70E+01	1.34E+06	6.49E-11	0.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	2.79E+07	5.38E-06	2.41%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.20E+01	1.34E+04	1.64E-09	4.81%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Pyrene	129-00-0	ug/kg	1.00E+02	--	--	--	2.09E+07	4.78E-06	2.14%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Strontium	7440-24-6	ug/kg	3.12E+04	--	--	--	5.48E+08	5.70E-05	25.50%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	non-Rad	Tin	7440-31-5	ug/kg	4.12E+02	--	--	--	5.48E+08	7.53E-07	0.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.41E-08**	**--**	**--**	**2.23E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.41E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Acenaphthene	83-32-9	ug/kg	2.70E+01	--	--	--	4.18E+07	6.45E-07	0.94%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.30E+00	1.34E+04	3.96E-10	14.49%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.40E+00	1.34E+03	1.79E-09	65.60%	2.09E+05	1.15E-05	16.72%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.60E+00	1.34E+04	4.18E-10	15.31%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.90E+00	1.34E+05	1.42E-11	0.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Chrysene	218-01-9	ug/kg	9.30E+00	1.34E+06	6.94E-12	0.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Fluoranthene	206-44-0	ug/kg	1.60E+01	--	--	--	2.79E+07	5.74E-07	0.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.40E+00	1.34E+04	1.05E-10	3.83%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Pyrene	129-00-0	ug/kg	9.10E+00	--	--	--	2.09E+07	4.35E-07	0.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Strontium	7440-24-6	ug/kg	3.00E+04	--	--	--	5.48E+08	5.48E-05	79.87%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	non-Rad	Tin	7440-31-5	ug/kg	3.76E+02	--	--	--	5.48E+08	6.87E-07	1.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.73E-09**	**--**	**--**	**6.86E-05**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	Rad	Americium-241	14596-10-2	pCi/g	2.20E-02	2.77E+03	7.94E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**7.94E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.52E-09**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.10E+00	1.34E+03	8.21E-10	100.00%	2.09E+05	5.26E-06	8.63%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Fluoranthene	206-44-0	ug/kg	5.20E+00	--	--	--	2.79E+07	1.86E-07	0.31%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Pyrene	129-00-0	ug/kg	2.80E+00	--	--	--	2.09E+07	1.34E-07	0.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Strontium	7440-24-6	ug/kg	2.99E+04	--	--	--	5.48E+08	5.46E-05	89.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	non-Rad	Tin	7440-31-5	ug/kg	3.99E+02	--	--	--	5.48E+08	7.29E-07	1.20%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.21E-10**	**--**	**--**	**6.09E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.21E-10**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Acenaphthene	83-32-9	ug/kg	1.40E+03	--	--	--	4.18E+07	3.35E-05	4.48%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.80E+02	1.34E+04	2.09E-08	11.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.34E+03	8.96E-08	49.06%	2.09E+05	5.74E-04	76.80%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.34E+04	1.57E-08	8.59%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.60E+01	1.34E+05	7.17E-10	0.39%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Boron	7440-42-8	ug/kg	4.99E+03	--	--	--	1.82E+08	2.73E-05	3.66%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Chrysene	218-01-9	ug/kg	3.50E+02	1.34E+06	2.61E-10	0.14%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	6.80E+01	1.34E+03	5.08E-08	27.80%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluoranthene	206-44-0	ug/kg	8.80E+02	--	--	--	2.79E+07	3.15E-05	4.22%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Fluorene	86-73-7	ug/kg	1.00E+02	--	--	--	2.79E+07	3.58E-06	0.48%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.30E+01	1.34E+04	4.70E-09	2.58%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+02	--	--	--	2.09E+07	2.82E-05	3.78%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Strontium	7440-24-6	ug/kg	2.65E+04	--	--	--	5.48E+08	4.84E-05	6.48%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	non-Rad	Tin	7440-31-5	ug/kg	4.03E+02	--	--	--	5.48E+08	7.36E-07	0.10%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.83E-07**	**--**	**--**	**7.47E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.83E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Acenaphthene	83-32-9	ug/kg	3.10E+01	--	--	--	4.18E+07	7.41E-07	0.74%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Anthracene	120-12-7	ug/kg	4.60E+00	--	--	--	2.09E+08	2.20E-08	0.02%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.90E+00	1.34E+04	5.90E-10	6.64%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.50E+00	1.34E+03	5.60E-09	63.05%	2.09E+05	3.59E-05	35.97%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.10E+01	1.34E+04	8.21E-10	9.25%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.50E+00	1.34E+05	3.36E-11	0.38%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Chrysene	218-01-9	ug/kg	1.90E+03	1.34E+06	1.42E-09	15.97%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluoranthene	206-44-0	ug/kg	2.40E+01	--	--	--	2.79E+07	8.60E-07	0.86%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Fluorene	86-73-7	ug/kg	4.10E+00	--	--	--	2.79E+07	1.47E-07	0.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.60E+00	1.34E+04	4.18E-10	4.71%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Pyrene	129-00-0	ug/kg	5.90E+01	--	--	--	2.09E+07	2.82E-06	2.83%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	5.48E+08	5.84E-05	58.64%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	non-Rad	Tin	7440-31-5	ug/kg	4.31E+02	--	--	--	5.48E+08	7.87E-07	0.79%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.88E-09**	**--**	**--**	**9.97E-05**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Americium-241	14596-10-2	pCi/g	7.00E-02	2.77E+03	2.53E-09	7.45%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.20E-01	4.04E+03	2.97E-09	8.76%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	Rad	Strontium-90	10098-97-2	pCi/g	1.50E+00	5.28E+03	2.84E-08	83.80%	--	--	--
Total Radiological Risk Estimate							**3.39E-08**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**4.28E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Fluoranthene	206-44-0	ug/kg	5.70E+00	--	--	--	2.79E+07	2.04E-07	0.51%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Strontium	7440-24-6	ug/kg	2.16E+04	--	--	--	5.48E+08	3.95E-05	98.20%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	non-Rad	Tin	7440-31-5	ug/kg	2.83E+02	--	--	--	5.48E+08	5.17E-07	1.29%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.02E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Acenaphthene	83-32-9	ug/kg	4.10E+02	--	--	--	4.18E+07	9.80E-06	1.78%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Anthracene	120-12-7	ug/kg	2.90E+01	--	--	--	2.09E+08	1.39E-07	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.50E+02	1.34E+04	1.12E-08	13.99%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	7.10E+01	1.34E+03	5.30E-08	66.21%	2.09E+05	3.39E-04	61.62%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+02	1.34E+04	8.96E-09	11.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.60E+01	1.34E+05	4.18E-10	0.52%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Chrysene	218-01-9	ug/kg	2.00E+02	1.34E+06	1.49E-10	0.19%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluoranthene	206-44-0	ug/kg	3.30E+02	--	--	--	2.79E+07	1.18E-05	2.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Fluorene	86-73-7	ug/kg	4.40E+00	--	--	--	2.79E+07	1.58E-07	0.03%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.20E+01	1.34E+04	2.39E-09	2.98%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Naphthalene	91-20-3	ug/kg	2.80E+02	7.11E+04	3.94E-09	4.92%	2.26E+06	1.24E-04	22.51%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Pyrene	129-00-0	ug/kg	2.20E+02	--	--	--	2.09E+07	1.05E-05	1.91%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Strontium	7440-24-6	ug/kg	2.98E+04	--	--	--	5.48E+08	5.44E-05	9.88%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	non-Rad	Tin	7440-31-5	ug/kg	2.84E+02	--	--	--	5.48E+08	5.19E-07	0.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.00E-08**	**--**	**--**	**5.51E-04**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	Rad	Americium-241	14596-10-2	pCi/g	3.00E-02	2.77E+03	1.08E-09	100.00%	--	--	--
Total Radiological Risk Estimate							**1.08E-09**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.11E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Acenaphthene	83-32-9	ug/kg	5.80E+01	--	--	--	4.18E+07	1.39E-06	0.06%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.80E+01	2.91E+03	9.62E-09	44.66%	1.37E+04	2.04E-03	94.59%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.20E+01	1.34E+04	8.96E-10	4.16%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+01	1.34E+03	8.96E-09	41.57%	2.09E+05	5.74E-05	2.65%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.34E+04	1.05E-09	4.85%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.90E+00	1.34E+05	5.15E-11	0.24%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Chrysene	218-01-9	ug/kg	1.80E+01	1.34E+06	1.34E-11	0.06%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	2.79E+07	1.04E-06	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Fluorene	86-73-7	ug/kg	4.50E+00	--	--	--	2.79E+07	1.61E-07	0.01%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.40E+00	1.34E+04	5.52E-10	2.56%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Naphthalene	91-20-3	ug/kg	2.90E+01	7.11E+04	4.08E-10	1.89%	2.26E+06	1.28E-05	0.59%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Pyrene	129-00-0	ug/kg	2.30E+01	--	--	--	2.09E+07	1.10E-06	0.05%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Strontium	7440-24-6	ug/kg	2.32E+04	--	--	--	5.48E+08	4.24E-05	1.96%
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	non-Rad	Tin	7440-31-5	ug/kg	3.18E+02	--	--	--	5.48E+08	5.81E-07	0.03%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.15E-08**	**--**	**--**	**2.16E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.15E-08**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Antimony	7440-36-0	ug/kg	3.92E+02	--	--	--	3.65E+05	1.07E-03	77.15%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.50E+02	2.91E+03	8.59E-08	77.88%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.60E+01	1.34E+04	2.69E-09	2.44%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.30E+01	1.34E+03	1.72E-08	15.56%	2.09E+05	1.10E-04	7.90%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.50E+01	1.34E+04	2.61E-09	2.37%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.50E+01	1.34E+05	1.12E-10	0.10%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Chrysene	218-01-9	ug/kg	4.10E+01	1.34E+06	3.06E-11	0.03%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Fluoranthene	206-44-0	ug/kg	8.90E+01	--	--	--	2.79E+07	3.19E-06	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.40E+01	1.34E+04	1.79E-09	1.62%	--	--	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Molybdenum	7439-98-7	ug/kg	6.25E+02	--	--	--	4.56E+06	1.37E-04	9.84%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Pyrene	129-00-0	ug/kg	6.60E+01	--	--	--	2.09E+07	3.15E-06	0.23%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Strontium	7440-24-6	ug/kg	3.49E+04	--	--	--	5.48E+08	6.37E-05	4.58%
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	non-Rad	Tin	7440-31-5	ug/kg	5.72E+02	--	--	--	5.48E+08	1.04E-06	0.08%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.10E-07**	**--**	**--**	**1.39E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.10E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	3.04E+01	--	--	--	2.74E+05	1.11E-04	65.18%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	3.20E+04	--	--	--	5.48E+08	5.85E-05	34.34%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.42E+02	--	--	--	5.48E+08	8.08E-07	0.47%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.70E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Americium-241	14596-10-2	pCi/g	3.80E-02	2.77E+03	1.37E-09	0.58%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	4.20E-02	5.72E+01	7.35E-08	31.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.02E-01	6.39E+01	1.60E-07	67.69%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	Rad	Europium-155	14391-16-3	pCi/g	9.20E-02	5.87E+03	1.57E-09	0.66%	--	--	--
Total Radiological Risk Estimate							**2.36E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.36E-07**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.93E+02	--	--	--	3.65E+05	5.29E-04	89.65%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.30E+04	--	--	--	5.48E+08	6.02E-05	10.20%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.56E+02	--	--	--	5.48E+08	8.34E-07	0.14%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.90E-04**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Americium-241	14596-10-2	pCi/g	9.15E-02	2.77E+03	3.30E-09	0.15%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.60E+00	9.82E+01	1.63E-06	75.50%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	5.72E+01	6.65E-08	3.08%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.79E-01	6.39E+01	4.37E-07	20.28%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	2.64E-02	4.61E+03	5.71E-10	0.03%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.59E-01	4.04E+03	3.92E-09	0.18%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	8.90E-01	5.28E+03	1.69E-08	0.78%	--	--	--
Total Radiological Risk Estimate							**2.16E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.16E-06**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Anthracene	120-12-7	ug/kg	2.20E+00	--	--	--	2.09E+08	1.05E-08	0.00%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.20E+01	2.91E+03	7.56E-09	55.17%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.30E+00	1.34E+04	5.45E-10	3.98%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.40E+00	1.34E+03	4.78E-09	34.86%	2.09E+05	3.06E-05	6.45%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.60E+00	1.34E+04	5.67E-10	4.14%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.90E+00	1.34E+05	2.16E-11	0.16%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.34E+06	8.96E-12	0.07%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Fluoranthene	206-44-0	ug/kg	1.80E+01	--	--	--	2.79E+07	6.45E-07	0.14%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.00E+00	1.34E+04	2.24E-10	1.63%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Pyrene	129-00-0	ug/kg	1.90E+01	--	--	--	2.09E+07	9.08E-07	0.19%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Selenium	7782-49-2	ug/kg	1.80E+03	--	--	--	4.56E+06	3.95E-04	83.21%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Strontium	7440-24-6	ug/kg	2.54E+04	--	--	--	5.48E+08	4.64E-05	9.78%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Tin	7440-31-5	ug/kg	5.90E+02	--	--	--	5.48E+08	1.08E-06	0.23%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.37E-08**	**--**	**--**	**4.74E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.37E-08**	**--**	**--**	**--**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Antimony	7440-36-0	ug/kg	1.20E+03	--	--	--	3.65E+05	3.29E-03	60.24%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Aroclor-1254	11097-69-1	ug/kg	2.10E+01	2.91E+03	7.22E-09	13.25%	1.37E+04	1.53E-03	28.09%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Aroclor-1260	11096-82-5	ug/kg	1.20E+01	2.91E+03	4.12E-09	7.57%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.00E+01	1.34E+04	3.73E-09	6.85%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.80E+01	1.34E+03	3.58E-08	65.78%	2.09E+05	2.29E-04	4.20%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.70E+01	1.34E+04	3.51E-09	6.44%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Chrysene	218-01-9	ug/kg	7.30E+01	1.34E+06	5.45E-11	0.10%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Fluoranthene	206-44-0	ug/kg	1.50E+02	--	--	--	2.79E+07	5.38E-06	0.10%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Selenium	7782-49-2	ug/kg	1.60E+03	--	--	--	4.56E+06	3.51E-04	6.43%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Strontium	7440-24-6	ug/kg	2.78E+04	--	--	--	5.48E+08	5.08E-05	0.93%
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	non-Rad	Tin	7440-31-5	ug/kg	5.70E+02	--	--	--	5.48E+08	1.04E-06	0.02%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.45E-08**	**--**	**--**	**5.46E-03**	**--**
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	Rad	Americium-241	14596-10-2	pCi/g	2.26E-01	2.77E+03	8.15E-09	0.40%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	Rad	Cesium-137	10045-97-3	pCi/g	1.61E+00	9.82E+01	1.64E-06	81.23%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	6.39E+01	3.52E-07	17.46%	--	--	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focu	Rad	Strontium-90	10098-97-2	pCi/g	9.56E-01	5.28E+03	1.81E-08	0.90%	--	--	--
Total Radiological Risk Estimate							**2.02E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.07E-06**	**--**	**--**	**--**	**--**
100-K-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	5.54E+02	--	--	--	3.65E+05	1.52E-03	95.99%
100-K-3_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	3.41E+04	--	--	--	5.48E+08	6.23E-05	3.94%
100-K-3_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	6.36E+02	--	--	--	5.48E+08	1.16E-06	0.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.58E-03**	**--**
100-K-3_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	3.50E-02	2.77E+03	1.26E-09	0.18%	--	--	--
100-K-3_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	4.40E-01	6.39E+01	6.89E-07	99.65%	--	--	--
100-K-3_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.70E-02	4.04E+03	1.16E-09	0.17%	--	--	--
Total Radiological Risk Estimate							**6.91E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.91E-07**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-3_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.94E-05	98.54%
100-K-3_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.81E+02	--	--	--	5.48E+08	8.79E-07	1.46%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**6.02E-05**	**--**
100-K-3_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.40E-02	4.04E+03	1.34E-09	9.52%	--	--	--
100-K-3_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	6.70E-01	5.28E+03	1.27E-08	90.48%	--	--	--
Total Radiological Risk Estimate							**1.40E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.40E-08**	**--**	**--**	**--**	**--**
100-K-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	6.40E+02	5.31E+09	1.21E-13	0.70%	8.33E+05	7.68E-04	1.18%
100-K-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.02E+02	4.11E+07	1.71E-11	99.30%	2.74E+06	2.56E-04	0.39%
100-K-30_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.75E+04	--	--	--	2.74E+05	6.39E-02	98.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.72E-11**	**--**	**--**	**6.50E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.72E-11**	**--**	**--**	**--**	**--**
100-K-31_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	1.69E+05	--	--	--	1.82E+08	9.26E-04	4.43%
100-K-31_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	7.50E+02	5.31E+09	1.41E-13	2.57%	8.33E+05	9.00E-04	4.31%
100-K-31_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.20E+02	4.11E+07	5.35E-12	97.43%	2.74E+06	8.04E-05	0.38%
100-K-31_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.20E+03	--	--	--	2.74E+05	1.90E-02	90.88%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.50E-12**	**--**	**--**	**2.09E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.50E-12**	**--**	**--**	**--**	**--**
100-K-32_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.30E+02	4.11E+07	5.60E-12	100.00%	2.74E+06	8.40E-05	0.17%
100-K-32_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.37E+04	--	--	--	2.74E+05	5.00E-02	99.83%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.60E-12**	**--**	**--**	**5.01E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.60E-12**	**--**	**--**	**--**	**--**
100-K-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1.00E+03	5.31E+09	1.88E-13	0.55%	8.33E+05	1.20E-03	4.52%
100-K-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	2.29E+04	--	--	--	1.37E+09	1.67E-05	0.06%
100-K-33_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.40E+03	4.11E+07	3.41E-11	99.45%	2.74E+06	5.11E-04	1.92%
100-K-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+03	--	--	--	2.74E+05	2.48E-02	93.50%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.43E-11**	**--**	**--**	**2.66E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.43E-11**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Antimony	7440-36-0	ug/kg	5.55E+02	--	--	--	3.65E+05	1.52E-03	74.59%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Mercury	7439-97-6	ug/kg	1.24E+02	--	--	--	2.74E+05	4.53E-04	22.22%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Strontium	7440-24-6	ug/kg	3.50E+04	--	--	--	5.48E+08	6.40E-05	3.14%
100-K-34, 100-K-102, 1607-K3_Overburden_11A	non-Rad	Tin	7440-31-5	ug/kg	6.02E+02	--	--	--	5.48E+08	1.10E-06	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.04E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Antimony	7440-36-0	ug/kg	1.73E+02	--	--	--	3.65E+05	4.74E-04	88.55%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Strontium	7440-24-6	ug/kg	3.31E+04	--	--	--	5.48E+08	6.05E-05	11.30%
100-K-34, 100-K-102, 1607-K3_Overburden_11B	non-Rad	Tin	7440-31-5	ug/kg	4.39E+02	--	--	--	5.48E+08	8.02E-07	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.35E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.17E+02	--	--	--	3.65E+05	1.14E-03	28.87%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.35E+04	--	--	--	3.65E+07	6.43E-04	16.24%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.24E+02	4.11E+07	3.02E-12	83.97%	2.74E+06	4.53E-05	1.14%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.89E+02	--	--	--	2.74E+05	6.90E-04	17.45%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	9.67E+02	--	--	--	4.56E+06	2.12E-04	5.35%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	2.12E+04	3.68E+10	5.76E-13	16.03%	1.82E+07	1.16E-03	29.32%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.37E+04	--	--	--	5.48E+08	6.16E-05	1.56%
100-K-34, 100-K-102, 1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	1.62E+03	--	--	--	5.48E+08	2.96E-06	0.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.59E-12**	**--**	**--**	**3.96E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.59E-12**	**--**	**--**	**--**	**--**
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	7.70E+03	--	--	--	3.65E+05	2.11E-02	47.65%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	9.50E+02	5.31E+09	1.79E-13	100.00%	8.33E+05	1.14E-03	2.57%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.05E+04	--	--	--	3.65E+07	8.36E-04	1.89%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	7.70E+03	--	--	--	5.47E+07	1.41E-04	0.32%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.74E+05	3.65E-04	0.83%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.20E+02	--	--	--	4.56E+06	1.36E-04	0.31%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.20E+03	--	--	--	4.56E+06	4.82E-04	1.09%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	6.04E+04	--	--	--	5.48E+08	1.10E-04	0.25%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2.80E+03	--	--	--	5.48E+08	5.11E-06	0.01%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	8.92E+04	--	--	--	4.56E+06	1.96E-02	44.16%
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.12E+05	--	--	--	2.74E+08	4.09E-04	0.92%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.79E-13**	**--**	**--**	**4.43E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.79E-13**	**--**	**--**	**--**	**--**
100-K-34_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.56E+06	1.40E-04	0.67%
100-K-34_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.13E+02	--	--	--	4.56E+06	2.00E-04	0.95%
100-K-34_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.56E+04	--	--	--	5.48E+08	4.68E-05	0.22%
100-K-34_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.80E+02	--	--	--	5.48E+08	8.77E-07	0.00%
100-K-34_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	9.44E+04	--	--	--	4.56E+06	2.07E-02	98.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.11E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-36_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.25E+04	--	--	--	5.48E+08	5.94E-05	98.63%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-36_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.52E+02	--	--	--	5.48E+08	8.26E-07	1.37%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**6.02E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3.20E+02	--	--	--	3.65E+05	8.77E-04	59.00%
100-K-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1.68E+04	--	--	--	1.82E+08	9.21E-05	6.20%
100-K-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4.83E+02	--	--	--	4.56E+06	1.06E-04	7.12%
100-K-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.51E+03	--	--	--	4.56E+06	3.31E-04	22.27%
100-K-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.35E+04	--	--	--	5.48E+08	7.95E-05	5.35%
100-K-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.16E+02	--	--	--	5.48E+08	9.43E-07	0.06%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.49E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-50, 1607-K2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	7.82E+00	--	--	--	4.18E+07	1.87E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.55E+01	--	--	--	2.09E+08	7.42E-08	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.96E+03	--	--	--	3.65E+05	5.37E-03	72.12%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.25E+00	2.91E+03	1.80E-09	1.32%	1.37E+04	3.83E-04	5.14%
100-K-50, 1607-K2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.35E+00	2.91E+03	8.09E-10	0.59%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.69E+02	1.34E+04	1.26E-08	9.23%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.07E+02	1.34E+03	7.99E-08	58.43%	2.09E+05	5.11E-04	6.87%
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.81E+02	1.34E+04	1.35E-08	9.88%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.72E+01	1.34E+05	2.03E-10	0.15%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9.01E+03	--	--	--	1.82E+08	4.94E-05	0.66%
100-K-50, 1607-K2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	2.08E+02	1.34E+06	1.55E-10	0.11%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	3.01E+01	1.34E+03	2.25E-08	16.44%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	2.25E+02	--	--	--	2.79E+07	8.07E-06	0.11%
100-K-50, 1607-K2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.28E+00	--	--	--	2.79E+07	2.25E-07	0.00%
100-K-50, 1607-K2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.83E+02	4.11E+07	9.31E-12	0.01%	2.74E+06	1.40E-04	1.88%
100-K-50, 1607-K2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.03E+01	1.34E+04	5.25E-09	3.84%	--	--	--
100-K-50, 1607-K2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1.26E+02	--	--	--	2.74E+05	4.60E-04	6.18%
100-K-50, 1607-K2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.65E+02	--	--	--	4.56E+06	1.24E-04	1.66%
100-K-50, 1607-K2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2.23E+02	--	--	--	2.09E+07	1.07E-05	0.14%
100-K-50, 1607-K2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.90E+02	--	--	--	4.56E+06	2.17E-04	2.91%
100-K-50, 1607-K2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	7.85E+02	--	--	--	4.56E+06	1.72E-04	2.31%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.37E-07**	**--**	**--**	**7.45E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.37E-07**	**--**	**--**	**--**	**--**
100-K-53_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.82E+04	--	--	--	3.65E+07	7.73E-04	61.05%
100-K-53_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.02E+02	4.11E+07	2.48E-12	100.00%	2.74E+06	3.73E-05	2.94%
100-K-53_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.77E+01	--	--	--	2.74E+05	2.11E-04	16.66%
100-K-53_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	8.69E+02	--	--	--	4.56E+06	1.90E-04	15.04%
100-K-53_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.93E+04	--	--	--	5.48E+08	5.36E-05	4.23%
100-K-53_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.09E+02	--	--	--	5.48E+08	9.30E-07	0.07%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.48E-12**	--	--	**1.27E-03**	--
100-K-53_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.16E+00	9.82E+01	1.18E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**1.18E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.18E-06**	--	--	--	--
100-K-55:1_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	2.74E-02	5.72E+01	4.80E-08	6.93%	--	--	--
100-K-55:1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	3.33E-01	6.39E+01	5.22E-07	75.29%	--	--	--
100-K-55:1_Overburden	Rad	Europium-154	15585-10-1	pCi/g	9.86E-02	8.00E+01	1.23E-07	17.78%	--	--	--
Total Radiological Risk Estimate							**6.93E-07**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**6.93E-07**	--	--	--	--
100-K-55:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.86E-01	5.72E+01	3.25E-07	14.58%	--	--	--
100-K-55:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.03E+00	6.39E+01	1.62E-06	72.46%	--	--	--
100-K-55:1_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.31E-01	8.00E+01	2.89E-07	12.96%	--	--	--
Total Radiological Risk Estimate							**2.23E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.23E-06**	--	--	--	--
100-K-55:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.10E-01	5.72E+01	1.92E-07	7.79%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.30E+00	6.39E+01	2.04E-06	82.46%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.87E-01	8.00E+01	2.34E-07	9.47%	--	--	--
100-K-55:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	3.66E-01	5.28E+03	6.93E-09	0.28%	--	--	--
Total Radiological Risk Estimate							**2.47E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.47E-06**	--	--	--	--
100-K-56:1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.41E-01	5.72E+01	2.47E-07	4.52%	--	--	--
100-K-56:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	3.33E+00	6.39E+01	5.21E-06	95.48%	--	--	--
Total Radiological Risk Estimate							**5.46E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**5.46E-06**	--	--	--	--
100-K-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	9.37E+02	4.11E+07	2.28E-11	100.00%	2.74E+06	3.42E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.28E-11**	--	--	**3.42E-04**	--
100-K-56:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.49E-01	5.72E+01	2.61E-07	4.70%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	3.11E+00	6.39E+01	4.87E-06	87.77%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	3.27E-01	8.00E+01	4.09E-07	7.37%	--	--	--
100-K-56:1_Shallow_Focused	Rad	Strontium-90	10098-97-2	pCi/g	4.96E-01	5.28E+03	9.40E-09	0.17%	--	--	--
Total Radiological Risk Estimate							**5.55E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**5.55E-06**	--	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	3.54E+02	--	--	--	3.65E+05	9.70E-04	52.38%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	8.40E+03	--	--	--	1.82E+08	4.60E-05	2.48%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	7.18E+01	4.11E+07	1.75E-12	100.00%	2.74E+06	2.62E-05	1.42%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	6.80E+01	--	--	--	2.74E+05	2.48E-04	13.42%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	4.98E+02	--	--	--	4.56E+06	1.09E-04	5.89%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1.83E+03	--	--	--	4.56E+06	4.00E-04	21.61%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Strontium	7440-24-6	ug/kg	2.80E+04	--	--	--	5.48E+08	5.11E-05	2.76%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	non-Rad	Tin	7440-31-5	ug/kg	4.79E+02	--	--	--	5.48E+08	8.75E-07	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.75E-12**	**--**	**--**	**1.85E-03**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	8.35E+00	3.30E+05	2.53E-09	12.12%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	9.70E-01	5.28E+03	1.84E-08	87.88%	--	--	--
Total Radiological Risk Estimate							**2.09E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.09E-08**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	4.82E+02	--	--	--	4.56E+06	1.06E-04	65.72%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.97E+04	--	--	--	5.48E+08	5.43E-05	33.77%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	4.50E+02	--	--	--	5.48E+08	8.22E-07	0.51%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.61E-04**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	2.34E-01	2.77E+03	8.45E-09	0.35%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	6.55E+01	3.30E+05	1.99E-08	0.81%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	1.68E+00	9.82E+01	1.71E-06	70.01%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.10E-01	6.39E+01	4.85E-07	19.87%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	8.00E+01	2.00E-07	8.19%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-238	13981-16-3	pCi/g	3.00E-02	4.61E+03	6.50E-10	0.03%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.32E-01	4.04E+03	3.26E-09	0.13%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	7.90E-01	5.28E+03	1.50E-08	0.61%	--	--	--
Total Radiological Risk Estimate							**2.44E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.44E-06**	**--**	**--**	**--**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	5.95E+02	--	--	--	4.56E+06	1.30E-04	66.61%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	3.52E+04	--	--	--	5.48E+08	6.43E-05	32.84%
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	5.94E+02	--	--	--	5.48E+08	1.08E-06	0.55%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.96E-04**	**--**
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Americium-241	14596-10-2	pCi/g	2.10E+00	2.77E+03	7.58E-08	0.45%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.39E+02	3.30E+05	4.22E-08	0.25%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	1.55E+01	9.82E+01	1.58E-05	94.57%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-238	13981-16-3	pCi/g	2.30E-01	4.61E+03	4.99E-09	0.03%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.20E+00	4.04E+03	5.44E-08	0.33%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Strontium-90	10098-97-2	pCi/g	1.10E+01	5.28E+03	2.08E-07	1.25%	--	--	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	5.31E+00	1.02E+03	5.19E-07	3.11%	--	--	--
Total Radiological Risk Estimate							**1.67E-05**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.67E-05**	**--**	**--**	**--**	**--**
100-K-6_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.08E+04	--	--	--	5.48E+08	5.63E-05	98.47%
100-K-6_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.77E+02	--	--	--	5.48E+08	8.71E-07	1.53%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.71E-05**	**--**
100-K-6_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.50E-02	2.77E+03	1.98E-09	14.61%	--	--	--
100-K-6_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	3.48E+01	3.30E+05	1.06E-08	77.74%	--	--	--
100-K-6_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.20E-02	4.04E+03	1.04E-09	7.65%	--	--	--
Total Radiological Risk Estimate							**1.36E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.36E-08**	**--**	**--**	**--**	**--**
100-K-62_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	2.29E+04	--	--	--	5.48E+08	4.18E-05	98.36%
100-K-62_Shallow	non-Rad	Tin	7440-31-5	ug/kg	3.83E+02	--	--	--	5.48E+08	7.00E-07	1.64%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.25E-05**	**--**
100-K-62_Shallow	Rad	Americium-241	14596-10-2	pCi/g	1.70E-01	2.77E+03	6.13E-09	18.93%	--	--	--
100-K-62_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.02E+01	3.30E+05	6.13E-09	18.92%	--	--	--
100-K-62_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	3.60E-02	4.61E+03	7.80E-10	2.41%	--	--	--
100-K-62_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.00E-01	4.04E+03	4.95E-09	15.28%	--	--	--
100-K-62_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	7.60E-01	5.28E+03	1.44E-08	44.45%	--	--	--
Total Radiological Risk Estimate							**3.24E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.24E-08**	**--**	**--**	**--**	**--**
100-K-63_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	1.90E+02	--	--	--	3.65E+05	5.21E-04	54.06%
100-K-63_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.52E+02	4.11E+07	3.69E-12	100.00%	2.74E+06	5.54E-05	5.75%
100-K-63_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	1.43E+01	--	--	--	2.74E+05	5.23E-05	5.43%
100-K-63_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1.29E+03	--	--	--	4.56E+06	2.83E-04	29.36%
100-K-63_Shallow_1	non-Rad	Strontium	7440-24-6	ug/kg	2.76E+04	--	--	--	5.48E+08	5.03E-05	5.22%
100-K-63_Shallow_1	non-Rad	Tin	7440-31-5	ug/kg	9.37E+02	--	--	--	5.48E+08	1.71E-06	0.18%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.69E-12**	**--**	**--**	**9.63E-04**	**--**
100-K-63_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	2.30E-02	5.72E+01	4.02E-08	6.86%	--	--	--
100-K-63_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	1.94E-01	6.39E+01	3.03E-07	51.70%	--	--	--
100-K-63_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	1.60E-01	8.00E+01	2.00E-07	34.08%	--	--	--
100-K-63_Shallow_1	Rad	Europium-155	14391-16-3	pCi/g	2.00E-01	5.87E+03	3.40E-09	0.58%	--	--	--
100-K-63_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	2.10E+00	5.28E+03	3.98E-08	6.78%	--	--	--
Total Radiological Risk Estimate							**5.87E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.87E-07**	**--**	**--**	**--**	**--**
100-K-63_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	3.16E+02	--	--	--	3.65E+05	8.66E-04	55.32%
100-K-63_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	6.75E+02	--	--	--	4.56E+06	1.48E-04	9.46%
100-K-63_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	8.74E+02	--	--	--	4.56E+06	1.92E-04	12.24%
100-K-63_Shallow_2	non-Rad	Strontium	7440-24-6	ug/kg	5.61E+04	--	--	--	5.48E+08	1.03E-04	6.55%
100-K-63_Shallow_2	non-Rad	Tin	7440-31-5	ug/kg	4.67E+02	--	--	--	5.48E+08	8.53E-07	0.05%
100-K-63_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.01E+04	--	--	--	2.74E+08	2.56E-04	16.37%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.56E-03**	**--**
100-K-63_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	4.10E-02	5.72E+01	7.17E-08	18.42%	--	--	--
100-K-63_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	9.10E-02	6.39E+01	1.43E-07	36.62%	--	--	--
100-K-63_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.40E-01	8.00E+01	1.75E-07	44.96%	--	--	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Radiological Risk Estimate							**3.89E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.89E-07**	**--**	**--**	**--**	**--**
100-K-77_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	5.70E+01	--	--	--	4.18E+07	1.36E-06	0.04%
100-K-77_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	6.20E+00	--	--	--	2.09E+08	2.96E-08	0.00%
100-K-77_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1.11E+03	--	--	--	3.65E+05	3.04E-03	81.23%
100-K-77_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.35E+01	1.34E+03	1.00E-08	80.18%	2.09E+05	6.43E-05	1.72%
100-K-77_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.54E+01	1.34E+04	1.15E-09	9.19%	--	--	--
100-K-77_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.23E+00	1.34E+05	3.91E-11	0.31%	--	--	--
100-K-77_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.32E+01	1.34E+06	9.84E-12	0.08%	--	--	--
100-K-77_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	3.03E+01	--	--	--	2.79E+07	1.09E-06	0.03%
100-K-77_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	6.80E+00	--	--	--	2.79E+07	2.44E-07	0.01%
100-K-77_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.30E+02	4.11E+07	3.16E-12	0.03%	2.74E+06	4.75E-05	1.27%
100-K-77_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.71E+01	1.34E+04	1.28E-09	10.22%	--	--	--
100-K-77_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1.39E+03	--	--	--	4.56E+06	3.04E-04	8.13%
100-K-77_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.20E+01	--	--	--	2.09E+07	2.01E-06	0.05%
100-K-77_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.27E+02	--	--	--	4.56E+06	2.03E-04	5.43%
100-K-77_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	4.09E+04	--	--	--	5.48E+08	7.47E-05	2.00%
100-K-77_Shallow	non-Rad	Tin	7440-31-5	ug/kg	2.16E+03	--	--	--	5.48E+08	3.95E-06	0.11%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.25E-08**	**--**	**--**	**3.74E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.25E-08**	**--**	**--**	**--**	**--**
100-K-78_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	3.91E+02	--	--	--	3.65E+05	1.07E-03	97.99%
100-K-78_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.37E+09	2.19E-05	2.01%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.09E-03**	**--**
100-K-78_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.66E+00	3.30E+05	5.04E-10	0.09%	--	--	--
100-K-78_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	7.30E-02	5.72E+01	1.28E-07	23.12%	--	--	--
100-K-78_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	2.70E-01	6.39E+01	4.23E-07	76.57%	--	--	--
100-K-78_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.24E+00	6.00E+05	1.21E-09	0.22%	--	--	--
Total Radiological Risk Estimate							**5.52E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.52E-07**	**--**	**--**	**--**	**--**
100-K-84_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.42E+04	--	--	--	3.65E+07	6.63E-04	26.93%
100-K-84_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	4.93E+02	--	--	--	2.74E+05	1.80E-03	73.07%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.46E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-86_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.70E+02	--	--	--	3.65E+05	1.29E-03	96.20%
100-K-86_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.50E+00	1.34E+04	3.36E-10	3.86%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+01	1.34E+03	7.46E-09	85.71%	2.09E+05	4.78E-05	3.57%
100-K-86_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.20E+01	1.34E+04	8.96E-10	10.29%	--	--	--
100-K-86_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.70E+01	1.34E+06	1.27E-11	0.15%	--	--	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-86_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	3.00E+01	--	--	--	2.79E+07	1.08E-06	0.08%
100-K-86_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.30E+01	--	--	--	2.09E+07	2.06E-06	0.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.71E-09**	**--**	**--**	**1.34E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.71E-09**	**--**	**--**	**--**	**--**
100-K-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	8.90E+02	--	--	--	3.65E+05	2.44E-03	82.15%
100-K-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9.50E+03	--	--	--	1.82E+08	5.21E-05	1.75%
100-K-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	9.80E+02	--	--	--	4.56E+06	2.15E-04	7.24%
100-K-88_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.20E+03	--	--	--	4.56E+06	2.63E-04	8.86%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.97E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	4.34E+02	--	--	--	3.65E+05	1.19E-03	75.35%
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.20E+01	1.34E+04	3.13E-09	8.44%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.90E+01	1.34E+03	2.91E-08	78.42%	2.09E+05	1.86E-04	11.81%
100-K-89, 600-29_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.49E+01	1.34E+04	4.84E-09	13.05%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.67E+01	1.34E+06	3.49E-11	0.09%	--	--	--
100-K-89, 600-29_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.79E+01	--	--	--	2.79E+07	3.15E-06	0.20%
100-K-89, 600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.34E+01	--	--	--	2.09E+07	3.03E-06	0.19%
100-K-89, 600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.96E+02	--	--	--	4.56E+06	1.96E-04	12.44%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.71E-08**	**--**	**--**	**1.58E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.71E-08**	**--**	**--**	**--**	**--**
100-K-89, 600-29_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	2.60E+01	--	--	--	2.09E+08	1.24E-07	0.00%
100-K-89, 600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+03	--	--	--	3.65E+05	1.12E-02	84.68%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.90E+02	1.34E+04	1.42E-08	12.71%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.00E+02	1.34E+03	7.46E-08	66.91%	2.09E+05	4.78E-04	3.60%
100-K-89, 600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.60E+02	1.34E+04	1.94E-08	17.40%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	2.50E+02	1.34E+06	1.87E-10	0.17%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.95E+04	--	--	--	3.65E+07	8.08E-04	6.09%
100-K-89, 600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.30E+02	--	--	--	2.79E+07	1.90E-05	0.14%
100-K-89, 600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	4.20E+01	1.34E+04	3.14E-09	2.81%	--	--	--
100-K-89, 600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.74E+05	5.84E-05	0.44%
100-K-89, 600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.40E+02	--	--	--	2.09E+07	2.10E-05	0.16%
100-K-89, 600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.90E+02	--	--	--	4.56E+06	1.95E-04	1.47%
100-K-89, 600-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.24E+05	--	--	--	2.74E+08	4.53E-04	3.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.12E-07**	**--**	**--**	**1.33E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.12E-07**	**--**	**--**	**--**	**--**
100-K-90_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.70E+01	--	--	--	2.74E+05	6.21E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**6.21E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
100-K-91_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2.70E+03	--	--	--	2.74E+05	9.86E-03	95.98%
100-K-91_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.13E+05	--	--	--	2.74E+08	4.13E-04	4.02%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.03E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
100-K-92_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	7.60E+01	4.52E+05	1.68E-10	96.97%	1.47E+07	5.15E-06	1.13%
100-K-92_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.16E+02	4.11E+07	5.26E-12	3.03%	2.74E+06	7.89E-05	17.28%
100-K-92_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1.70E+03	--	--	--	4.56E+06	3.73E-04	81.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.73E-10**	**--**	**--**	**4.57E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.73E-10**	**--**	**--**	**--**	**--**
100-K-95_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.91E+01	--	--	--	4.18E+07	4.56E-07	0.31%
100-K-95_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.43E+01	1.34E+04	4.05E-09	13.74%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.70E+01	1.34E+03	2.01E-08	68.33%	2.09E+05	1.29E-04	88.29%
100-K-95_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.54E+01	1.34E+04	3.39E-09	11.49%	--	--	--
100-K-95_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.76E+01	1.34E+05	1.31E-10	0.44%	--	--	--
100-K-95_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	5.87E+01	1.34E+06	4.38E-11	0.15%	--	--	--
100-K-95_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1.19E+02	--	--	--	2.79E+07	4.27E-06	2.92%
100-K-95_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	8.90E+00	--	--	--	2.79E+07	3.19E-07	0.22%
100-K-95_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.01E+01	1.34E+04	1.50E-09	5.09%	--	--	--
100-K-95_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	7.11E+04	2.25E-10	0.76%	2.26E+06	7.08E-06	4.85%
100-K-95_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1.04E+02	--	--	--	2.09E+07	4.99E-06	3.41%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.95E-08**	**--**	**--**	**1.46E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.95E-08**	**--**	**--**	**--**	**--**
116-K-1_Overburden	Rad	Europium-152	14683-23-9	pCi/g	2.57E-01	6.39E+01	4.02E-07	96.41%	--	--	--
116-K-1_Overburden	Rad	Strontium-90	10098-97-2	pCi/g	7.89E-01	5.28E+03	1.50E-08	3.59%	--	--	--
Total Radiological Risk Estimate							**4.17E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.17E-07**	**--**	**--**	**--**	**--**
116-K-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.60E+02	4.11E+07	6.33E-12	100.00%	2.74E+06	9.50E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.33E-12**	**--**	**--**	**9.50E-05**	**--**
116-K-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.24E+00	9.82E+01	1.26E-06	73.61%	--	--	--
116-K-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	3.80E-02	5.72E+01	6.65E-08	3.88%	--	--	--
116-K-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.25E-01	6.39E+01	3.53E-07	20.59%	--	--	--
116-K-1_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	1.74E+00	5.28E+03	3.31E-08	1.93%	--	--	--
Total Radiological Risk Estimate							**1.71E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.71E-06**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-K-2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.92E+02	4.11E+07	7.10E-12	100.00%	2.74E+06	1.07E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.10E-12**	--	--	**1.07E-04**	--
116-K-2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	1.91E-01	6.39E+01	2.98E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**2.98E-07**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**2.98E-07**	--	--	--	--
116-K-2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	6.70E+02	4.11E+07	1.63E-11	100.00%	2.74E+06	2.45E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.63E-11**	--	--	**2.45E-04**	--
116-K-2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	2.98E+00	3.30E+05	9.04E-10	0.17%	--	--	--
116-K-2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	3.46E-01	6.39E+01	5.42E-07	98.93%	--	--	--
116-K-2_Shallow_1	Rad	Nickel-63	13981-37-8	pCi/g	7.83E+00	6.00E+05	1.31E-09	0.24%	--	--	--
116-K-2_Shallow_1	Rad	Strontium-90	10098-97-2	pCi/g	1.94E-01	5.28E+03	3.68E-09	0.67%	--	--	--
Total Radiological Risk Estimate							**5.48E-07**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**5.48E-07**	--	--	--	--
116-K-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.50E+02	4.11E+07	6.09E-12	100.00%	2.74E+06	9.14E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**6.09E-12**	--	--	**9.14E-05**	--
116-K-2_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.00E+00	9.82E+01	2.04E-06	61.32%	--	--	--
116-K-2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	6.84E-01	6.39E+01	1.07E-06	32.20%	--	--	--
116-K-2_Shallow_2	Rad	Europium-154	15585-10-1	pCi/g	1.72E-01	8.00E+01	2.15E-07	6.46%	--	--	--
116-K-2_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	5.03E+00	6.00E+05	8.39E-10	0.03%	--	--	--
Total Radiological Risk Estimate							**3.32E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**3.32E-06**	--	--	--	--
116-KE-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.21E+03	4.11E+07	2.95E-11	100.00%	2.74E+06	4.42E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.95E-11**	--	--	**4.42E-04**	--
116-KE-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	8.60E-02	5.72E+01	1.50E-07	10.22%	--	--	--
116-KE-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	6.91E-01	6.39E+01	1.08E-06	73.51%	--	--	--
116-KE-4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	1.88E-01	8.00E+01	2.35E-07	15.95%	--	--	--
116-KE-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.99E+00	6.00E+05	8.33E-10	0.06%	--	--	--
116-KE-4_Shallow	Rad	Strontium-90	10098-97-2	pCi/g	2.05E-01	5.28E+03	3.89E-09	0.26%	--	--	--
Total Radiological Risk Estimate							**1.47E-06**	--	--	--	--
Total Non-Radiological and Radiological Risk Estimate							**1.47E-06**	--	--	--	--
116-KE-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3.00E+04	--	--	--	1.37E+09	2.19E-05	3.79%
116-KE-5_Shallow_Focused	non-Rad	Ethylene glycol	107-21-1	ug/kg	5.90E+04	--	--	--	9.30E+08	6.35E-05	10.97%
116-KE-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3.30E+02	4.11E+07	8.03E-12	100.00%	2.74E+06	1.21E-04	20.84%
116-KE-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.02E+02	--	--	--	2.74E+05	3.73E-04	64.40%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**8.03E-12**	--	--	**5.79E-04**	--
Total Non-Radiological and Radiological Risk Estimate							**8.03E-12**	--	--	--	--

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
116-KW-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5.43E+02	4.11E+07	1.32E-11	100.00%	2.74E+06	1.98E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.32E-11**	**--**	**--**	**1.98E-04**	**--**
116-KW-3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	5.32E-01	2.77E+03	1.92E-08	0.66%	--	--	--
116-KW-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	1.02E-01	5.72E+01	1.78E-07	6.08%	--	--	--
116-KW-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.52E+00	6.39E+01	2.38E-06	81.19%	--	--	--
116-KW-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	2.65E-01	8.00E+01	3.31E-07	11.30%	--	--	--
116-KW-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	9.18E-01	4.04E+03	2.27E-08	0.78%	--	--	--
Total Radiological Risk Estimate							**2.93E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.93E-06**	**--**	**--**	**--**	**--**
116-KW-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2.40E+02	4.11E+07	5.84E-12	100.00%	2.74E+06	8.77E-05	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.84E-12**	**--**	**--**	**8.77E-05**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.84E-12**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.56E+06	1.29E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.29E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.65E+07	6.10E-04	57.80%
118-K-1_P1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	7.76E+02	--	--	--	4.56E+06	1.70E-04	16.11%
118-K-1_P1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	7.54E+04	--	--	--	2.74E+08	2.75E-04	26.09%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.06E-03**	**--**
118-K-1_P1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	3.28E-01	6.39E+01	5.14E-07	100.00%	--	--	--
Total Radiological Risk Estimate							**5.14E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.14E-07**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	3.36E+07	--	--	--	6.39E+08	5.26E-02	72.49%
118-K-1_P1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	5.88E+02	--	--	--	4.56E+06	1.29E-04	0.18%
118-K-1_P1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.05E+04	--	--	--	4.56E+06	1.98E-02	27.33%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**7.26E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_4	non-Rad	Antimony	7440-36-0	ug/kg	4.00E+02	--	--	--	3.65E+05	1.10E-03	87.02%
118-K-1_P1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	7.46E+02	--	--	--	4.56E+06	1.63E-04	12.98%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.26E-03**	**--**
118-K-1_P1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	1.33E-01	6.39E+01	2.09E-07	66.50%	--	--	--
118-K-1_P1_Shallow_4	Rad	Strontium-90	10098-97-2	pCi/g	5.55E+00	5.28E+03	1.05E-07	33.50%	--	--	--
Total Radiological Risk Estimate							**3.14E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.14E-07**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P1_Shallow_5	non-Rad	Methylene chloride	75-09-2	ug/kg	6.00E+00	8.20E+05	7.32E-12	100.00%	5.03E+06	1.19E-06	0.82%
118-K-1_P1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.56E+06	1.32E-04	90.91%
118-K-1_P1_Shallow_5	non-Rad	Nitrate	14797-55-8	ug/kg	7.74E+04	--	--	--	6.48E+09	1.20E-05	8.26%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.32E-12**	**--**	**--**	**1.45E-04**	**--**
118-K-1_P1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	2.52E+00	9.82E+01	2.57E-06	94.08%	--	--	--
118-K-1_P1_Shallow_5	Rad	Cobalt-60	10198-40-0	pCi/g	8.20E-02	5.72E+01	1.43E-07	5.26%	--	--	--
118-K-1_P1_Shallow_5	Rad	Plutonium-239/240	PU-239/240	pCi/g	7.30E-02	4.04E+03	1.81E-09	0.07%	--	--	--
118-K-1_P1_Shallow_5	Rad	Strontium-90	10098-97-2	pCi/g	8.60E-01	5.28E+03	1.63E-08	0.60%	--	--	--
Total Radiological Risk Estimate							**2.73E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.73E-06**	**--**	**--**	**--**	**--**
118-K-1_P1_Shallow_Focused_1	non-Rad	Methylene chloride	75-09-2	ug/kg	9.00E+00	8.20E+05	1.10E-11	100.00%	5.03E+06	1.79E-06	1.34%
118-K-1_P1_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	6.00E+02	--	--	--	4.56E+06	1.32E-04	98.66%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.10E-11**	**--**	**--**	**1.33E-04**	**--**
118-K-1_P1_Shallow_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	9.30E-02	2.77E+03	3.35E-09	0.09%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.70E+00	9.82E+01	3.77E-06	98.87%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	8.70E-02	4.04E+03	2.15E-09	0.06%	--	--	--
118-K-1_P1_Shallow_Focused_1	Rad	Strontium-90	10098-97-2	pCi/g	1.99E+00	5.28E+03	3.77E-08	0.99%	--	--	--
Total Radiological Risk Estimate							**3.81E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.81E-06**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	4.52E+00	3.30E+05	1.37E-09	0.22%	--	--	--
118-K-1_P2_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	6.48E+00	1.02E+03	6.33E-07	99.78%	--	--	--
Total Radiological Risk Estimate							**6.35E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.35E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_10	non-Rad	Copper	7440-50-8	ug/kg	2.26E+04	--	--	--	3.65E+07	6.21E-04	64.04%
118-K-1_P2_Shallow_10	non-Rad	Molybdenum	7439-98-7	ug/kg	1.59E+03	--	--	--	4.56E+06	3.48E-04	35.96%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**9.69E-04**	**--**
118-K-1_P2_Shallow_10	Rad	Carbon-14	14762-75-5	pCi/g	8.84E-01	3.30E+05	2.68E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**2.68E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.68E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11A	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.56E+06	1.42E-04	88.41%
118-K-1_P2_Shallow_11A	non-Rad	Nitrate	14797-55-8	ug/kg	1.21E+05	--	--	--	6.48E+09	1.87E-05	11.59%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.61E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11B	non-Rad	Molybdenum	7439-98-7	ug/kg	6.78E+02	--	--	--	4.56E+06	1.49E-04	69.91%
118-K-1_P2_Shallow_11B	non-Rad	Nitrate	14797-55-8	ug/kg	3.91E+05	--	--	--	6.48E+09	6.03E-05	28.38%
118-K-1_P2_Shallow_11B	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.74E+08	3.65E-06	1.72%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.13E-04**	**--**
118-K-1_P2_Shallow_11B	Rad	Carbon-14	14762-75-5	pCi/g	8.77E-01	3.30E+05	2.66E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**2.66E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.66E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11C	non-Rad	Aluminum	7429-90-5	ug/kg	1.26E+07	--	--	--	9.12E+08	1.38E-02	98.00%
118-K-1_P2_Shallow_11C	non-Rad	Mercury	7439-97-6	ug/kg	3.89E+01	--	--	--	2.74E+05	1.42E-04	1.01%
118-K-1_P2_Shallow_11C	non-Rad	Molybdenum	7439-98-7	ug/kg	5.17E+02	--	--	--	4.56E+06	1.13E-04	0.80%
118-K-1_P2_Shallow_11C	non-Rad	Nitrate	14797-55-8	ug/kg	1.69E+05	--	--	--	6.48E+09	2.61E-05	0.19%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.41E-02**	**--**
118-K-1_P2_Shallow_11C	Rad	Carbon-14	14762-75-5	pCi/g	8.70E-01	3.30E+05	2.64E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**2.64E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.64E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11D	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.56E+06	1.23E-04	84.38%
118-K-1_P2_Shallow_11D	non-Rad	Nitrate	14797-55-8	ug/kg	1.48E+05	--	--	--	6.48E+09	2.28E-05	15.62%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.46E-04**	**--**
118-K-1_P2_Shallow_11D	Rad	Carbon-14	14762-75-5	pCi/g	1.15E+00	3.30E+05	3.49E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**3.49E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.49E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11E	non-Rad	Copper	7440-50-8	ug/kg	2.23E+04	--	--	--	3.65E+07	6.12E-04	82.24%
118-K-1_P2_Shallow_11E	non-Rad	Molybdenum	7439-98-7	ug/kg	5.63E+02	--	--	--	4.56E+06	1.23E-04	16.60%
118-K-1_P2_Shallow_11E	non-Rad	Nitrate	14797-55-8	ug/kg	5.60E+04	--	--	--	6.48E+09	8.64E-06	1.16%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**7.44E-04**	**--**
118-K-1_P2_Shallow_11E	Rad	Carbon-14	14762-75-5	pCi/g	2.06E+00	3.30E+05	6.25E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**6.25E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.25E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11F	non-Rad	Mercury	7439-97-6	ug/kg	2.18E+01	--	--	--	2.74E+05	7.96E-05	28.09%
118-K-1_P2_Shallow_11F	non-Rad	Molybdenum	7439-98-7	ug/kg	8.84E+02	--	--	--	4.56E+06	1.94E-04	68.36%
118-K-1_P2_Shallow_11F	non-Rad	Nitrate	14797-55-8	ug/kg	6.51E+04	--	--	--	6.48E+09	1.00E-05	3.54%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.83E-04**	**--**
118-K-1_P2_Shallow_11F	Rad	Carbon-14	14762-75-5	pCi/g	1.31E+00	3.30E+05	3.98E-10	0.11%	--	--	--
118-K-1_P2_Shallow_11F	Rad	Tritium	10028-17-8	pCi/g	3.69E+00	1.02E+03	3.61E-07	99.89%	--	--	--
Total Radiological Risk Estimate							**3.61E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.61E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11G	non-Rad	Molybdenum	7439-98-7	ug/kg	5.82E+02	--	--	--	4.56E+06	1.28E-04	0.68%
118-K-1_P2_Shallow_11G	non-Rad	Vanadium	7440-62-2	ug/kg	8.54E+04	--	--	--	4.56E+06	1.87E-02	99.32%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.88E-02**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_11G	Rad	Carbon-14	14762-75-5	pCi/g	1.88E+00	3.30E+05	5.70E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**5.70E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.70E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_11H	non-Rad	Molybdenum	7439-98-7	ug/kg	4.88E+02	--	--	--	4.56E+06	1.07E-04	100.00%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**1.07E-04**	**--**
118-K-1_P2_Shallow_11H	Rad	Carbon-14	14762-75-5	pCi/g	1.61E+00	3.30E+05	4.89E-10	0.11%	--	--	--
118-K-1_P2_Shallow_11H	Rad	Europium-152	14683-23-9	pCi/g	2.87E-01	6.39E+01	4.49E-07	99.89%	--	--	--
Total Radiological Risk Estimate							**4.50E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.50E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.00E+00	3.30E+05	3.03E-10	0.08%	--	--	--
118-K-1_P2_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	2.28E-01	6.39E+01	3.57E-07	99.92%	--	--	--
Total Radiological Risk Estimate							**3.57E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.57E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	1.18E+00	3.30E+05	3.58E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**3.58E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.58E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_4	Rad	Carbon-14	14762-75-5	pCi/g	8.58E-01	3.30E+05	2.60E-10	0.05%	--	--	--
118-K-1_P2_Shallow_4	Rad	Cobalt-60	10198-40-0	pCi/g	2.72E-01	5.72E+01	4.76E-07	99.95%	--	--	--
Total Radiological Risk Estimate							**4.76E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.76E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	5.78E+01	--	--	--	2.74E+05	2.11E-04	63.66%
118-K-1_P2_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.56E+06	1.21E-04	36.34%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**3.32E-04**	**--**
118-K-1_P2_Shallow_5	Rad	Carbon-14	14762-75-5	pCi/g	7.93E-01	3.30E+05	2.41E-10	0.05%	--	--	--
118-K-1_P2_Shallow_5	Rad	Europium-152	14683-23-9	pCi/g	3.21E-01	6.39E+01	5.03E-07	99.95%	--	--	--
Total Radiological Risk Estimate							**5.03E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.03E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_6	Rad	Carbon-14	14762-75-5	pCi/g	8.12E-01	3.30E+05	2.46E-10	0.02%	--	--	--
118-K-1_P2_Shallow_6	Rad	Europium-152	14683-23-9	pCi/g	1.98E-01	6.39E+01	3.10E-07	27.68%	--	--	--
118-K-1_P2_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	8.29E+00	1.02E+03	8.10E-07	72.30%	--	--	--
Total Radiological Risk Estimate							**1.12E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.12E-06**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
118-K-1_P2_Shallow_7	non-Rad	Antimony	7440-36-0	ug/kg	1.63E+04	--	--	--	3.65E+05	4.47E-02	96.72%
118-K-1_P2_Shallow_7	non-Rad	Copper	7440-50-8	ug/kg	2.25E+04	--	--	--	3.65E+07	6.16E-04	1.34%
118-K-1_P2_Shallow_7	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	7.61E+01	--	--	--	7.37E+07	1.03E-06	0.00%
118-K-1_P2_Shallow_7	non-Rad	Mercury	7439-97-6	ug/kg	1.29E+02	--	--	--	2.74E+05	4.71E-04	1.02%
118-K-1_P2_Shallow_7	non-Rad	Molybdenum	7439-98-7	ug/kg	6.50E+02	--	--	--	4.56E+06	1.42E-04	0.31%
118-K-1_P2_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	7.72E+04	--	--	--	2.74E+08	2.82E-04	0.61%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**4.62E-02**	**--**
118-K-1_P2_Shallow_7	Rad	Carbon-14	14762-75-5	pCi/g	1.16E+00	3.30E+05	3.52E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**3.52E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.52E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_8	Rad	Carbon-14	14762-75-5	pCi/g	1.30E+00	3.30E+05	3.95E-10	0.12%	--	--	--
118-K-1_P2_Shallow_8	Rad	Tritium	10028-17-8	pCi/g	3.43E+00	1.02E+03	3.35E-07	99.88%	--	--	--
Total Radiological Risk Estimate							**3.36E-07**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.36E-07**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_9	non-Rad	Mercury	7439-97-6	ug/kg	2.12E+01	--	--	--	2.74E+05	7.74E-05	30.09%
118-K-1_P2_Shallow_9	non-Rad	Molybdenum	7439-98-7	ug/kg	6.41E+02	--	--	--	4.56E+06	1.41E-04	54.63%
118-K-1_P2_Shallow_9	non-Rad	Nitrate	14797-55-8	ug/kg	2.31E+05	--	--	--	6.48E+09	3.57E-05	13.86%
118-K-1_P2_Shallow_9	non-Rad	Nitrite	14797-65-0	ug/kg	1.00E+03	--	--	--	2.74E+08	3.65E-06	1.42%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.57E-04**	**--**
118-K-1_P2_Shallow_9	Rad	Europium-152	14683-23-9	pCi/g	5.30E-02	6.39E+01	8.30E-08	100.00%	--	--	--
Total Radiological Risk Estimate							**8.30E-08**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**8.30E-08**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_3	non-Rad	Antimony	7440-36-0	ug/kg	3.69E+02	--	--	--	3.65E+05	1.01E-03	1.29%
118-K-1_P2_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	3.44E+07	--	--	--	6.39E+08	5.39E-02	68.92%
118-K-1_P2_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4.81E+02	--	--	--	4.56E+06	1.05E-04	0.13%
118-K-1_P2_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	2.65E+04	3.68E+10	7.21E-13	100.00%	1.82E+07	1.45E-03	1.86%
118-K-1_P2_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	9.91E+04	--	--	--	4.56E+06	2.17E-02	27.80%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**7.21E-13**	**--**	**--**	**7.81E-02**	**--**
118-K-1_P2_Shallow_Focused_3	Rad	Carbon-14	14762-75-5	pCi/g	1.72E+00	3.30E+05	5.22E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**5.22E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.23E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_4	Rad	Carbon-14	14762-75-5	pCi/g	3.08E+00	3.30E+05	9.35E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**9.35E-10**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**9.35E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_5	Rad	Carbon-14	14762-75-5	pCi/g	1.33E+00	3.30E+05	4.04E-10	100.00%	--	--	--
Total Radiological Risk Estimate							**4.04E-10**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
Total Non-Radiological and Radiological Risk Estimate							**4.04E-10**	**--**	**--**	**--**	**--**
118-K-1_P2_Shallow_Focused_6	non-Rad	Chromium	7440-47-3	ug/kg	2.03E+04	--	--	--	1.37E+09	1.48E-05	1.31%
118-K-1_P2_Shallow_Focused_6	non-Rad	Nickel	7440-02-0	ug/kg	2.04E+04	3.68E+10	5.55E-13	100.00%	1.82E+07	1.12E-03	98.69%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.55E-13**	**--**	**--**	**1.13E-03**	**--**
118-K-1_P2_Shallow_Focused_6	Rad	Tritium	10028-17-8	pCi/g	1.17E+01	1.02E+03	1.14E-06	100.00%	--	--	--
Total Radiological Risk Estimate							**1.14E-06**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.14E-06**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Selenium	7782-49-2	ug/kg	1.02E+03	--	--	--	4.56E+06	2.24E-04	79.35%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Strontium	7440-24-6	ug/kg	3.13E+04	--	--	--	5.48E+08	5.72E-05	20.29%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	non-Rad	Tin	7440-31-5	ug/kg	5.56E+02	--	--	--	5.48E+08	1.02E-06	0.36%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.82E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Antimony	7440-36-0	ug/kg	6.11E+02	--	--	--	3.65E+05	1.67E-03	80.95%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Mercury	7439-97-6	ug/kg	8.89E+01	--	--	--	2.74E+05	3.25E-04	15.70%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Strontium	7440-24-6	ug/kg	3.74E+04	--	--	--	5.48E+08	6.83E-05	3.30%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	non-Rad	Tin	7440-31-5	ug/kg	5.87E+02	--	--	--	5.48E+08	1.07E-06	0.05%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.07E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1.08E+02	4.11E+07	2.63E-12	100.00%	2.74E+06	3.95E-05	8.48%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.59E+02	--	--	--	4.56E+06	1.22E-04	26.27%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1.12E+03	--	--	--	4.56E+06	2.45E-04	52.64%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.16E+04	--	--	--	5.48E+08	5.78E-05	12.40%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.68E+02	--	--	--	5.48E+08	1.04E-06	0.22%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.63E-12**	**--**	**--**	**4.66E-04**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.63E-12**	**--**	**--**	**--**	**--**
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5.10E+03	--	--	--	1.82E+08	2.79E-05	0.13%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	3.49E+04	--	--	--	3.65E+07	9.56E-04	4.32%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	6.10E+02	--	--	--	4.56E+06	1.34E-04	0.60%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	2.00E+03	--	--	--	4.56E+06	4.38E-04	1.98%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	4.39E+04	--	--	--	5.48E+08	8.02E-05	0.36%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	6.00E+02	--	--	--	5.48E+08	1.10E-06	0.00%
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	9.36E+04	--	--	--	4.56E+06	2.05E-02	92.61%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**2.22E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**0.00E+00**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-1_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	6.70E+02	--	--	--	2.09E+08	3.20E-06	0.02%
128-K-1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.30E+03	1.34E+04	6.20E-07	14.35%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.90E+03	1.34E+03	2.16E-06	50.13%	2.09E+05	1.39E-02	90.57%
128-K-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.10E+03	1.34E+04	4.55E-07	10.55%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.10E+03	1.34E+05	3.06E-08	0.71%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	8.70E+02	4.52E+05	1.92E-09	0.04%	1.47E+07	5.90E-05	0.39%
128-K-1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.10E+04	1.34E+06	8.21E-09	0.19%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.20E+03	1.34E+03	8.96E-07	20.74%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.10E+04	--	--	--	2.79E+07	3.94E-04	2.58%
128-K-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4.80E+02	4.11E+07	1.17E-11	0.00%	2.74E+06	1.75E-04	1.15%
128-K-1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.90E+03	1.34E+04	1.42E-07	3.28%	--	--	--
128-K-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	3.00E+01	--	--	--	2.74E+05	1.10E-04	0.72%
128-K-1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.10E+04	--	--	--	2.09E+07	5.26E-04	3.44%
128-K-1_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	8.00E+02	--	--	--	4.56E+06	1.75E-04	1.15%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.32E-06**	**--**	**--**	**1.53E-02**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.32E-06**	**--**	**--**	**--**	**--**
128-K-2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	1.80E+01	--	--	--	4.18E+07	4.30E-07	0.02%
128-K-2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	1.02E+01	--	--	--	7.90E+08	1.29E-08	0.00%
128-K-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	1.06E+01	--	--	--	2.09E+08	5.08E-08	0.00%
128-K-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.00E+02	--	--	--	3.65E+05	1.37E-03	55.72%
128-K-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	2.67E+01	1.34E+04	1.99E-09	5.10%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	2.80E+01	1.34E+03	2.09E-08	53.65%	2.09E+05	1.34E-04	5.45%
128-K-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.31E+01	1.34E+04	2.47E-09	6.34%	--	--	--
128-K-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	9.36E+00	1.34E+05	6.99E-11	0.18%	--	--	--
128-K-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1.39E+01	1.34E+06	1.04E-11	0.03%	--	--	--
128-K-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.37E+04	--	--	--	3.65E+07	6.49E-04	26.41%
128-K-2_Shallow	non-Rad	Dibenz(a,h)anthracene	53-70-3	ug/kg	1.60E+01	1.34E+03	1.19E-08	30.64%	--	--	--
128-K-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4.08E+01	--	--	--	2.79E+07	1.46E-06	0.06%
128-K-2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.40E+01	--	--	--	2.79E+07	5.02E-07	0.02%
128-K-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.81E+01	1.34E+04	1.35E-09	3.47%	--	--	--
128-K-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.20E+01	--	--	--	2.74E+05	8.04E-05	3.27%
128-K-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	1.60E+01	7.11E+04	2.25E-10	0.58%	2.26E+06	7.08E-06	0.29%
128-K-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	4.19E+01	--	--	--	2.09E+07	2.00E-06	0.08%
128-K-2_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.73E+02	--	--	--	4.56E+06	2.13E-04	8.68%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**3.90E-08**	**--**	**--**	**2.46E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**3.90E-08**	**--**	**--**	**--**	**--**
128-K-2_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	1.00E+01	--	--	--	7.90E+08	1.27E-08	0.00%
128-K-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.10E+02	--	--	--	3.65E+05	1.12E-03	24.91%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.40E+00	2.91E+03	1.86E-09	6.63%	1.37E+04	3.94E-04	8.74%
128-K-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.00E+01	2.91E+03	1.72E-08	61.39%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.00E+01	1.34E+04	7.46E-10	2.67%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.50E+00	1.34E+03	7.09E-09	25.33%	2.09E+05	4.54E-05	1.01%

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
128-K-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1.40E+01	1.34E+04	1.05E-09	3.73%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	7.80E+00	1.34E+05	5.82E-11	0.21%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.20E+01	1.34E+06	8.96E-12	0.03%	--	--	--
128-K-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	7.36E+04	--	--	--	3.65E+07	2.02E-03	44.72%
128-K-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2.90E+01	--	--	--	2.79E+07	1.04E-06	0.02%
128-K-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.00E+02	--	--	--	2.74E+05	3.65E-04	8.10%
128-K-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1.80E+01	--	--	--	2.09E+07	8.60E-07	0.02%
128-K-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1.10E+03	--	--	--	4.56E+06	2.41E-04	5.35%
128-K-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	8.80E+04	--	--	--	2.74E+08	3.21E-04	7.13%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**2.80E-08**	**--**	**--**	**4.51E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**2.80E-08**	**--**	**--**	**--**	**--**
132-KE-1_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.15E+04	--	--	--	5.48E+08	5.75E-05	98.46%
132-KE-1_Shallow	non-Rad	Tin	7440-31-5	ug/kg	4.94E+02	--	--	--	5.48E+08	9.02E-07	1.54%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**0.00E+00**	**--**	**--**	**5.84E-05**	**--**
132-KE-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	4.00E-02	2.77E+03	1.44E-09	21.04%	--	--	--
132-KE-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.45E+01	3.30E+05	4.40E-09	64.16%	--	--	--
132-KE-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.10E-02	4.04E+03	1.01E-09	14.79%	--	--	--
Total Radiological Risk Estimate							**6.86E-09**	**--**	**--**	**--**	**--**
Total Non-Radiological and Radiological Risk Estimate							**6.86E-09**	**--**	**--**	**--**	**--**
1607-K3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	1.20E+01	2.91E+03	4.12E-09	100.00%	1.37E+04	8.76E-04	50.40%
1607-K3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	2.22E+04	--	--	--	1.37E+09	1.62E-05	0.93%
1607-K3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	5.85E+01	--	--	--	2.74E+05	2.14E-04	12.29%
1607-K3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	5.50E+02	--	--	--	4.56E+06	1.21E-04	6.94%
1607-K3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	8.86E+02	--	--	--	4.56E+06	1.94E-04	11.17%
1607-K3_Shallow	non-Rad	Strontium	7440-24-6	ug/kg	3.55E+04	--	--	--	5.48E+08	6.48E-05	3.73%
1607-K3_Shallow	non-Rad	Tin	7440-31-5	ug/kg	5.49E+02	--	--	--	5.48E+08	1.00E-06	0.06%
1607-K3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	6.89E+04	--	--	--	2.74E+08	2.52E-04	14.48%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**4.12E-09**	**--**	**--**	**1.74E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**4.12E-09**	**--**	**--**	**--**	**--**
600-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	5.20E+02	--	--	--	3.65E+05	1.42E-03	29.54%
600-29_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.70E+01	1.34E+03	5.00E-08	99.48%	2.09E+05	3.20E-04	6.64%
600-29_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.03E+02	4.52E+05	2.28E-10	0.45%	1.47E+07	6.98E-06	0.14%
600-29_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.60E+01	1.34E+06	3.43E-11	0.07%	--	--	--
600-29_Shallow	non-Rad	Copper	7440-50-8	ug/kg	2.62E+04	--	--	--	3.65E+07	7.19E-04	14.91%
600-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2.16E+01	--	--	--	2.74E+05	7.89E-05	1.64%
600-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	3.75E+04	3.68E+10	1.02E-12	0.00%	1.82E+07	2.05E-03	42.57%
600-29_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	8.70E+01	--	--	--	2.09E+07	4.16E-06	0.09%
600-29_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	9.85E+02	--	--	--	4.56E+06	2.16E-04	4.48%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**5.03E-08**	**--**	**--**	**4.82E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**5.03E-08**	**--**	**--**	**--**	**--**

Table B-20. Casual User Scenario Risk Estimates and Noncancer Hazards for 100-K Source OUs Waste Site Decision Units Without Background Contribution

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	EPC	Cancer Effects PRG	Cancer Risk Estimate	Percent Contribution	Noncancer Effects PRG	Noncancer Hazard Quotient	Percent Contribution
600-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	4.50E+02	--	--	--	3.65E+05	1.23E-03	42.20%
600-29_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.20E+01	1.34E+04	5.37E-09	4.55%	--	--	--
600-29_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.20E+02	1.34E+03	8.96E-08	75.83%	2.09E+05	5.74E-04	19.63%
600-29_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.10E+02	1.34E+04	1.57E-08	13.27%	--	--	--
600-29_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1.20E+02	4.52E+05	2.65E-10	0.22%	1.47E+07	8.14E-06	0.28%
600-29_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	9.00E+01	1.34E+06	6.72E-11	0.06%	--	--	--
600-29_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	2.89E+04	--	--	--	3.65E+07	7.92E-04	27.10%
600-29_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	2.40E+02	--	--	--	7.37E+07	3.25E-06	0.11%
600-29_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.00E+02	--	--	--	2.79E+07	3.58E-06	0.12%
600-29_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.60E+01	1.34E+04	7.17E-09	6.07%	--	--	--
600-29_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1.60E+01	--	--	--	2.74E+05	5.84E-05	2.00%
600-29_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	9.60E+01	--	--	--	2.09E+07	4.59E-06	0.16%
600-29_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	9.40E+02	--	--	--	4.56E+06	2.06E-04	7.05%
600-29_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	1.80E+02	--	--	--	4.56E+06	3.95E-05	1.35%
Total Non-Radiological Risk Estimate and Hazard Index Estimate							**1.18E-07**	**--**	**--**	**2.92E-03**	**--**
Total Non-Radiological and Radiological Risk Estimate							**1.18E-07**	**--**	**--**	**--**	**--**

Table B-21. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-102_Shallow_1	3.63E-12	--	0.00E+00	--	3.63E-12	2.13E-02	--
100-K-102_Shallow_2	1.81E-13	--	0.00E+00	--	1.81E-13	6.85E-03	--
100-K-102_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.60E-02	--
100-K-105_Shallow_1	7.06E-12	--	0.00E+00	--	7.06E-12	1.55E-04	--
100-K-105_Shallow_2	5.60E-12	--	0.00E+00	--	5.60E-12	1.27E-04	--
100-K-105_Shallow_3	3.89E-12	--	0.00E+00	--	3.89E-12	1.12E-04	--
100-K-106_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	3.80E-05	--
100-K-106_Shallow_Focused_1	0.00E+00	--	0.00E+00	--	0.00E+00	4.07E-05	--
100-K-106_Shallow_Focused_2	0.00E+00	--	0.00E+00	--	0.00E+00	1.45E-04	--
100-K-106_Shallow_Focused_3	0.00E+00	--	0.00E+00	--	0.00E+00	1.57E-04	--
100-K-106_Shallow_Focused_4	0.00E+00	--	0.00E+00	--	0.00E+00	3.53E-05	--
100-K-106_Shallow_Focused_5	0.00E+00	--	0.00E+00	--	0.00E+00	5.53E-05	--
100-K-106_Shallow_Focused_6	0.00E+00	--	0.00E+00	--	0.00E+00	4.61E-05	--
100-K-109_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	6.55E-04	--
100-K-109_Shallow_Focused	4.06E-12	--	0.00E+00	--	4.06E-12	6.75E-04	--
100-K-110_Shallow	4.84E-12	--	0.00E+00	--	4.84E-12	6.71E-02	--
100-K-110_Shallow_focused	3.52E-13	--	0.00E+00	--	3.52E-13	2.65E-03	--
100-K-14, 126-KE-2_Shallow	4.10E-13	--	0.00E+00	--	4.10E-13	3.66E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow	5.66E-12	--	0.00E+00	--	5.66E-12	1.99E-02	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Shallow_Focused	1.86E-11	--	0.00E+00	--	1.86E-11	1.86E-03	--
100-K-29_Shallow_Focused	3.38E-08	--	0.00E+00	--	3.38E-08	8.52E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow	9.40E-08	--	2.37E-07	--	3.31E-07	2.97E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_2	1.29E-08	--	0.00E+00	--	1.29E-08	9.72E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_3	7.46E-10	--	7.58E-10	--	1.50E-09	6.35E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_4	0.00E+00	--	0.00E+00	--	0.00E+00	4.73E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P10	1.41E-08	--	0.00E+00	--	1.41E-08	1.47E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P11	9.93E-08	--	0.00E+00	--	9.93E-08	3.71E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P16	1.33E-07	--	7.94E-10	--	1.34E-07	1.59E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P17	3.41E-08	--	0.00E+00	--	3.41E-08	2.23E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P18	2.73E-09	--	7.94E-10	--	3.52E-09	6.86E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P19	8.21E-10	--	0.00E+00	--	8.21E-10	6.09E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P20	1.83E-07	--	0.00E+00	--	1.83E-07	7.47E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P21	8.88E-09	--	3.39E-08	--	4.28E-08	9.97E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P25	0.00E+00	--	0.00E+00	--	0.00E+00	4.02E-05	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Focused_P9	8.00E-08	--	1.08E-09	--	8.11E-08	5.51E-04	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_P3P6	2.15E-08	--	0.00E+00	--	2.15E-08	2.16E-03	--
100-K-3, 100-K-36, 100-K-79:7_Shallow_Sewer	1.10E-07	--	0.00E+00	--	1.10E-07	1.39E-03	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow	0.00E+00	--	2.16E-06	--	2.16E-06	5.90E-04	--

Table B-21. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_2	1.37E-08	--	0.00E+00	--	1.37E-08	4.74E-04	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Shallow_Focused_3	5.45E-08	--	2.02E-06	--	2.07E-06	5.46E-03	--
100-K-3_Shallow_1	0.00E+00	--	6.91E-07	--	6.91E-07	1.58E-03	--
100-K-3_Shallow_2	0.00E+00	--	1.40E-08	--	1.40E-08	6.02E-05	--
100-K-30_Shallow_Focused	1.72E-11	--	0.00E+00	--	1.72E-11	6.50E-02	--
100-K-31_Shallow_Focused	5.50E-12	--	0.00E+00	--	5.50E-12	2.09E-02	--
100-K-32_Shallow_Focused	5.60E-12	--	0.00E+00	--	5.60E-12	5.01E-02	--
100-K-33_Shallow_Focused	3.43E-11	--	0.00E+00	--	3.43E-11	2.66E-02	--
100-K-34, 100-K-102, 1607-K3_Shallow	3.59E-12	--	0.00E+00	--	3.59E-12	3.96E-03	--
100-K-34, 100-K-102, 1607-K3_Shallow_Focused	1.79E-13	--	0.00E+00	--	1.79E-13	4.43E-02	--
100-K-34_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	2.11E-02	--
100-K-36_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	6.02E-05	--
100-K-4_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	1.49E-03	--
100-K-50, 1607-K2_Shallow	1.37E-07	--	0.00E+00	--	1.37E-07	7.45E-03	--
100-K-53_Shallow	2.48E-12	--	1.18E-06	--	1.18E-06	1.27E-03	--
100-K-55:1_Shallow	0.00E+00	--	2.23E-06	--	2.23E-06	0.00E+00	--
100-K-55:1_Shallow_Focused	0.00E+00	--	2.47E-06	--	2.47E-06	0.00E+00	--
100-K-56:1_Shallow	0.00E+00	--	5.46E-06	--	5.46E-06	0.00E+00	--
100-K-56:1_Shallow_Focused	2.28E-11	--	5.55E-06	--	5.55E-06	3.42E-04	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_1	0.00E+00	--	2.44E-06	--	2.44E-06	1.61E-04	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Shallow_2	0.00E+00	--	1.67E-05	--	1.67E-05	1.96E-04	--
100-K-6_Shallow	0.00E+00	--	1.36E-08	--	1.36E-08	5.71E-05	--
100-K-62_Shallow	0.00E+00	--	3.24E-08	--	3.24E-08	4.25E-05	--
100-K-63_Shallow_1	3.69E-12	--	5.87E-07	--	5.87E-07	9.63E-04	--
100-K-63_Shallow_2	0.00E+00	--	3.89E-07	--	3.89E-07	1.56E-03	--
100-K-77_Shallow	1.25E-08	--	0.00E+00	--	1.25E-08	3.74E-03	--
100-K-78_Shallow_Focused	0.00E+00	--	5.52E-07	--	5.52E-07	1.09E-03	--
100-K-84_Shallow	0.00E+00	--	0.00E+00	--	0.00E+00	2.46E-03	--
100-K-85_Shallow_Focused	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
100-K-86_Shallow_Focused	8.71E-09	--	0.00E+00	--	8.71E-09	1.34E-03	--
100-K-88_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.97E-03	--
100-K-89, 600-29_Shallow	3.71E-08	--	0.00E+00	--	3.71E-08	1.58E-03	--
100-K-89, 600-29_Shallow_Focused	1.12E-07	--	0.00E+00	--	1.12E-07	1.33E-02	--
100-K-90_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	6.21E-05	--
100-K-91_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	1.03E-02	--
100-K-92_Shallow_Focused	1.73E-10	--	0.00E+00	--	1.73E-10	4.57E-04	--
100-K-95_Shallow	2.95E-08	--	0.00E+00	--	2.95E-08	1.46E-04	--
116-K-1_Shallow	6.33E-12	--	1.71E-06	--	1.71E-06	9.50E-05	--

Table B-21. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
116-K-2_Shallow_1	1.63E-11	--	5.48E-07	--	5.48E-07	2.45E-04	--
116-K-2_Shallow_2	6.09E-12	--	3.32E-06	--	3.32E-06	9.14E-05	--
116-KE-4_Shallow	2.95E-11	--	1.47E-06	--	1.47E-06	4.42E-04	--
116-KE-5_Shallow_Focused	8.03E-12	--	0.00E+00	--	8.03E-12	5.79E-04	--
116-KW-3_Shallow	1.32E-11	--	2.93E-06	--	2.93E-06	1.98E-04	--
116-KW-4_Shallow_Focused	5.84E-12	--	0.00E+00	--	5.84E-12	8.77E-05	--
118-K-1_P1_Shallow_1	0.00E+00	--	0.00E+00	--	0.00E+00	1.29E-04	--
118-K-1_P1_Shallow_2	0.00E+00	--	5.14E-07	--	5.14E-07	1.06E-03	--
118-K-1_P1_Shallow_3	0.00E+00	--	0.00E+00	--	0.00E+00	7.26E-02	--
118-K-1_P1_Shallow_4	0.00E+00	--	3.14E-07	--	3.14E-07	1.26E-03	--
118-K-1_P1_Shallow_5	7.32E-12	--	2.73E-06	--	2.73E-06	1.45E-04	--
118-K-1_P1_Shallow_Focused_1	1.10E-11	--	3.81E-06	--	3.81E-06	1.33E-04	--
118-K-1_P2_Shallow_1	0.00E+00	--	6.35E-07	--	6.35E-07	0.00E+00	--
118-K-1_P2_Shallow_10	0.00E+00	--	2.68E-10	--	2.68E-10	9.69E-04	--
118-K-1_P2_Shallow_11A	0.00E+00	--	0.00E+00	--	0.00E+00	1.61E-04	--
118-K-1_P2_Shallow_11B	0.00E+00	--	2.66E-10	--	2.66E-10	2.13E-04	--
118-K-1_P2_Shallow_11C	0.00E+00	--	2.64E-10	--	2.64E-10	1.41E-02	--
118-K-1_P2_Shallow_11D	0.00E+00	--	3.49E-10	--	3.49E-10	1.46E-04	--
118-K-1_P2_Shallow_11E	0.00E+00	--	6.25E-10	--	6.25E-10	7.44E-04	--
118-K-1_P2_Shallow_11F	0.00E+00	--	3.61E-07	--	3.61E-07	2.83E-04	--
118-K-1_P2_Shallow_11G	0.00E+00	--	5.70E-10	--	5.70E-10	1.88E-02	--
118-K-1_P2_Shallow_11H	0.00E+00	--	4.50E-07	--	4.50E-07	1.07E-04	--
118-K-1_P2_Shallow_2	0.00E+00	--	3.57E-07	--	3.57E-07	0.00E+00	--
118-K-1_P2_Shallow_3	0.00E+00	--	3.58E-10	--	3.58E-10	0.00E+00	--
118-K-1_P2_Shallow_4	0.00E+00	--	4.76E-07	--	4.76E-07	0.00E+00	--
118-K-1_P2_Shallow_5	0.00E+00	--	5.03E-07	--	5.03E-07	3.32E-04	--
118-K-1_P2_Shallow_6	0.00E+00	--	1.12E-06	--	1.12E-06	0.00E+00	--
118-K-1_P2_Shallow_7	0.00E+00	--	3.52E-10	--	3.52E-10	4.62E-02	--
118-K-1_P2_Shallow_8	0.00E+00	--	3.36E-07	--	3.36E-07	0.00E+00	--
118-K-1_P2_Shallow_9	0.00E+00	--	8.30E-08	--	8.30E-08	2.57E-04	--
118-K-1_P2_Shallow_Focused_3	7.21E-13	--	5.22E-10	--	5.23E-10	7.81E-02	--
118-K-1_P2_Shallow_Focused_4	0.00E+00	--	9.35E-10	--	9.35E-10	0.00E+00	--
118-K-1_P2_Shallow_Focused_5	0.00E+00	--	4.04E-10	--	4.04E-10	0.00E+00	--
118-K-1_P2_Shallow_Focused_6	5.55E-13	--	1.14E-06	--	1.14E-06	1.13E-03	--
118-K-1_P2_Shallow_Focused_8	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow	2.63E-12	--	0.00E+00	--	2.63E-12	4.66E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Shallow_Focused	0.00E+00	--	0.00E+00	--	0.00E+00	2.22E-02	--
128-K-1_Shallow_Focused	4.32E-06	Benzo(a)pyrene (2.16E-06)	0.00E+00	--	4.32E-06	1.53E-02	--
128-K-2_Shallow	3.90E-08	--	0.00E+00	--	3.90E-08	2.46E-03	--

Table B-21. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Shallow Zone Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
128-K-2_Shallow_Focused	2.80E-08	--	0.00E+00	--	2.80E-08	4.51E-03	--
132-KE-1_Shallow	0.00E+00	--	6.86E-09	--	6.86E-09	5.84E-05	--
1607-K3_Shallow	4.12E-09	--	0.00E+00	--	4.12E-09	1.74E-03	--
600-29_Shallow	5.03E-08	--	0.00E+00	--	5.03E-08	4.82E-03	--
600-29_Shallow_Focused	1.18E-07	--	0.00E+00	--	1.18E-07	2.92E-03	--

Table B-22. Summary of Casual User Scenario Risk Estimates, Noncancer Hazards, and Primary Contributors to Risk For Overburden Decision Units in the 100-K Source OUs Without Background Contribution

Waste Site/Decision Unit	Chemical Cancer Risk	Chemical Risk Drivers	Radiological Cancer Risk	Radiological Risk Drivers	Total Non-Rad and Rad Risk	Non-Cancer Hazard Index	Hazard Drivers
100-K-106_Overburden_1	0.00E+00	--	0.00E+00	--	0.00E+00	5.70E-05	--
100-K-106_Overburden_2	0.00E+00	--	0.00E+00	--	0.00E+00	1.65E-04	--
100-K-106_Overburden_3	0.00E+00	--	0.00E+00	--	0.00E+00	5.48E-05	--
100-K-106_Overburden_Focused_2	0.00E+00	--	0.00E+00	--	0.00E+00	5.45E-05	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5N	0.00E+00	--	0.00E+00	--	0.00E+00	6.93E-04	--
100-K-18, 100-K-19, 100-K-79:1, 100-K-79:2, 100-K-97, 120-KW-5, 120-KW-7_Overburden_5S	4.23E-12	--	0.00E+00	--	4.23E-12	2.25E-02	--
100-K-3, 100-K-68, 100-K-69, 100-K-70, 100-K-71_Overburden	0.00E+00	--	2.36E-07	--	2.36E-07	1.70E-04	--
100-K-34, 100-K-102, 1607-K3_Overburden_11A	0.00E+00	--	0.00E+00	--	0.00E+00	2.04E-03	--
100-K-34, 100-K-102, 1607-K3_Overburden_11B	0.00E+00	--	0.00E+00	--	0.00E+00	5.35E-04	--
100-K-55:1_Overburden	0.00E+00	--	6.93E-07	--	6.93E-07	0.00E+00	--
100-K-6, 100-K-46, 100-K-62, 132-KE-1_Overburden	1.75E-12	--	2.09E-08	--	2.09E-08	1.85E-03	--
116-K-1_Overburden	0.00E+00	--	4.17E-07	--	4.17E-07	0.00E+00	--
116-K-2_Overburden	7.10E-12	--	2.98E-07	--	2.98E-07	1.07E-04	--
118-K-1_Overburden_12	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
118-K-1_Overburden_13	0.00E+00		0.00E+00		0.00E+00	0.00E+00	
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_7	0.00E+00	--	0.00E+00	--	0.00E+00	2.82E-04	--
120-KW-1, 120-KW-2, 120-KW-3, 120-KW-4_Overburden_9	0.00E+00	--	0.00E+00	--	0.00E+00	2.07E-03	--