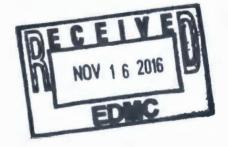


Comparison of 100-BC-1 and 100-BC-2 Source Operable Unit Exposure Point Concentrations to Soil Screening Levels Protective of Groundwater and Soil Screening Levels Protective of Surface Water

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





Approved for Public Release; Further Dissemination Unlimited

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ENVIRONMENTAL CALCULATION COVER PAGE Section 1: Completed by the Responsible Manager Project: 100-BC Remedial Investigation / Feasibility Study RELEASE / ISSUE Date: 03/01/2016 Calculation Title & Description: Comparison of 100-BC-1 and 100-BC-2 Source Operable Unit Exposure Point Concentrations to Soil Screening Levels DATE: Protective of Groundwater and Soil Screening Levels Protective of HANFORD RELEASE Surface Water Oct 19, 2016 Section 2: Completed by Preparer **Revision No.:** Calculation No.: ECF-100BC1-11-0082 **Revision History** ADD ROW Description **Affected Pages** Revision No. Date 05/07/2012 All Initial draft Draft A All Revision includes four additional 03/01/2016 Rev. 0 remediated waste sites. Section 3: Completed by the Responsible Manager **Document Control:** Does document contain scientific and technical information intended for public use? ☐ Yes ⊠ No Does document contain controlled-use information? Section 4: Document Review & Approval Morgans DL Morgans / Senior Risk Assessor Name /Position Date Preparer: 3- 2-2016 M Cobb / Environmental Scientist Name /Position Date Checker: Signature 3 MAR 2016 WE Nichols / Modeling Team Leader Name /Position Signature Date Senior Reviewer: AH Aly / Risk & Model Integr. Mngr. Name /Position Signature Date Responsible Manager: Section 5: Applicable if calculation is a risk assessment or uses an environmental model PRIOR TO INITIATING MODELING: Required training for modelers completed: Not applicable Name /Position Signature Date Integration Lead Safety Software Approved: Not applicable Integration Lead Name /Position Signature Date CALCULATION APPROVED:

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Name /Position

Signature

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Terms

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

EPA Environmental Protection Agency

EPC exposure point concentration

FS feasibility study

OU operable unit

RDL required detection limit

RI remedial investigation

STOMP Subsurface Transport Over Multiple Phases

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1 Purpose

This environmental calculation file (ECF) documents the methodology used to determine if current site conditions for the 100-BC Area based on post-remediation soil sample results exceed scaled soil screening levels for the protection of groundwater and the protection of surface water. The 100-BC Area is associated with two source operable units (OUs): the 100-BC-1 OU and 100-BC-2 OU. These OUs are referred to collectively herein as the 100-BC Source OU. The exposure point concentrations (EPCs) for each waste site decision unit in the 100-BC Source OU are compared to scaled soil screening levels to identify contaminants of potential concern (COPCs) for the protection of the groundwater pathway and for the protection of the surface water pathway. This procedure is consistent with the guidance described in EPA 540/R-96/018, Soil Screening Guidance: User's Guide. The identified COPCs will be used to support the remedial investigation/feasibility study (RI/FS) process being conducted for the 100 Areas and 300 Area under the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA).

This ECF supports DOE/RL-2010-96, Remedial Investigation/Feasibility Study for the 100-BC-1, 100-BC-2, and 100-BC-5 Operable Units, under CERCLA. A summary based upon the comparison of EPCs to soil screening levels described in this ECF will be presented in the RI/FS report.

2 Background

Based on agreements with the Senior Executive Council (DOE/RL-2011-50, Regulatory Basis and Implementation of a Graded Approach to Evaluation of Groundwater Protection), modeling with the STOMP simulator (PNNL-15782, STOMP Subsurface Transport Over Multiple Phases, Version 4: User's Guide) was performed to provide a basis for estimating soil screening levels for groundwater protection and surface water protection. Unit-length soil screening levels for the protection of groundwater and the protection of surface water were estimated using the STOMP 1D 70:30/100:0 Contaminant Source Model, which is a one-dimensional model that assumes either 70 percent contamination of the vadose zone (upper 70 percent contaminated, lower 30 percent uncontaminated [70:30]) or 100 percent contamination of the vadose zone (zero percent uncontaminated [100:0]) beneath a backfilled waste site. Source distributions are assigned based on analyte distribution coefficients (K_d). A 70:30 source distribution is assumed for analytes with a $K_d \ge 2$ mL/g and a 100:0 source distribution is assumed for analytes with a K_d < 2 mL/g. As implemented for determination of soil screening levels, the STOMP 1D 70:30/100:0 Contaminant Source Model includes recharge from irrigation and assumes that all contamination moves downward with no dispersion, volatilization, or credit for mixing with river water.

Comparisons are first conducted between the analyte-specific SSL that is scaled to the waste site dimension in the direction of groundwater flow and EPC values for each waste site decision unit. Comparisons are then conducted between the EPCs and Hanford Site soil background concentrations. Analytes with EPCs that exceed the selected SSL (the higher of the scaled SSL, 90th percentile background concentration, and the required detection limit) are considered COPCs and are carried forward to the RI/FS report.

3 Methodology

This section describes the methodology used to compare EPCs for each waste site decision unit to soil screening levels for ground water protection and surface water protection.

Battelle Memorial Institute (Battelle) retains copyright on all versions, revisions, and operational modes of the Subsurface Transport Over Multiple Phases (STOMP®) software simulator, as permitted by the U.S. Department of Energy. STOMP® is used here under a limited government use license.

Overburden and stockpile (staging pile) decision units are not evaluated under this methodology. While sampled, this material does not remain in the same location but is used in backfilling waste sites. The models used as the basis of soil screening levels for the protection of groundwater and the protection of surface water using the STOMP 1D 70:30/100:0 contaminant source model presume that the sampled concentrations are present uniformly throughout the upper 70% or 100% of the vadose zone below the backfill. However, this assumption is not applicable to overburden and stockpile (staging pile) material, so derived soil screening levels are not appropriate to apply in these instances.

For all detected analytes measured in the 100-BC waste site decision units, the following steps are performed:

- 1. Obtain unit-length soil screening levels for the protection of groundwater and the protection of surface water calculated using the STOMP 1D 70:30/100:0 Contaminant Source model.
- 2. Obtain waste site dimensions parallel to general groundwater flow direction from ECF-100BC5-15-0119, Determination of Representative Lineal Dimensions for 100-BC Operable Unit Waste Site Decision Units for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations. Representative lineal dimensions are provided by two methods in ECF-100BC5-15-0119; equivalent area circle radius and intersecting flow vectors. The intersecting flow vectors method lineal distances are selected for use in this evaluation.
- Divide the unit-length soil screening level by the waste site dimension to obtain a soil screening level
 that is scaled to the representative waste site decision unit dimension in the general direction of
 groundwater flow.
- 4. Obtain EPC values for each waste site decision unit within the 100-BC Source OU.
- 5. Individually compare EPCs for each waste site decision unit within the 100-BC Source OU to soil screening levels for the protection of groundwater and the protection of surface water scaled to the waste site decision unit representative lineal dimension in the general direction of groundwater flow, or directly compare without scaling in the case of total petroleum hydrocarbons or hexavalent chromium as these values are not scaled.

The previous steps are conducted for all detected analytes in the 100-BC Source OU. The following steps are used to provide a list of analytes with EPCs that are greater than the applicable 90th percentile background concentrations.

- 6. Obtain 90th percentile background values.
- 7. Compare the EPC value to the applicable lognormal 90th percentile background value.
- 8. If the EPC is less than or equal to the lognormal 90th percentile background value, then no further comparison is made.
- 9. If the EPC is greater than the lognormal 90th percentile value, then a comparison to soil screening levels scaled to representative lineal dimension in the general direction of groundwater flow, or directly compare without scaling in the case of total petroleum hydrocarbons or hexavalent chromium is made.
- 10. If a lognormal 90th percentile value is not available, then a comparison to soil screening levels scaled to representative lineal dimension in the general direction of groundwater flow, or directly compare without scaling in the case of total petroleum hydrocarbons or hexavalent chromium is made.

- 11. 12. Obtain the required detection limit.
- 12. Determine if the scaled SSL concentration is less than the lognormal 90th percentile background value and the estimated quantitation limit (EQL). If the scaled SSL concentration is less than the lognormal 90th percentile background value and the EQL, then the selected SSL (for groundwater protection or for surface water protection) is established as the higher of the two values. This process is consistent with 2007 MTCA (WAC 173-340-700(6)(d), "Overview of cleanup standards").
- 13. Determine if EPC is greater than the selected soil screening level identified in Step 12. '=
- 14. All analytes reported with an EPC greater than the selected SSL for groundwater protection or selected SSL for surface water protection undergo further evaluation to determine if the EPC represents a uniform distribution or whether it represents a single detection above the SSL. Individual sample concentrations are also reviewed to determine if they are within the range of naturally occurring levels, or if the detections represent laboratory contamination.

Analytes that have EPCs that are greater than the selected soil screening level are considered COPCs and are carried forward to the RI/FS report.

4 Assumptions and Inputs

Assumptions and inputs associated with soil screening levels, EPCs, and soil background concentrations are described below.

4.1 Soil Screening Levels

Table 4-1 documents the source of information for unit-length soil screening levels.

Table 4-1. Soil Screening Level References

Soll Screening Level	Pathway	Reference	
STOMP 1D 70:30/100:0 Contaminant	Groundwater	ECF-HANFORD-15-0129	
Source Model	Surface Water	ECF-HANFORD-15-0129	

Notes:

ECF-HANFORD-15-0129, STOMP1-D Modeling for Determination of Unit-Length Soil Screening Levels and Preliminary Remediation Goals for Waste Sites in the 100-BC-1 and 100-BC-2 Source Operable Units. Note, the soil screening levels in this ECF are provided on a unit-length basis, and must be scaled by the representative lineal dimension of the waste site decision unit in the general direction of groundwater flow for evaluation use.

4.1.1 Soil Screening Levels Protective of Groundwater

Unit-length soil screening levels for the protection of groundwater at and near the 100-BC OU have been derived using the following model:

- STOMP 1D 70:30/100:0 Contaminant Source Model
- The unit-length STOMP 1D groundwater protection soil screening levels for all detected analytes in the 100-BC Source OU are provided in Table 4-2.

The STOMP 1D Contaminant Source Model as implemented for determination of unit-length soil screening levels uses an irrigation recharge scenario and assumes that either the upper 70 percent of the vadose zone is contaminated (for $K_d \ge 2$ mL/g analytes) or the entire vadose zone is contaminated (for $K_d \le 2$ mL/g analytes) below clean fill. Operable unit-specific unit-length soil screening levels protective of groundwater for the 100-BC OU calculated using the STOMP 70:30/100:0 Contaminant Source Model are document in ECF-HANFORD-15-0129, STOMP 1-D Modeling for Determination of Unit-Length Soil Screening Levels and Preliminary Remediation Goals for Waste Sites in the 100-BC-1 and 100-BC-2 Source Operable Units.

4.1.2 Soil Screening Levels Protective of Surface Water

Unit-length soil screening levels for the protection of surface water are used in the River Corridor RI/FS process because the operable units in this area abut surface water. Unit-length soil screening levels for the protection of surface water at and near the 100-BC Source OU have been derived using the following model:

- STOMP 1D 70:30/100:0 Contaminant Source Model
- The unit-length STOMP 1D surface water protection soil screening levels for all detected analytes in the 100-BC Source OU are provided in Table 4-3.

The STOMP 1D Contaminant Source Model as implemented for determination of unit-length soil screening levels uses an irrigation recharge scenario and assumes that either the upper 70 percent of the vadose zone is contaminated (for $K_d \ge 2$ mL/g analytes) or the entire vadose zone is contaminated (for $K_d \le 2$ mL/g analytes) below clean fill. The model takes no credit for dilution of groundwater by mixing with surface water. Operable unit-specific unit-length soil screening levels protective of surface water for the 100-BC Source OU calculated using the STOMP 1D 70:30/100:0 Contaminant Source Model are documented in ECF-HANFORD-15-0129.

4.2 Representative Lineal Dimensions

Waste site dimensions parallel to general groundwater flow direction are from ECF-100BC5-15-0119, Determination of Representative Lineal Dimensions for 100-BC Operable Unit Waste Site Decision Units for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations. The waste site dimensions for each waste site decision unit are presented in Table 4-4.

4.3 Exposure Point Concentrations

OSWER 9285.6-10, Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites, states that, "an exposure point concentration (EPC) is a conservative estimate of the average chemical concentration in an exposure medium." OSWER Publication 9285.7-081, Supplemental Guidance to RAGS: Calculating the Concentration Term, states that, "because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent upper confidence limit (UCL) of the arithmetic mean should be used for this variable."

The EPCs used for comparison to soil screening levels scaled to the waste site dimension in the direction of groundwater flow are the analyte-specific values computed from the post-remediation soil sample results for each waste site decision unit in the 100-BC Source OU, as described in ECF-100BC1-11-0012, Computation of Exposure Point Concentrations for the 100-BC-1 and 100-BC-2 Source Operable Units. The EPCs for each waste site decision unit are presented in Table 4-5 for the 100-BC Source OU.

4.4 Hanford Site Background

EPA 540-R-01-003, Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites, provides national policy considerations for application of background data in risk assessment and remedy selection. This policy recommends an approach that addresses site-specific background issues in the risk characterization. EPA 540-R-01-003 indicates the following:

"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 the following: (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.

Lognormal 90th percentile background values for the Hanford Site (representative of both naturally occurring and anthropogenic substances) have been developed for inorganic chemicals and identified in DOE/RL-92-24, *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes*, Summary Table 2. Radionuclide background values are identified in DOE/RL-96-12, *Hanford Site Background: Part 2, Soil Background for Radionuclides*, Table 5-1. ECF-HANFORD-11-0038, *Soil Background Data for Interim Use at the Hanford Site* reports lognormal 90th percentile background values for most of the metals that are absent from DOE/RL-92-24. The analyte-specific background concentrations are presented in Table 4-6.

4.5 Required Detection Limits

The required detection limit (RDL) is the lowest concentration that can be reliably measured within specific limits of accuracy and precision under routine laboratory operating conditions. The RDL is specified by the laboratory and is typically 5 – 10 times greater than the method detection limit. In some cases, the RDL is equal to the concentration of the lowest calibration standard. The EQLs presented in this environmental calculation file were obtained from DOE/RL-96-17, *Remedial Design Report/Remedial Action Work Plan for the 100 Area*. The analyte-specific RDL values are presented in Tables 4-2 and 4-3.

5 Software Applications

Microsoft Excel® was used to tabulate the data in electronic spreadsheets. These spreadsheets are provided as tables that accompany this environmental calculation.

6 Calculation

Contaminants of potential concern for groundwater protection and surface water protection at the 100-BC Source OU are identified by comparing EPCs to soil screening levels scaled to the waste site dimension in the direction of groundwater flow, background concentrations, and lastly the selected SSL for groundwater protection or the selected SSL for surface water protection, as described in Section 3. The

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results of this comparison are provided in summary in Section 7. The comparison tables all share a similar format, providing both the values being compared as well as a "Yes/No" column indicating the outcome of the comparison.

7 Results/Conclusions

Analytes that have an EPC that is greater than the 90th percentile background concentration as well as the selected soil screening level are considered COPCs to be carried forward for further analysis.

Comparison of the 100-BC OU waste site decision unit EPCs to scaled soil screening levels for groundwater protection and for surface water protection, *without consideration of soil background concentrations*, are presented in Tables 7-1 and 7-2, respectively. Unit-length soil screening levels are scaled by the representative length of each waste site decision unit in the general direction of groundwater flow for comparison to EPC values.

Comparison of the 100-BC Source OU waste site decision unit EPCs to soil background concentrations is presented in Table 7-3.

Comparison of the 100-BC Source OU waste site decision unit EPCs to selected soil screening levels for groundwater protection and for surface water protection, as well as soil background concentrations, are presented in Tables 7-4 and 7-5, respectively. The selected SSL is the highest value between the unit-length soil screening level scaled by the representative length of each waste site decision unit in the general direction of groundwater flow, the 90th percentile background concentration, or the RDL for comparison to EPC values.

Comparison results shown in Table 7-4 indicate the 100-BC-5 Source OU has the following 24 COPCs for groundwater protection:

2,4,5-T, 2,4,5-TP, 2,4-DB, acetone, beta-BHC, boron, cadmium, carbazole, carbon tetrachloride, copper, dibenzofuran, dicamba, fluorene, heptachlor, iron, methylene chloride, naphthalene, pentachlorophenol, selenium, silver, technetium-99, strontium-90, tritium, and zinc.

Comparison results shown in Table 7-5 indicate the 100-BC-5 Source OU has the following 13 COPCs for surface water protection:

 cadmium, copper, dieldrin, endosulfan I, endosulfan II, endrin, heptachlor, iron, mercury, pentachlorophenol, selenium, silver, and zinc.

All of the analytes reported with an EPC greater than their respective selected soil screening level were further evaluated. This evaluation consists of reviewing individual reported sample concentrations from each decision unit and evaluating data quality, the basis of the EPC. For example, the EPC is reviewed to determine if it represents a uniform distribution or whether it represents a single detection above the SSL. Additionally, individual sample concentrations are reviewed to determine if they are within the range of naturally occurring levels, or if the detections represent laboratory contamination.

The results of this evaluation are presented in Table 7-6 for groundwater protection and in Table 7-7 for surface water protection. With the exception of strontium-90, the results of this review indicate that the analytes reported with EPCs greater than the scaled STOMP 1D SSLs will not be carried forward as COPCs and do not warrant comparison to preliminary remediation goals (PRGs) developed for protection of groundwater or surface water. Concentrations of strontium-90 at remediated waste site 116-C-1 are above the SSLs for groundwater protection and will be compared to PRGs for groundwater protection.

8 References

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Table 4-2. Summary of Soil Screening Levels for Groundwater Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Groundwater Standard (pCi/L or µg/L)ª	Required Detection Limit (pCi/g, μg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection c $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$
		Radionuc	lides		1 (9 9)
14596-10-2	Americium-241	200	15	1	_d
14762-75-5	Carbon-14	200	2,000	2	_d
10045-97-3	Cesium-137	50	200	0.1	d
10198-40-0	Cobalt-60	50	100	0.05	_d
14683-23-9	Europium-152	200	200	0.1	d
15585-10-1	Europium-154	200	60	0.1	d
14391-16-3	Europium-155	200	600	0.1	_d
13981-37-8	Nickel-63	30	50	30	d
14681-63-1	Niobium-94	200		0.2	ee
13981-16-3	Plutonium-238	200	15	1	d
PU-239/240	Plutonium-239/240	200	15	1	d
SR-RAD	Total beta radiostrontium	25	8.0	1	2,121
14133-76-7	Technetium-99	0	900	0.25	2.2
10028-17-8	Tritium	0	20,000	10	60
U-233/234	Uranium-233/234			1	_e
13966-29-5	Uranium-234	_		1	_e
15117-96-1	Uranium-235			0.5	_e
U-238	Uranium-238			1	e
- 230		Nonradion			
120-82-1	1,2,4-Trichlorobenzene	1.7	1.5	330	330
94-75-7	2,4-D(2,4-Dichlorophenoxyacetic acid)	0.03	70	400	400
94-82-6	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	0.098	128	100	705
93-76-5	2,4,5-T(2,4,5-Trichlorophenoxyacetic acid)	0.11	160	20	941
93-72-1	2,4,5-TP(2-(2,4,5- Trichlorophenoxy)propionic acid)Silvex	0.18	50	20	415
78-93-3	2-Butanone	0.0045	4,800	10	12,162
91-57-6	2-Methylnaphthalene	2.5	32	330	2,896
72-54-8	4,4'-DDD (Dichlorodiphenyldichloroethane)	46	0.36	3.3	836,540
72-55-9	4,4'-DDE (Dichlorodiphenyldichloroethylene)	86	0	3.3	d
50-29-3	4,4'-DDT (Dichlorodiphenyltrichloroethane)	678	0.26	3.3	d
1918-02-1	4-Amino-3,5,6-trichloropicolinic acid	0.039	500		1,806
108-10-1	4-Methyl-2-pentanone	0.013	640		1,783
83-32-9	Acenaphthene	4.9	480	330	84,728
67-64-1	Acetone	6.00E-04	7,200	20	17,372
309-00-2	Aldrin	49	0.0030	1.7	9,878
319-84-6	Alpha-BHC	1.8	0.014	1.7	1.65
5103-71-9	Alpha-Chlordane	51	0.25	17	1.42E+06
7429-90-5	Aluminum	1,500	16,000		_d
120-12-7	Anthracene	24	2,400	330	4.27E+07

Table 4-2. Summary of Soil Screening Levels for Groundwater Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Groundwater Standard (pCi/L or µg/L) ^a	Required Detection Limit (pCi/g, μg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$
7440-36-0	Antimony	45	6.0	600	1.19E+07
11104-28-2	Aroclor-1221	8.4	0,000	17	16.5
53469-21-9	Aroclor-1242	78	0.040	17	_d
11097-69-1	Aroclor-1254	131	0.040	17	_d
11096-82-5	Aroclor-1260	822	0.044	17	_d
7440-38-2	Arsenic	29	0.058	10,000	10,000
7440-39-3	Barium	41	2,000	2,000	3.89E+08
71-43-2	Benzene	0.062	1.0	5.0	5.0
56-55-3	Benzo(a)anthracene	358	0.12	15	_d
50-32-8	Benzo(a)pyrene	969	0.012	15	_d
205-99-2	Benzo(b)fluoranthene	1,230	0.12	15	_d
	Benzo(k)fluoranthene	1,230	0.12	15	d
207-08-9					d
7440-41-7 319-85-7	Beryllium beta-1,2,3,4,5,6-Hexachlorocyclohexane	790	4.0 0.049	1.7	3.8
	(beta-BHC)	444	0.000	220	d
117-81-7	Bis(2-ethylhexyl) phthalate	111	0,006	330	
7440-42-8	Boron	3.0	3,200	2,000	348,488
85-68-7	Butylbenzylphthalate	14	46	330	60,438
7440-43-9	Cadmium	6.7	5.0	500	1,256
86-74-8	Carbazole	3.4	4.4	330	537
56-23-5	Carbon tetrachloride	0.15	1.0	5.0 1.7	5.0
57-74-9	Chlordane	51	0.30		1.42E+06 d
7440-47-3	Chromium	1,000	100	1,000	d d
218-01-9	Chrysene	398	1.2	100	
7440-48-4	Cobalt	45	4.8	2,000	9.52E+06
7440-50-8	Copper	22	640	1,000	7.69E+06
75-99-0	Dalapon	0.0032	200	100	499
53-70-3	Dibenz[a,h]anthracene	1,789	0.12	30	_d
132-64-9	Dibenzofuran	9.2	8.0	330	3,353
1918-00-9	Dicamba	0.029	480	100	1,582
60-57-1	Dieldrin	26	0.010	3.3	166
84-66-2	Diethylphthalate	0.082	12,800	330	63,829
84-74-2	Di-n-butylphthalate	1.6	1,600	330	88,471
117-84-0 88-85-7	Di-n-octylphthalate Dinoseb(2-secButyl-4,6-dinitrophenol)	83,200 4.3	7.0	330 10	d 1,082
959-98-8	Endosulfan I	2.0	96	3	7,192
33213-65-9	Endosulfan II	2.0	96	3	7,192
72-20-8	Endrin	11	2.0	3	1,219
206-44-0	Fluoranthene	49	640	330	3.89E+08
86-73-7	Fluorene	7.7	320	330	97,154
16984-48-8	Fluoride	150	960	5,000	_d
58-89-9	Gamma-BHC (Lindane)	1.4	0.080	1.7	3.8
76-44-8	Heptachlor	9.5	0.020	2	8.7
1024-57-3	Heptachlor epoxide	83	0.0050	2	_d
18540-29-9	Hexavalent Chromium	0.80	48	1,000	
			-		6,000 [†]
193-39-5	Indeno(1,2,3-cd)pyrene	3,470	0.12	330	
7439-89-6 78-59-1	Iron Isophorone	25 0.047	11,200 46	330	2.92E+08 330

Table 4-2. Summary of Soil Screening Levels for Groundwater Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Groundwater Standard (pCI/L or µg/L)°	Required Detection Limit (pCi/g, μg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection ^c $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCt}{g} \cdot m\right)$
7439-92-1	Lead	10,000	15	5,000	_d
7439-93-2	Lithium	300	32	2,500	_d
7439-96-5	Manganese	65	0,384	5,000	3.89E+08
7439-97-6	Mercury	52	2.0	200	1.34E+07
72-43-5	Methoxychlor	80	40	20	_d
75-09-2	Methylene chloride	0.010	5.0	5.0	14
7439-98-7	Molybdenum	20	0,080	2,000	563,885
91-20-3	Naphthalene	1.2	160	330	6,798
7440-02-0	Nickel	65	100	4,000	3.89E+08
14797-55-8	Nitrate	0	45,000	2,500	107,743
NO2+NO3-N	Nitrogen in Nitrite and Nitrate	0	10,000	750	23,943
86-30-6	n-Nitrosodiphenylamine	1.3	0,018	330	819
87-86-5	Pentachlorophenol	0.59	0.20	330	330
108-95-2	Phenol	0.029	2,400	330	7,909
129-00-0	Pyrene	68	240	330	3.89E+08
7782-49-2	Selenium	5.0	50	1,000	9,013
7440-22-4	Silver	8.3	0,080	200	27,530
7440-24-6	Strontium	35	9,600	1,000	3.89E+08
100-42-5	Styrene	0.91	100		3,305
7440-31-5	Tin	250	9,600	10,000	d
108-88-3	Toluene	0.14	640	5.0	4,437
TPH	Total petroleum hydrocarbons	4.0	500		1.00E+06 ^g
TPHDIESEL	Total petroleum hydrocarbons - diesel range	4.0	500		2.00E+06 ^g
TPHDIESELEXT	Total petroleum hydrocarbons - diesel range extended to C36	4.0	500	40.00.00	2.00E+06 ^g
TPH/OILH	Total petroleum hydrocarbons - motor oil (high boiling)	4.0	500	49 (2) 49	2.00E+06 ^g
Total_U_Istope	Total_U_istopes	h			NVR ^h
79-01-6	Trichloroethene	0.094	0.54	5.0	5.0
7440-61-1	Uranium	h	30		NVR ^h
7440-62-2	Vanadium	1,000	80	2,500	_d
1330-20-7	Xylenes (total)	0.23	1,600	1.0	16,314
7440-66-6	Zinc	62	4,800	1,000	3.89E+08

Notes:

a. Selection of distribution coefficients (Kd values) and groundwater standard described in ECF-HANFORD-12-0023, Rev. 3.

b. Required detection limits (RDLs) are obtained from DOE/RL-96-17, Remedial Design Report/Remedial Action Work Plan for the 100 Area (Table 2-1) or from DOE/RL-2009-44, Sampling and Analysis Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable units Remedial Investigation Feasibility Study (Appendix A; \Table A-1 through A-11) when not published in DOE/RL-96-17. The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.

c. ECF-HANFORD-15-0129. A 70:30 source distribution is used for analytes with Kd ≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. These soil screening levels protective of groundwater and protective of surface water are provided on a unit-length basis. To apply these soil screening levels, divide the listed value by a representative length across the waste site decision unit in the general direction of groundwater flow to obtain the soil screening level for evaluation use. (Note that this scaling is not applicable to soil cleanup levels for arsenic, hexavalent chromium, or TPH-diesel.)

Table 4-2. Summary of Soil Screening Levels for Groundwater Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Groundwater Standard (pCi/L or µg/L) ^a	Required Detection Limit (pCi/g, μg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection ^c $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$
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- d. The calculated soil screening level for the analyte is considered non-representative because: (1) breakthrough is simulated within 1,000 years for some soil columns while other soil columns (a majority) show no breakthrough (breakthrough defined as concentrations below 1E-04 µg/L or activity below 1E-04 pCi/L), and/or (2) the calculated residual mass of contaminant in the pore volume is high enough to represent a substantial (and physically improbable) reduction in porosity.
- e. A "NA" was assigned when a drinking water standard was not available.
- f. The soil screening level for hexavalent chromium is set to 6,000 µg/kg based on the evaluation in ECF-Hanford-11-0165; this value is not dependent on waste site size.
- g. The soil screening levels for Total Petroleum Hydrocarbons are screening levels obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."
- h. No Value Required. Uranium is not modeled because uranium was not detected at levels above Hanford site background at any remediated waste site in 100-BC, therefore it is not a soil COPC.
- -- = Not Applicable

		1144		Water Protection	STOMB 1D 70-30/400 0 C
CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Surface Water Standard or Criterion (µg/L)	Required Detection Limit (pCi/g, µg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{ka} \cdot m \text{ or } \frac{pCl}{a} \cdot m\right)$.
		Radion	uclides		\Kg g /
14596-10-2	Americium-241	200	-	1.0	_d
14762-75-5	Carbon-14	200		_	_d
10045-97-3	Cesium-137	50	_	0.10	_d
10198-40-0	Cobalt-60	50	-	0.050	_d
4683-23-9	Europium-152	200	_	0.10	_d
15585-10-1	Europium-154	200	_	0.10	d
14391-16-3	Europium-155	200		0.10	_d
13981-37-8	Nickel-63	30		_	d
14681-63-1	Niobium-94	200	_	_	d
13981-16-3	Plutonium-238	200	_	1.0	d
PU-239/240	Plutonium-239/240	200		1.0	d
R-RAD	Total beta radiostrontium	25	_		_d
	Technetium-99	0			d
.4133-76-7 .0028-17-8	Tritium	0		-	d
	Uranium-233/234				d
J-233/234 13966-29-5	Uranium-234	-		1.0	d
	Uranium-235		-	0.5	d
15117-96-1		-	-		d
J-238	Uranium-238	Nonradio	nuclides	1.0	
120-82-1	1,2,4-Trichlorobenzene	1.7		330	d
)4-75-7	2,4-D(2,4-Dichlorophenoxyacetic acid)	0.030		400	d
14-73-7	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic	0.050		400	=
94-82-6	acid)	0.098	**	100	d
93-76-5	2,4,5-T(2,4,5-Trichlorophenoxyacetic acid)	0.11		20	_d
93-72-1	2,4,5-TP(2-(2,4,5- Trichlorophenoxy)propionic acid)Silvex	0.18	_	20	_d
78-93-3	2-Butanone	0.0045		10	d
91-57-6	2-Methylnaphthalene	2.5		330	d
72-54-8	4,4'-DDD (Dichlorodiphenyldichloroethane)	46	_	3.3	_d
72-55-9	4,4'-DDE (Dichlorodiphenyldichloroethylene)	86	-	3.3	_d
50-29-3	4,4'-DDT (Dichlorodiphenyltrichloroethane)	678	0.001	3.3	e
1918-02-1	4-Amino-3,5,6-trichloropicolinic acid	0.039	_		_d
108-10-1	4-Methyl-2-pentanone	0.013	densit .		_d
33-32-9	Acenaphthene	4.9		330	_d
57-64-1	Acetone	6.00E-04	_	20	_d
309-00-2	Aldrin	49	0.0019	1.7	7,293
319-84-6	Alpha-BHC	1.8	_	1.7	d
5103-71-9	Alpha-Chlordane	51	0.0043	17	24,442
7429-90-5	Aluminum	1,500	87		_4
120-12-7	Anthracene	24	_	330	d
7440-36-0	Antimony	45	_	600	_d
1104-28-2	Aroclor-1221	8.4	0.014	17	17
3469-21-9	Aroclor-1242	78	0.014	17	_•
1097-69-1	Aroclor-1254	131	0.014	17	
11096-82-5	Aroclor-1260	822	0.014	17	_•
7440-38-2	Arsenic	29	150	10	1.05E+07
7440-39-3	Barium	41	-	2,000	d
71-43-2	Benzene	0.062	-	5.0	d
6-55-3	Benzo(a)anthracene	358	_	15	d
0-32-8	Benzo(a)pyrene	969	_	15	_d
05-99-2	Benzo(b)fluoranthene	1,230	-	15	ď
07-08-9	Benzo(k)fluoranthene	1,230		15	_q
7440 41 7	Bandium	700		500	ď

500

790

7440-41-7

Beryllium

Table 4-3. Summary of Soil Screening Levels for Surface Water Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Surface Water Standard or Criterion (µg/L)	Required Detection Limit (pCi/g, µg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^c $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$
319-85-7	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	2.1	-	1.7	_d
117-81-7	Bis(2-ethylhexyl) phthalate	111	***	330	_d
7440-42-8	Boron	3.0	_	2,000	d
85-68-7	Butylbenzylphthalate	14		330	_d
7440-43-9	Cadmium	6.7	0.22	500	500
86-74-8	Carbazole	3.4	***	330	_d
56-23-5	Carbon tetrachloride	0.15		5.0	d
57-74-9	Chlordane	51	0.0043	1.7	24,442
7440-47-3	Chromium	1,000	65	1,000	_•
218-01-9	Chrysene	398	_	100	_d
7440-48-4	Cobalt	45	_	2,000	_d
7440-50-8	Copper	22	7.8	1,000	93,717
75-99-0	Dalapon	0.0032	_	100	_d
53-70-3	Dibenz[a,h]anthracene	1,789		30	_d
132-64-9	Dibenzofuran	9.2	-	330	_6
1918-00-9	Dicamba	0.029	_	100	_d
60-57-1	Dieldrin	26	0.0019	3.3	58
84-66-2	Diethylphthalate	0.082	-	330	_d
84-74-2	Di-n-butylphthalate	1.6	-	330	d
117-84-0	Di-n-octylphthalate	83,200		330	d
88-85-7	Dinoseb(2-secButyl-4,6-dinitrophenol)	4.3		10	_d
959-98-8	Endosulfan i	2.0	0.056	3	4.2
33213-65-9	Endosulfan II	2.0	0.056	3	4.2
72-20-8	Endrin	11	0.0023	3	3
206-44-0	Fluoranthene	49	***	330	_d
86-73-7	Fluorene	7.7	-	330	_d
16984-48-8	Fluoride .	150		5,000	_d
58-89-9	Gamma-BHC (Lindane)	1.4	0.080	1.7	3.8
76-44-8	Heptachlor	9.5	0.0038	2	2
1024-57-3	Heptachlor epoxide	83	0.0038	2	_•
18540-29-9	Hexavalent Chromium	0.80	48	1,000	6,000 ^f
193-39-5	Indeno(1,2,3-cd)pyrene	3,470		330	d
7439-89-6	Iron	25	1,000		2.61E+07
78-59-1	Isophorone	0.047	_	330	_6
7439-92-1	Lead	10,000	2.1	5,000	-
7439-93-2	Lithium	300		2,500	d
7439-96-5	Manganese	65	-	5,000	_d
7439-97-6	Mercury	52	0.012	200	80,585
72-43-5	Methoxychlor	80	0.030	20	_•
75-09-2	Methylene chloride	0.010	-	5.0	_d
7439- 9 8-7	Molybdenum	20		2,000	_d
91-20-3	Naphthalene	1.2	_	330	_d
7440-02-0	Nickel	65	45	4,000	3.89E+08
14797-55-8	Nitrate	0	_	2,500	d
NO2+NO3-N	Nitrogen in Nitrite and Nitrate	0		750	_d
86-30-6	n-Nitrosodiphenylamine	1.3	_	330	_d
87-86-5	Pentachlorophenol	0.59	13	330	330
108-95-2	Phenol	0.029	-	330	_d
129-00-0	Pyrene	68	**	330	_d
7782-49-2	Selenium	5.0	5.0	1,000	1,000
7440-22-4	Silver	8.3	2.4	200	826
7440-24-6	Strontium	35	***	1,000	d
100-42-5	Styrene	0.91			_d
7440-31-5	Tin	250		10,000	_d
108-88-3	Toluene	0.14	-	5.0	
TPH	Total petroleum hydrocarbons	4.0			d
TPHDIESEL	Total petroleum hydrocarbons - diesel range	4.0	-	-	ad em

Table 4-3. Summary of Soil Screening Levels for Surface Water Protection

CAS No.	Analyte	Distribution Coefficient (K _d) Value (mL/g) ^a	Surface Water Standard or Criterion (µg/L)	Required Detection Limit (pCi/g, µg/kg) ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$
TPHDIESELEXT	Total petroleum hydrocarbons - diesel range extended to C36	4.0			_d
TPH/OILH	Total petroleum hydrocarbons - motor oil (high boiling)	4.0	-	-	_d
Total_U_Istopes	Total_U_Istopes	E	_		_\$
79-01-6	Trichloroethene	0.094		5.0	d
7440-61-1	Uranium	NVR ^g		-	_1
7440-62-2	Vanadium	1,000		2,500	_d
1330-20-7	Xylenes (total)	0.23		1.0	_d
7440-66-6	Zinc	62	91	1,000	3.89E+08

Notes

- a. Selection of distribution coefficients (Kd values) and surface water standard described in ECF-HANFORD-12-0023, Rev. 3.
- b. Required detection limits (RDLs) are obtained from DOE/RL-96-17, Remedial Design Report/Remedial Action Work Plan for the 100 Area (Table 2-1) or from DOE/RL-2009-44, Sampling and Analysis Plan for the 100-BC-1, 100-BC-2 and 100-BC-5 Operable units Remedial Investigation Feasibility Study (Appendix A; Table Table A-1 through A-11) when not published in DOE/RL-96-17. The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.
- c. ECF-HANFORD-15-0129. A 70:30 source distribution is used for analytes with Kd ≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. These soil screening levels protective of groundwater and protective of surface water are provided on a unit-length basis. To apply these soil screening levels, divide the listed value by a representative length across the waste site decision unit in the general direction of groundwater flow to obtain the soil screening level for evaluation use. (Note that this scaling is not applicable to soil cleanup levels for arsenic, hexavalent chromium, or TPH-diesel.)
- d. A soil screening level is not calculated because a surface water quality standard is not available for the analyte.
- e. The calculated soil screening level for the analyte is considered non-representative because: (1) breakthrough is simulated within 1,000 years for some soil columns while other soil columns (a majority) show no breakthrough (breakthrough defined as concentrations below 1E-04 µg/L or activity below 1E-04 pCi/L), and/or (2) the calculated residual mass of contaminant in the pore volume is high enough to represent a substantial (and physically improbable) reduction in porosity.
- f. The soil screening level for hexavalent chromium is set to 6,000 µg/kg based on the evaluation in ECF-Hanford-11-0165; this value is not dependent on waste site size.
- g. No Value Required. No Value Required. Uranium is not modeled because uranium was not detected at levels above Hanford site background at any remediated waste site in 100-BC, therefore it is not a soil COPC.
- = Not Applicable

100-BC Source Op	Width in Prominent GW Flow
Waste Site/Decision Unit	Direction (meters)
100-B-1 Shallow 1	58.6
100-B-1 Shallow 2	80.3
100-B-1 Shallow Focused	37.8
100-B-11 Shallow Focused	2
100-B-14:1 Deep	18.4
100-B-14:1 Deep Focused	2
100-B-14:1_Overburden_2	664.1
100-B-14-1 Overburden 4	97.6
100-B-14-1 Overburden 5	102.9
100-B-14-1 Overburden 6	111.6
100-B-14-1 Overburden 7	215.9
100-B-14-1 Overburden 8	56.4
100-B-14-1 Overburden 9	57.9
100-B-14:1 Shallow	44.6
100-B-14:2 Overburden Focused	33.9
100-B-14:2 Shallow 1	59.2
100-B-14:2_Shallow_2	12.2
100-B-14:2_Shallow_3	19.3
100-B-14:2 Shallow_Focused	2
100-B-14:3_Deep_Focused	2
100-B-14:5_Shallow_Focused	0.01
100-B-14:6_Shallow_Focused	10.9
100-B-14:7_Shallow_Focused	5.7
100-B-16_Shallow_Focused	11.2
100-B-18_Shallow_Focused	19.7
100-B-19_Shallow_1	63.7
100-B-19_Shallow_2	16.4
100-B-19_Shallow_4	36
100-B-19_Shallow_5	25.2
100-B-19_Shallow_Focused	219
100-B-19_Staging pile area	14.1
100-B-19_Staging pile area_Focused	8.8
100-B-20_Shallow_Focused	3.2
100-B-21:2_Overburden_Focused	12.1
100-B-21:2_Shallow	33
100-B-21:3_Overburden_Focused	7.5
100-B-21:3_Shallow	9.2
100-B-21:3_Staging pile area_Focused	9.4
100-B-21:4_Overburden_Focused	48.4
100-B-21:4_Shallow	29.5
100-B-21:4_Staging pile area	21.8
100-B-22:2_Shallow_Focused	126.3

100-BC Source Op	
	Width in Prominent GW Flow
Waste Site/Decision Unit	Direction (meters)
100-B-22:2_Staging pile area_Focused	6.6
100-B-23_Shallow_Focused	1237.8
100-B-25_Overburden_Focused	58.6
100-B-25_Shallow	48
100-B-25_Staging pile area	29.9
100-B-26_Shallow_Focused	31.7
100-B-27_Deep	47.1
100-B-27_Overburden_Focused	73.8
100-B-27_Staging pile area	34.6
100-B-28_Overburden_Focused	14.8
100-B-28_Shallow_1	24.9
100-B-28_Shallow_3	19.3
100-B-28_Shallow_5	22
100-B-28_Shallow_Focused	150.6
100-B-28_Staging pile area_2	70.2
100-B-28_Staging pile area_4	4.3
100-B-31_Shallow	15.1
100-B-32_Shallow_Focused	2
100-B-33_Shallow_Focused	4.2
100-B-33_Staging pile area_Focused	4.4
100-B-35:1_Deep_Focused	22.2
100-B-35:1_Shallow	122
100-B-35:1_Staging Pile Area	101.5
100-B-35:2_Shallow_Focused	15.9
100-B-5_Deep	27.6
100-B-5_Shallow	52.2
100-B-8:1 Deep	28.9
100-B-8:1_Overburden	43.2
100-B-8:1_Shallow	48.6
100-B-8:2 Deep	19.2
100-B-8:2 Overburden	65.3
100-B-8:2_Shallow_1	30.9
100-B-8:2_Shallow_3	49.7
100-C-3 Shallow	8.6
100-C-7:1_Overburden_Focused_1	117.8
100-C-7:1 Overburden Focused 23	52.1
100-C-7:1 Overburden Focused 24	26.2
100-C-7:1 Overburden Focused 30	55.8
100-C-7:1_Overburden_West_Focused	146.9
100-C-7:1_Shallow_1	55.4
100-C-7:1_Shallow_2	51.6
100-C-7:1_Shallow_3	103.5

	Width in Prominent GW Flow
Waste Site/Decision Unit	Direction (meters)
100-C-7:1_Staging Pile Area_1	50.7
100-C-7:1_Staging Pile Area_2	70.6
100-C-7:1_Staging Pile Area_2_Focused	28.7
100-C-7:1_Staging Pile Area_3	99.1
100-C-7:1_Staging Pile Area_4	46.5
100-C-7_Overburden_Focused_15	159.5
100-C-7_Overburden_Focused_18	54.9
100-C-7_Overburden_Focused_2	69.3
100-C-7_Overburden_Focused_27	20.9
100-C-7_Overburden_Focused_31	163.6
100-C-7_Overburden_Focused_45	18.7
100-C-7_Overburden_Focused_47	31.8
100-C-7_Shallow_1	35.7
100-C-7_Shallow_2	35.9
100-C-7_Staging pile area	45.2
100-C-9:1_Deep_Focused	2
100-C-9:1_Overburden_Focused	44.6
100-C-9:1_Shallow_1	112
100-C-9:1_Shallow_2	26.1
100-C-9:1_Shallow_Focused	348.7
100-C-9:2_Overburden_Focused	16.6
100-C-9:2_Shallow	11.7
100-C-9:2_Shallow_Focused	14.8
100-C-9:3_Deep_Focused	2
116-B-1_Deep	20
116-B-1_Shallow	10.8
116-B-10_Shallow	8.4
116-B-11_Deep	85.7
116-B-11_Shallow	6.8
116-B-12_Deep	15.2
116-B-12_Shallow	15.9
116-B-13_Shallow	24.6
116-B-14_Deep	3.6
116-B-14_Shallow	3.4
116-B-15_Shallow_Focused	17.9
116-B-2_Deep	14.9
116-B-2_Shallow	7.7
116-B-3_Deep	2.2
116-B-3_Shallow	6.5
116-B-4_Deep	38.9
116-B-4_Shallow	10
116-B-5_Deep_Focused	18.5

	Width in Prominent GW Flow						
Waste Site/Decision Unit	Direction (meters)						
116-B-5_Overburden_Focused	4.8						
116-B-5_Shallow_Focused	37.6						
116-B-6A_Deep	11						
116-B-6A_Shallow	7.9						
116-B-6B Shallow	8.6						
116-B-7, 132-B-6, 132-C-2 Deep	12.7						
116-B-7, 132-B-6, 132-C-2_Shallow	20.9						
116-B-9_Shallow	7.1						
116-C-1_Deep_Focused	57.5						
116-C-1_Deep	57.5						
116-C-1_Overburden	23						
116-C-1_Shallow	12.3						
116-C-2A_Deep	14.2						
116-C-2A_Overburden	23.6						
116-C-2A_Shallow	9.8						
116-C-3_Overburden_Focused	33.4						
116-C-3_Shallow	5						
116-C-3_Shallow_Focused	4.6						
116-C-3_Staging pile area_Focused	35.8						
116-C-5_Deep	93.1						
116-C-5_Overburden	20.2						
116-C-5_Shallow	10.4						
116-C-6_Shallow_Focused	2.4						
118-B-1_Overburden_1	2.6						
118-B-1_Overburden_8	101.9						
118-B-1_Overburden_9	32.7						
118-B-1_Shallow_1	37.4						
118-B-1_Shallow_2	6.1						
118-B-1_Shallow_3	9.8						
118-B-1_Shallow_4	17.2						
118-B-1_Shallow_5	33.1						
118-B-1_Shallow_6	8.6						
118-B-1_Shallow_7	55						
118-B-1_Shallow_Focused	250.9						
118-B-1_Staging pile area	103.6						
118-B-1_Staging pile area_Focused	2.9						
118-B-10_Shallow	8.6						
118-B-10_Shallow_Focused	2.1						
118-B-10_Staging pile area	8.3						
118-B-3_Overburden_2	40.2						
118-B-3_Overburden_4	76.8						
118-B-3_Shallow	27.8						

	Width in Prominent GW Flow
Waste Site/Decision Unit	Direction (meters)
118-B-3_Shallow_Focused	63.2
118-B-3_Staging pile area	47.5
118-B-4_Shallow	24.2
118-B-4_Staging pile area	23.5
118-B-5_Shallow	22.5
118-B-5_Shallow_Focused	2.3
118-B-5_Staging pile area	27.1
118-B-6_Deep	6.2
118-B-6_Overburden	23.6
118-B-6_Shallow	17
118-B-6_Staging pile area	21.8
118-B-7_Shallow_Focused	0.2
118-B-9_Shallow_Focused	4.2
118-C-1_Overburden	49.7
118-C-1_Shallow_1	29.6
118-C-1_Shallow_2	17.1
118-C-1 Shallow 3	41.6
118-C-1_Shallow_4	32.4
118-C-1_Shallow_Focused	84.2
118-C-1_Staging pile area	64.5
118-C-2_Shallow	9.8
118-C-2_Staging pile area	8
118-C-3:2_Deep_Focused	4.3
118-C-3:3 Shallow_Focused	60.3
118-C-4 Shallow	5.2
120-B-1_Shallow_Focused	10.6
126-B-3 Shallow	87.4
126-B-3_Staging pile area_2	84.6
126-B-3_Staging pile area_3	67.8
126-B-3_Staging pile area_Focused	2
128-B-2 Shallow	95
128-B-3_Shallow_1	15.4
128-B-3 Shallow 2	45.7
128-B-3 Shallow_3	39.8
128-B-3_Staging pile area	56.2
128-B-3_Staging pile area_Focused	4.3
128-C-1 Shallow	45.4
128-C-1 Shallow Focused	37
1607-B1 Shallow Focused	6.3
1607-B10 Shallow	14.6
1607-B11 Shallow	10.2
1607-B2:1 Overburden Focused	10.6

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Waste Site/Decision Unit	Width in Prominent GW Flow Direction (meters)
1607-B2:1_Shallow	35.7
1607-B2:2_Overburden_Focused	129.6
1607-B2:2_Shallow	240.1
1607-B7_Shallow	12.3
1607-B8_Shallow	14.3
1607-B9_Shallow	28
600-232_Shallow	147.8
600-233_Shallow_Focused	2.1

The state of the s	- Anna C		1 - 1	Total	Tines.	Valettee	Programme		Historian Original	Controles from Majories Referèns	Name of Street	Manager	Company of	Consumer Print		The second second
Haste Lite Desigles Velt	Grange	Analyte	GAE No.	Saturates.	Detects	Detects	Betection	Units	Limit	Limit	Result	Resett	Vertelles	Concentration	Exposure Point Concentration Basis	Columnet?
126-B-8_Staging pile aron_2	non-Rad	Dilanesco-furum	132-64-9	10	,	7	30	HE/FE	530	340	27	60	0.38	60	95% (OII (Percentile Bootstrap) U.C.	Warraing: Recommended UCL emonds the manieraum observation Note: DL/2 in rut a recommended wear invertool. Note Suggestions regarding the selection of a 95% UCL are provide to help the sair to select the most appropriate 95% UCL.
126-B-8_Staging pile aren_2	more-Raid	Di-n-kartylphihalatio	84-74-2	10	•	1	90	HEFE	670	670	21	48	0.28	76	asse saw (d) (ncr	Warring: There are only 8 Detected Values in this data Mate: it should be noted that aren though bookstray may be performed on this data set the resulting calculations may not be reliable enough to draw-conclusions.
126-0-3_Staging piln aren_2	non-Red	Recreethere	206-44-0	10	4	6	40	HE/ES	380	840	40	284	0.67	78.5	65% KM (Percentile Beetstrap) UCI,	Marring: There are only 4 Distinct Detected Values in this is fature: it should be robat that even through bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions.
126-B-3_Stuging pile area_2	non-Rad	Rusrene	86-79-7	30	1	9	10	HE/NE	330	670	21	21	0	21	Maximum Defect	Warreng: Only one distinct data value was detected? ProUCI, (or any other software) should not be used on such a data set it is suggested to use alternative aits specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, STV). The data set for variable Fluores was not processed.
126-8-3_Staging pile area_2	more-Raid	Heanvalent Ovoreslam	18540-29-0	7	7	0	100	ив/че	-	_	209	483	0.28	336	9575 Stevient'n-t UCI,	Wharedig: There are only 7 Values in this shits Note: It should be extend that even though bootstrap methods may be performed or this data set, the resulting calculations may no be relitable enough to draw concludation.
126-8-3_Staging pilo urea_2	non-Rad	indenc(1,2,3-cd)pyrane	193-29-5	10	1	9	10	HE/FE	330	670	42	42	0	42	Maximum Detect	Warming: Only one distinct data value was detected ProUCL (or any other software) blood not be used on such a data set it is suggested to see alternative site specific values dristmined by the Project Team to estimate environmental parameters (e.g., EPC, STV). The data set for variable brismo(1,2,2-ofl)prima was not procussed!
126-8-3_Staging pile area_2	non-Rad		7439-92-1	1.0	10	0	100	µg/kg	-		2,600	6,100	0.28	5,075	95% Stanfamil's-t UCL	
326-8-3 Staging pile area_2 126-8-3 Staging pile area_2	non-Rad non-Rad	Manganese Mercury	7439-96-5 7439-97-6	10	3	7	30	HE\AR	13	17	229,000 15	358,000 30	0.15	310,472 30	95% Student's-CUCL 95% EM (Percentile Bootstrap) UCL	Wharning: There are only 3 Distinct Detected Values in this da set The number of detected data may not be adequate enough to perform GCF tests, bootstrap, and RCS methods. Those methods will return a 'N/A' value on your output display)
126-9-3_Staging pile area_2	non-Rad	Mulybulenum	7439-99-7	10	2	8	20	HE/FE	819	1,200	817	670	0.044	847	BS% KM (t) UCL	Whereing: Data set less only 2 Distinct Directed Values. This rusy not be sidequate enough to compute meaningful and reliable test statistics and estimates. The Project Team may decide to use aftermetive site specific values to estimate environmental parameters (e.g., EFC, ETV).
126-0-3_Staging pile area_2	non-Rad	Naghthalene	91-20-8	10	4	•	40	HE/NE	890	340	18	197	0.90	108	95% KOM (1) LICI.	Warning: There are only 4 Distinct Detected Values in this da Nata: It should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions
126-8-3_Staging pile area_2	non-Rad	Nickel	7440-02-0	10	10	0	200	μg/kg	-	-	8,300	16,000	0.22	11,767	95% Approximate Gamma UCL	
126-0-3_Staging pile area_2	non-Rad	Pyrene	129-00-0	10	4	6	40	HE/RE	380	340	36	288	0.92	237	95% (OA (1) UCL	Warning: There are only 4 Distinct Detected Values in this de Note: It should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions.
126-8-3_Staging pile area_2	non-Rad	Silver	7440-22-4	10	1	,	50	HE/RE	459	466	457	457	0	457	Musimum Dobact	Warning: Only one distinct data value was detected? ProUCI, (or any other politicers) should not be used on such a data set it is suggested to use alternative site specific varies determined by the Project Team to estimate environmental parameters (e.g., EFC, BTV). The data set for variable Silver was not concepted.
126-9-3 Staging pile area 2	non-Rad	Vanadium	7640-62-2 7660-66-6	30 10	10	0	100	us/kg			24,500 28,900	48,300 46,400	0.24	38,745	95% Standard to 4 U.C. 95% Standard to 4 U.C.	
126-8-3. Staging pile area_2 126-8-3_Staging pile area_3	mon-Red	ONE Hessevalent Chromium	18540-29-9	12	5		45.A5	HR/AR HR/AR	200	220	220	490	0.34	245	95% KM (Percentile Beatstrap) UCL	Worning: There are only 5 Detected Values in this data Note: It should be noted that even though backtrap may be performed on this data set the resulting calculations may not be reliable enough to disserce considers.
126-8-3_Staging pile area_Focused	non-Rad	2-Methylnaphthalene	91-67-6	1	1	0	200	HE/FE		-	76	76	0	76	Missimum Detect	Focused Sampling Design: EPC defaults to Maximum
126-8-3_Staging pile area_Focused	non-Rad	4,4°-DOT (Dichlorediphenyltrichloroethane)	50-29-6	1	1	0	160	HE/NE	-	-	1.6	3.6	0	1.6	Musimum Debict	Concentration. Focused Sempling Design: EFC defaults to Minimum
126-8-3_Staging pile area_Focused	non-Rad	Aluminum	7429-80-5	1	1	0	100	HE/NE	-		1.016+07	1.016+07	0	1.016+07	Manimum Defect	Concentration. Focused Sampling Design: EPC defaults to Maximum Concentration
126-8-3_Staging pile area_Focused	mon-Rad	Americ	7640-88-2	1	1	0	100	HE/KE		-	5,800	5,800	0	5,800	Manimum Detect	Concentration. Focused Sempling Design: EPC stefaults to Maximum Concentration.
126-8-3_Staging pile area_Focused	mon-Rad	Barloom	7440-39-3	1	1	0	100	146/146	-	-	96,800	96,300	0	96,300	Manimum Detect	Focused Sampling Design: EFC defaults to Maximum Concentration.
126-8-3_Staging pile ures_Focused	non-Rad	Berydiam	7440-41-7	1	1	0	100	146/46	-	-	980	980	0	980	Maximum Defect	Processed Sempling Designs: EPC defaults to Maximum Concentration.
126-8-3_Staging pile area_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	819-85-7	1	1	0	100	HE/FE	-	-	2.4	2.4	0	2.4	Maximum Detect	Focused Sampling Dealgn: EPC disfaults to Maximum. Concentration.
126-8-8_Staging pile area_Focused	non-Red	Bio(2-ethylhenyl) phthalate	217-81-7	1	1	0	100	145/45	_	-	92	92	0	92	Maximum Defect	Proceed Sampling Design: EFC defaults to Maximum Concentration.
128-8-3_Staging pile area_Focused	non-Red		7840-42-8	1	1	0	100	на/ч	-	-	2,800	8,800	0	8,500	Manimum Defect	Fecused Sampling Design: EFC defaults to folialmum Connectrations.
125-8-3_Staging pile area_Focused	non-Rad	Cadrolare	7440-43-9	1	1	0	100	HE/FE	-	-	360	360	0	360	Mainum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
126-8-3_Staging pile area_Focused	non-Rad	Chronium	7440-47-8	1	1	0	100	HE/KE	**	-	18,800	13,800	0	10,800	felanimore Detect	Focused Sampling Designs EFC defaults to Maximum Concentration.

					Tabi	e 46. 100-B/C	Source Operals	e Unit Expo	eaze Point Con	centration Sunn	mary					
Wests Site Ductaion Unit	Analytic Orange	Analyte	CAS No.	Total Samples	Total Delects		Frequency of Detection	Units.	Minimum Detection Limit	Meximore Detection Limit	Mississen Despried Nessell	Bestimen Detected Recott	Coefficient of Variation	Expense Point Gonnestration	Exposure Point Conceptation Basin	Constraint
126-B-3_Staging pile area_Focused	non-Rad Cobalt		7440-48-4	1	1	0	100	HE/KE		-	12,900	12,900	0	12,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum
126-B-3_Staging pile area_Focused	non-Rad Copper		7440-50-B	1	1	0	100	HE/KE	-	-	46,000	46,000	0	46,000	Maximum Detect	Concentration. Focused Sampling Dealgn: EPC defaults to Maximum
126-B-3_Staging pile area_Focused	non-Rad Di-n-butyl	lphthalate	84-74-2	1	1	0	100	HE/KE		-	25	25	0	25	Maximum Detect	Concentration. Focused Sampling Design: EPC defaults to Maximum
126-8-3_Staging pile area_Focused	non-Rad Iron		7439-89-6	1	1	0	100	HE/KE			2.75E+07	2.75E+07	0	2.756+07	Maximum Detect	Concentration. Focused Sampling Design: EPC defaults to Museum
126-B-3_Staging pile area_Focused	non-Rad Lead		7430-92-1	1	1	0	100	HE/RE			18,600	18,600	0	18,600	Maximum Detect	Concentration. Focused Sampling Design: EPC defaults to Musimum
126-8-3 Staging pile area. Focused	non-Rad Manganer	•	7430-06-5	1	1	9	100	HE/KE			467,000	467,000	0	467,000	Maximum Detect	Concentration. Focused Sampling Design: EPC defaults to Meximum
	non-Rad Mercury		7439-97-6	1			100	HE/KE			90	90	0	90	Massionum Detroct	Concentration. Focused Sampling Design: EPC defaults to Musleman
126-8-3_Staging pile area_Focused				1							44	- 44	0		Maximum Detect	Concentration. Focused Sampling Design: EPC defaults to Maximum
126-8-3_Staging pile area_Focused	rion-Rad Haphthele	me .	91-20-8		1	0	100	HE/KE								Concentration.
126-8-3_Staging pile area_Focused	non-Rad Mickel		7440-02-0	1	1	0	100	HE/KE	-	-	19,900	19,800	0	19,300	Maximum Defect	Focused Sampling Dealgro: EPC defaults to Maximum Concentration.
126-8-3_Staging pile area_Focused	non-Rad Pyrene		129-00-0	1	1	0	100	HE/HE	-	-	22	22	0	22	Manimum Detect	Focused Sempling Dealgn: EPC defaults to Musleware Consentration.
126-8-3_Staging pile area_Focumed	non-Rad Vanadjury	4	7440-62-2	1	1	0	100	HE/KE		-	57,100	57,100	0	57,300	Maximum Detect	Focused Sampling Design: EPC defaults to Meximum Concentration.
126-9-3_Staging pile area_Focused	non-Rad Zinc		7440-66-6	1	1	0	100	HE/KE	-	-	220,000	220,000	0	220,000	felaximum Defect	Focused Sempling Devign: EPC defaults to Maximum Concentrations.
128-9-3_Staging pile area		(Dichlorodiphere/dichloroethylene)	72-65-0	10		2	80	HE/HE	13	1.3	2.0	26	0.80	12	85% EM (BCA) UCL	Warreing: There are unity 8 Detected Values in this data Nets it should be netted that even though bootstrap may be performed on this data set the resolving calculations may no se reliable enough to drove conclusions.
128-8-3_Staging pile area	non-Rad 4,4'-00T ((Dichforodiphenyftrichloroethene)	50-29-3	10	2	•	20	NE/RE	13	1.8	8.7	15	0.38	n	95% KIM (1) LICI.	Warring: Data with his miny 2 Distinct Dataced Valence. This may not be adequate enough to compute moveheld and realidate and establishs and estimates. The Project Years may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).
128-8-3 Staging pile oven	non-Rad Acetone		67-64-1	10	1	9	10	не/че	10	10	13	13	0	13	Madruse Detect	Warning: Only one distinct data value was detected? ProUC (or any other software) should not be sumed on such a data as it is suggested to use afterwards site specific values describing by the Project Team to estimate environmental parameters (e.g., EPC, BTV). The data set for veriable Aceto was not announces.
12 6-0-3 _Staging pile area	non-Rad Aldrin		309-00-2	10	1	9	10	HE/KE	1.3	1.3	0.37	0,37	0	0.37	Maximum Detect	What hing: Only one distinct data value was elected if POUC (or any other software) should not be used on such a data or it is suggested to use electricities site specific values determined by the Project Tisen to estimate environmental parameters (e.g., EPC, BTV). The data set for variable Aldrin with the suppospecial
28-0-8_Steging pile area	non-Rad Alumirum		7429-90-5 11097-69-1	30	10	0	100	HE/KE	13	- 13	6.32E+06 15	7.9EE+06 260	0.069	7.38E+06 152	95% Student's-t UCL 95% KM (Percentile Bootstrae) UCL	Warning: These are only 8 Detected Values in this data Not
28-9-3_Staging pile area	non-Rad Arodur-1	24		10	•	2	80	HE/KE	15							It should be noted that even though bootstrap may be performed on this date set the resulting calculations may no be reliable enough to draw conclusions
128-8-Staging pile eres	non-Rad Aroclor-1	260	11096-82-5	10	•	2	80	HE/K	18	13	4.4	55	0.72	51	BROWN (4) CVCT	Warning: There are ently 8 Detected Values in this data Not it should be noted that even through bootstrap may be performed on this data evit the resulting calculations may no be reliable enough to draw conclusions.
128-8-3_Staging pile area	non-Rad Arsenic		7440-38-2	10	10	0	100	ME/KE	-		2,500	3,600	0.14	3,212	95% Approximate Gamma UCL	
128-8-3 Staging pile area 128-8-3 Staging pile area	non-Rad Barken non-Rad Benzo(s)s	anthracene	7440-39-3 56-55-3	10	3	7	100 30	HE/KE	330	340	84,100 23	177,000	0.28	132,213	95% Student's-k UCL Maximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC
								,,,,,								de faulting to Maximum Concentration since 97.5% and 999 Chebyshev (Mean, Sd) UCLs were not calculated.
126-9-3_Staging pile area	non-Rad Benzo(a)g	pyrene	50-32-6	10	4	6	40	HE/KE	330	340	24	41	0.24	20	95% IOM (t) UCL	Warning: These are only 4 Distinct Distincted Violate in this ideas: R should be noted that even though bootstrap may b performed on this data set the resulting calculations may ru- be reliable enough to draw conclusions.
128-0-3_Staging pile area	non-Rad Benzo(k)	Suovanthone	205-89-2	10	2		30	HE/KE	330	340	28	41	0.27	41	95% KM (% Bootstrap) UCI.	Warning: Recommended UCL enseeds the maximum observation lights: DL/2 is not a recommended method, Not Suggestions regarding the selection of a 95% UCL are provioto help the user to select the most appropriate 95% UCL.
126-0-3_Staging pile area	non-Rad Benzo(k)	fluoraethene	207-08-9	10	2	8	20	HE/KE	330	340	26	38	0.27	38	95% KIM (% Bootstrap) U.O.	Warning: Recommended UCL exceeds the maximum observation Note: DL/2 is not a recommended seethed. Not Suggestions regarding the selection of a 95% UCL are provint to help the user to select the most appropriate 95% UCL.
126-B-3 Staging pile area	non-Rad Beryllium	1	7440-41-7	10	10	0	100	us/ks		_	360	460	0.077	411	95% Student's-t UCL	
128-B-II_Staging pile area	non-Rad Bis(2-eth)	ytheay() phthistate	117-61-7	10	9	1	90	HE/KE	660	660	24	190	0.83	152	95% KM (Chebyshery) UCI.	Warning: There are only 9 Detected Values in this data Not it should be noted that even though limitaling may be performed on this data sot the resolding calculations may n be reliable enough to draw conclusions
128-8-3_Staging pile area	nen-Rad Boron		7440-42-8	10	10	0	100	ug/kg	-	-	740	11,300	0.85	6,058	95% Student's-t UCL Muximum Detect	Minerales Code one distinct the value was detected first
128-8-3_Staging pile area	non-Rad Chlordan		57-74 -9	10	1	9	10	HE/NE	1.3	13	0.83	0.83	0	0.83	Newsoniam Defact	Warning: Only one distinct data value was detected if POUL (or any other software) should not be used on such a data a it is suggested to use alternative site specific values determined by the Poject Teem to estimate environmental parameters (e.g., EPC, STV). The data set for variable Chilodiane was not processed.

					Tak	ie 48. 190-B/C	Source Operal	ide Unit Expo	sers Point Co	ncontration Sum	mary	-				
Waste Sile Englaine Unit	Analyte Group	Analyte	GAS No.	Total Entoples	Tetal Detecto	Total New- Defects	Programmy of Defection	Units	Dytection Limit	Debation Limit	Coincied Result	Debeted Sepalt	Goefficient of Vertation	Aspessor Point Consentration	Superiors Paint Consentration State	Connect
128-8-3 Staging pile area 128-8-8 Staging pile area	non-Rad	Chrysene	7440-47-3 218-01-9	10	4	6	100 40	μg/kg μg/kg	330	340	10,300	18,200 60	0.18 0.25	15,057 58	95% Student's-t UCL 95% KM (t) UCL	Warning: There are only 4 Distinct Detected Values in this da Note: It should be noted that even though hootstrap may be performed on this data set the resulting calculations may not
														-		be reliable enough to draw conclusions
128-8-3 Staging pile area 128-8-3 Staging pile area	non-Rad	Cotalt	7440-48-4 7440-50-8	10	10	0	100	ug/kg	-	-	7,300 13,200	8,500 30,500	0.054	8,002 22,820	95% Steelent's-t UCL 95% Steelent's-t UCL	
128-9-3 Staging pile ares	non-Rad	Dibere[a,h]aethracene	53-70-8	30	1	9	10	HE/KE	330	340	18	13	0	18	Meximum Defect	Warring: Cirly one distinct data value was detected? ProUCI (or any other softwere) should not be used on such a data so it is suggested to use afterward sets peerfic values determined by the Project Team to attinume environmental parameters (e.g., EPC, ETV). The data set for variable Olbert[a,h]andruccene was not processed!
125-8-5_Stuging pile area	non-Rad	Dielolin	60-57-1	30	4	6	40	HE/SE	1.8	1.8	1.4	12	0.84	6.4	85% KM (Perceville Boetstrap) UCL	Warning: There are only 4 Distinct Detected Values in this di Note: it should be noted that even though hootstrap may be performed on this data set the resulting caletions may no be reliable enough to draw conclusions
128-0-3 Staging alle area	non-Rad	Di-ro-lively (grind) value to	84-74-2	30	5	5	50	не/че	880	340	22	34	0.17	38	BS% KM (f) UCL	Warning: There are only 5 Detected Values in this data Note: R should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions.
128-8-3_Stagling pile area	non-Rad	Fluoranthene	206-44-0	30	5	7	30	µg/kg	330	340	17	54	0.52	54	95% ICM (Percentile Bootstrap) UCL	Warning: Recommended UCL exceeds the maximum observation Note: DUZ is not a recommended method. Note Suggestions regarding the selection of a 95% UCL, are provide to help the user to select the most appropriate 95% UCL.
128-8-3_Stuging pile area	ren-Rad	Hexavalent Chromium	18540-29-0	10	7	1	79	ив/чв	200	200	220	.950	0.15	269	85% KM (Percentille Breststrap) UCS	Warning: There are only 7 Detected Values in this data Note it should be nated that even though beetstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions
128-8-3 Staging pile area	non-Rad	indeno(1,2,3-cil)pyrene	193-39-5	10	2		20	меле	330	340	23	24	0.030	24	Meximum Detect	Recommended UCL Exceeds Maximum Concentration: EPC defaulting to Maximum Concentration since 97.5% and 99% Chebyshev(Mean, Sd) UCLs were not calculated.
128-B-3_Staging pile area	non-Red		7439-89-6	10	10	0	100	μg/kg	-	-	1.698+07	2.02E+07	0.057	1.88E+07	95% Student's-t UCL	
128-8-3_Staging pile area	non-Rad		7439-92-1 7439-96-5	10	10	0	100	με/kg με/kg	_		5,700 362,000	33,000 410,000	0.68	17,980 390,312	95% Approximate Gamma UCL 95% Student's-t UCL	
128-B-3_Staging pile area 128-B-3_Staging pile area	non-Rad	Manganese Mercury	7439-97-6	10	8	2	80	µg/kg	10	20	20	460	1.0	368	95% KM (Chebyshev) UCL	Warning: There are only 8 Detected Values in this data Note: It should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions.
128-8-3_Staging piln area	non-Rad	Methosychilor	72-43-5	10	3	7	30	µg/kg	1.3	13	2.3	4.3	0.30	4.3	95% KM (Percantile Bootstrap) UCL	Warning: There are only 8 Distinct Detected Values in this do set The number of detected data may not be adequate arous to perform GOF tests, hooststrap, and 80% methods. Those methods will return a "N/A" value on your output display!
128-8-3_Staging plin area	non-Rad	Methylene chloride	75-08-2	10	10	0	100	ps/kg	-	-	15	22	0.13	10	95% Student's-t UCL	
128-8-3 Staging plie area	non-Rad	Mickel	7440-02-0	10	10	0	100	не/ке	330	-	10,700	17,200	0.16	13,537	95% Approximate Gamma UCI,	
128-8-3_Staging pile area	non-Rad	Руготи	129-00-0	10	4	٠	40	HE/NE	330	340	21	75	0.90		95% RRM (t) UCL	Wereday: There are only 4 Obstinct Deboted Values in this du flote: It should be noted that even though bootstrap may be performed on this data set the resulting calculations may not be reliable enough to draw conclusions.
128-0-3_Staging pile area	non-Rad	Toluenn	305-88-3	10	S	5	50	HE/KE	5.0	5.0	1.0	1.0	0	1.0	Mandanners Dertrect	Warning: Only one divinct data value was detected! ProUCI (or any other software) should not be used on such a data at its suggested to use alternative atta specific values determined by the Project Team to estimate environmental parameters (e.g., EPC, ETV). The data set for variable Toluent was not corespond!
125-0-0_Steging pile area	non-Red	Total petroloum hydrocarbons	ТРН	10	2		20	HE/NE	133,000	138,000	154,000	178,000	0.11	178,000	95% KM (% Bootstrap) UCL	Winning: Data set has only 2 distinct Detected Values. This saw not be elemente enough to compute meaningful and reliable test values to satisful and endembers. The Project Tesm may decide to use afternative site specific values to extimate environmental parameters (e.g., EPC, BTV).
128-8-3 Staging pile area 128-8-3 Staging pile area	non-Rad non-Rad	Vanedium Myteries (total)	7440-42-2 1330-20-7	10	10	0 B	100 20	HE/HE	\$.0	5.0	1.0	1.0	0.063	38,623 1.0	95% Student's-t UCL Medinson Detect	Warring Cally one distinct data value was detected. ProUCI (or any other archance) should not be used on such a data or it is suggested to use alternative not layerfor value: determined by the Project Years to estimate environmental parameters (ag., EVC, EVV). The data set for variable Xylens (oxel) was not procussed)
128-8-3_Staging pile area 128-8-3_Staging pile area_Pocused	non-Rad non-Rad	Zinc 4,4'-DDE (Dichlorodiphenyldichloroethylene)	7440-66-6 72-55-0	10	10	0	100	he/ke		-	40,300	133,000 3.6	0.46	79,106 3.6	95% H-UCL Minimum Detect	Focused Sexualing Design: EPC defaults to Manhaum Concentration.
128-8-3_Staging pile area_Focused	non-Red	Akaminom	7429-80-5	2	2	0	100	HE\JA	-	-	7.14E+06	7.68E+06	0.052	7,88E+06	Maximum Detect	Focused Sempling Design: EPC defaults to Maximum Concentration.
128-9-5_Staging pile area_Focused	non-Rad	Aroclor-1254	11097-00-1	1	1	0	100	HE/NE	-		120	120	0	120	Maximum Detect	Focused Sempling Design: EPC defaults to Maulenous Consentration.
128-8-5_Staging pile area_Focused		Arector-1260	11096-82-5	1	1	0	100	HE/pg	-	-	19	19	0	28	Maximum Detect	Procured Sempling Design: EPC defeeds to Meximum Concentration.
129-8-3_Staging pile area_Fecused		Arsenic	7440-98-2	2	2	6	100	HE/git	-	**	8,500	3,800	0.058	3,800	Maximum Detect	Fecused Sampling Design: EPC defaults to Madesum Consentration.
128-8-3_Staging pile area_Focused	non-liad	Berlum	7440-38-5	2	2	0	200	HB/gR	-	-	178,000	279,000	0.33	279,000	Manimum Detect	Focused Sampling Design: EPC defaults to Masterias Concentration.

106-BIC Source Operable Unit Exposure Point Concentration Summary	

Marks Site Decision Malt	Analyte Green	Analyte	CAS No.	Total	Total	Tetal Hon-	Fragmency of Options	theffe.	Molmuse Detection Limit	- Debelier Limit	Sheimper Detected Report	Detected Second	Quefficient of Variation	Exposure Point Competitution	Exposure Point Concentration State	Commant
28-8-3_Staging pile area_Focused	non-Rad	Beryllium	7440-41-7	2	2	0	300	HE/KE	-	-	710	830	0.11	830	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	329-85-7	1	1	0	300	HE/NE	-		0.54	0.54	0	0.54	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
18-8-3_Staging pile area_Focused	non-Rad	Bio(2-ethylhenyl) phthalate	117-81-7	1	1	0	100	HE/KE	-	-	29	29	0	29	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Boron	7440-42-8	2	2	0	300	HE/KE	-	-	8,000	17,500	0.53	17,500	Maximum Defact	Focused Sampling Dealgn: EPC defaults to Maximum Concentration.
18-8-3_Staging pile area_Focused	non-Rad	Chromium	7440-47-3	2	2	0	100	HE/KE	-	-	12,200	12,500	0.017	12,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
8-8-3_Staging pile area_Focused	non-Rad	Cobalt	7440-48-4	2	2	0	100	HE/KE	-		7,900	8,000	0.065	8,000	Maximum Detect	Focused Sampling Dealgry: EPC defaults to Maximum Concentration.
28-8-5_Staging pile area_Focused	non-Rad	Copper	7440-50-8	2	2	0	100	ME/48	-	-	15,800	17,900	0.088	17,900	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile aree_Focused	non-Rad	Heuwelert Chromium	18540-29-8	1	1	0	100	HE/RE	-	-	1,100	1,100	0	1,100	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	iron	7439-89-6	2	2	0	100	HE/NE	-	-	1.78E+07	1.85 E+07	0.027	1.85E+07	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Lead	7430-92-1	2	2	D	100	HE/KE	-	-	10,600	14,500	0.22	14,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Manganese	7439-96-5	2	2	0	100	HE/KE	-	_	372,000	390,000	0.033	390,000	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Mercury	7439-97-6	2	2	0	100	ME/KE	-		90	120	0.20	120	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Mathylene chloride	75-09-2	1	1	0	100	ME/KE	-	-	11	11	0	11	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Nickel	7440-02-0	2	2	0	100	HE/KE	_		11,100	12,200	0.067	12,200	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Silver	7440-22-4	2	1	1	50	HE/KE	200	200	250	250	0	250	Maximum Detect	Focused Sampling Dealgn: EPC defaults to Maximum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Vanadlem	7440-62-2	2	2	0	100	HE/KE	-	-	37,000	37,200	0.0038	37,200	Maximum Detect	Focused Sampling Design: EPC defaults to Missimum Concentration.
28-8-3_Staging pile area_Focused	non-Rad	Zinc	7440-66-6	2	2	0	100	HE/KE	-	-	50,200	59,500	0.12	59,500	Maximum Detect	Focused Sampling Design: EPC defaults to Maximum

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection* (Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (ug/kg	is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		kg m or g m	(m)	or pCl/g)	of Groundwater?
100-B-1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	45	_6	59		-
100-B-1_Shallow_1	non-Rad	Diethylphthalate	84-66-2	µg/kg	48	63,829	59	1,089	No
100-B-1_Shallow_1	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg		88,471	59	1,510	No
100-B-1_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	1.5	836,540	80	10,418	No
100-B-1_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	1.3	_c	80	-c	_
100-B-1_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	2.9	_c	80		-
100-B-1 Shallow 2	non-Rad	Aldrin	309-00-2	μg/kg	1.1	9,878	80	123	No
100-B-1_Shallow_2	non-Rad	Alpha-BHC	319-84-6	μg/kg		1.7	80	0.021	Yes
100-B-1_Shallow_2	non-Rad	Alpha-Chlordane	5103-71-9	μg/kg	1.3	1.42E+06	80	17,697	No
100-B-1_Shallow_2	non-Rad	Anthracene	120-12-7	μg/kg		4.27E+07	80	531,455	No
100-B-1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	μg/kg	33	_c	80	_6	-
100-B-1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	120	_c	80		_
100-B-1 Shallow 2	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	30	_6	80	_c	-
100-B-1 Shallow 2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		-¢	80	_6	-
100-B-1 Shallow 2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_t	80	_ c	-
100-B-1_Shallow_2	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg		3.8	80	0.047	Yes
100-B-1_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_c	80	- C	163
100-B-1_Shallow_2	non-Rad	Carbazole	86-74-8	µg/kg		537	80	6.7	Yes
100-B-1_Shallow_2	non-Rad	Chlordane	57-74-9	µg/kg		1.42E+06	80	17,697	No No
100-B-1_Shallow_2	non-Rad	Chrysene	218-01-9	µg/kg		1,42,5700	80	_ c	-
100-B-1_Shallow_2	non-Rad	Dibenzofuran	132-64-9	µg/kg		3,353	80	42	No
100-B-1_Shallow_2	non-Rad	Dieldrin	60-57-1	µg/kg		166	80	2.1	No
100-B-1 Shallow 2	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	80	1,102	No
100-B-1_Shallow_2	non-Rad	Endosulfan I	959-98-8	µg/kg		7,192	80	90	No
100-B-1 Shallow 2	non-Rad	Endosulfan II	33213-65-9	µg/kg		7,192	80	90	No
100-B-1_Shallow_2	non-Rad	Endrin	72-20-8	μg/kg		1,219	80	15	No
100-B-1_Shallow_2	non-Rad	Fluoranthene	206-44-0	µg/kg	_	3.89E+08	80	4.84E+06	No
100-B-1_Shallow_2	non-Rad	Fluorene	86-73-7	µg/kg		97,154	80	1,210	No
100-B-1_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	µg/kg		3.8	80	0.047	Yes
100-B-1_Shallow_2	non-Rad	Heptachlor	76-44-8	µg/kg	5.5	8.7	80	0.11	Yes
100-B-1_Shallow_2	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	1.4		80	_¢	-
100-B-1_Shallow_2	non-Rad	Methoxychlor	72-43-5	µg/kg	5.6	_6	80		-
100-B-1 Shallow 2	non-Rad	Pyrene	129-00-0	µg/kg	750	3.89E+08	80	4.84E+06	No
100-B-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	38	265	Yes
100-B-1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	38	1.03E+07	No
100-B-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	103	_c	38	~c	-
100-B-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	72	1,256	38	33	Yes
100-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	15,900	_c	38	_*	_
100-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	7,800	c	38	_c	-
100-B-1 Shallow Focused	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg		1.00E+06 ^d	38	1.00E+06 ^d	No
100-B-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g		_ c	38	_c	_
100-B-11_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg			2.0	- 6	_
	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	2.0	5.95E+06	No
100-B-11_Shallow_Focused 100-B-11_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg µg/kg		1.19E+07	2.0	5,000	No No
100-B-11_Shallow_Focused	non-Rad	Barium	7440-39-3	HE/KE		3.89E+08	2.0	1.95E+08	No
100-B-11_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		3.63(+06	2.0	1.55E+08	
100-B-11_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg		348,488	2.0	174,244	No
100-B-11_Shallow_Focused	non-Rad	Cadmium	7440-42-8	µg/kg		1,256	2.0	628	No
100-B-11_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		1,230	2.0	- 020	-
100-B-11_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ME/KE		9.52E+06	2.0	4.76E+06	No
100-B-11_Shallow_Focused 100-B-11_Shallow_Focused	non-Rad	Copper	7440-48-4	ME/KE		7.69E+06	2.0	3.84E+06	No
100-B-11_Shallow_Focused	non-Rad	Iron	7439-89-6	HE/KE		2.92E+08	2.0	1.46E+08	No
100-B-11_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg		2.925400	2.0		~
100-B-11_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	2.0	1.95E+08	No
100-B-11_Shallow_Focused 100-B-11_Shallow_Focused	non-Rad	Mercury	7439-96-5	HE/KE		3.89E+08 1.34E+07	2.0	6.72E+06	No
100-B-11_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	2.0	281,942	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{ka} \cdot m \text{ or } \frac{pCl}{a} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-11 Shallow Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	2.0	1.95E+08	No
100-B-11_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		-	2.0	_c	-
100-B-11_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	_	3.89E+08	2.0	1.95E+08	No
100-B-11 Shallow Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	2,121	2.0	1,060	No
100-B-14:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g		-6	18	_c	-
100-B-14:1_Deep_Focused	Rad	Carbon-14	14762-75-5	pCi/g			2.0	_°	-
100-B-14:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	336	6,000°	45	6,000°	No
100-B-14:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	, c	45	_c	_
100-B-14:2 Shallow 1	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	34	2,896	59	49	No
100-B-14:2_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg		2,030	59	c	-
100-B-14:2_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,350	10.000	59	169	Yes
100-B-14:2_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg		3,89E+08	59	6.57E+06	No
100-B-14:2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg		-¢	59	c	_
100-B-14:2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		_ c	59	_6	-
100-B-14:2_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_c	59		_
	_		7440-41-7				59		
100-B-14:2_Shallow_1	non-Rad	Beryllium		hg/kg			59	0.064	Yes
100-8-14:2_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachiorocyclohexane (beta-BHC)	319-85-7	μg/kg		3.8 348.488	59	5,887	No No
100-B-14:2_Shallow_1	non-Rad	Boron Cadmium	7440-42-8 7440-43-9	μg/kg μg/kg		1,256	59	21	Yes
100-B-14:2_Shallow_1	non-Rad	Chromium	7440-43-3	µg/kg		1,230 c	59	c	-
100-B-14:2_Shallow_1	_			_			59	c	-
100-B-14:2_Shallow_1	non-Rad	Chrysene	218-01-9	hE/kB			59		No
100-B-14:2_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	59	160,781 129,892	No
100-B-14:2_Shallow_1	non-Rad	Copper	7440-50-8 18540-29-9	µg/kg		7.69E+06	59		No
100-B-14:2_Shallow_1	non-Rad	Hexavalent Chromium		µg/kg		6,000°	59	6,000° 4.94E+06	Yes
100-B-14:2_Shallow_1	non-Rad	Iron	7439-89-6 7439-92-1	µg/kg		2.92E+08	59	4.342+06	163
100-B-14:2_Shallow_1	non-Rad	Lead		µg/kg			59	_c	_
100-B-14:2_Shallow_1	non-Rad	Lithium	7439-93-2	µg/kg					
100-B-14:2_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg		3.89E+08 1.34E+07	59 59	6.57E+06 226,873	No No
100-B-14:2_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg		563,885	59	9,525	No
100-B-14:2_Shallow_1	non-Rad	Molybdenum Naphthalene	7439-98-7 91-20-3	μg/kg μg/kg		6,798	59	115	No
100-B-14:2_Shallow_1 100-B-14:2_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	59	6.57E+06	No
100-B-14:2_Shallow_1	non-Rad	Strontium	7440-24-6	µg/kg		3.89E+08	59	6.57E+06	No
100-B-14:2_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg		-6	59		_
100-B-14:2_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg		3.89E+08	59	6.57E+06	No
100-B-14:2_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g		2,121	59	36	No
100-B-14:2_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg		836,540	12	68,569	No
100-B-14:2_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg		-c	12	_c	-
100-B-14:2_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg		c	12	_c	_
100-B-14:2_Shallow_2	non-Rad	Acenaphthene	83-32-9	µg/kg		84,728	12	6,945	No
100-B-14:2_Shallow_2	non-Rad	Aldrin	309-00-2	µg/kg		9,878	12	810	No
100-B-14:2_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg		_c	12	_c	-
100-B-14:2_Shallow_2	non-Rad	Anthracene	120-12-7	μg/kg		4.27E+07	12	3.50E+06	No
100-B-14:2 Shallow 2	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	12	975,232	No
100-B-14:2_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	μg/kg		_c	12	-c	_
100-B-14:2_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg		_c	12	_6	_
100-B-14:2 Shallow 2	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	12	820	Yes
100-B-14:2_Shallow_2	non-Rad	Sarium	7440-39-3	µg/kg		3.89E+08	12	3.19E+07	No
100-B-14:2_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	_	_c	12	-c	_
100-B-14:2_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg		_6	12		-
100-B-14:2_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		_6	12	_ =	
100-B-14:2_Shallow_2		Benzo(k)fluoranthene	207-08-9	µg/kg			12	· c	
TOO-0-14:Z_SnalloW_Z	non-Rad			_			12	_6	
400 D 44 D 61 - # - D		Beryllium	7440-41-7	µg/kg	508		12		
100-B-14:2_Shallow_2 100-B-14:2_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	27	-c	12	_6	_

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Manta Sita / Pagisian Hait	Analyte	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soil Screening Level Protective of Groundwater?
Waste Site/Decision Unit 100-8-14:2 Shallow 2	Group non-Rad	Cadmium	7440-43-9	µg/kg		1,256	12	103	Yes
100-B-14:2_Shallow_2	non-Rad	Carbazole	86-74-8	µg/kg		537	12	44	Yes
100-B-14:2_Shallow_2	non-Rad	Chlordane	57-74-9	µg/kg	1.2	1.42E+06	12	116,479	No
100-B-14:2_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	10,992		12	_6	-
100-B-14:2_Shallow_2	non-Rad	Chrysene	218-01-9	µg/kg	830	_c	12	_c	-
100-B-14:2_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,290	9.52E+06	12	780,185	No
100-B-14:2 Shallow 2	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	12	630,297	No
100-B-14:2_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	318	7.052.00	12	_ c	-
100-B-14:2_Shallow_2	non-Rad	Dibenzofuran	132-64-9	µg/kg	82	3,353	12	275	No
100-8-14:2_Shallow_2	non-Rad	Dieldrin	60-57-1	µg/kg	3.6	166	12	14	No
100-B-14:2_Shallow_2	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	28	88,471	12	7,252	No
100-B-14:2_Shallow_2	non-Rad	Di-n-octylphthalate	117-84-0	µg/kg	95	_ c	12	_c	-
100-B-14:2 Shallow 2	non-Rad	Fluoranthene	206-44-0	µg/kg	1,336	3.89E+08	12	3.19E+07	No
100-B-14:2_Shallow_2	non-Rad	Fluorene	86-73-7	µg/kg	130	97,154	12	7,963	No
100-B-14:2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	418	6,000°	12	6,000°	No
100-B-14:2_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	423	6,000	12	5,000	-
100-B-14:2_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	12	2.40E+07	No
100-B-14:2 Shallow 2	non-Rad	Lead	7439-92-1	µg/kg	35,014	2.322400	12	2.405707	-
			7439-93-2		6,800		12		_
100-B-14:2_Shallow_2	non-Rad	Lithium		μg/kg					No
100-B-14:2_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	341,978	3.89E+08	12	3.19E+07	No No
100-B-14:2_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	118	1.34E+07	12	1.10E+06 46,220	No No
100-B-14:2_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	794 55	563,885 6,798	12	557	No No
100-B-14:2_Shallow_2	non-Rad	Naphthalene	91-20-3 7440-02-0	μg/kg μg/kg	15,473	3.89E+08	12	3.19E+07	No
100-B-14:2 Shallow 2	non-Rad	Nickel Pentachlorophenol	87-86-5		1,900	330	12	27	Yes
100-B-14:2_Shallow_2	non-Rad		129-00-0	μg/kg μg/kg		3.89E+08	12	3.19E+07	No
100-B-14:2_Shallow_2 100-B-14:2_Shallow_2	non-Rad	Pyrene Strontium	7440-24-6	µg/kg	35,581	3.89E+08	12	3.19E+07	No
100-8-14:2_Shallow_2	non-Rad	Tin	7440-31-5	µg/kg		3.832708	12	-0	-
100-B-14:2_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg			12		_
			7440-66-6	µg/kg	85,443	3.89E+08	12	3.19E+07	No
100-B-14:2_Shallow_2	non-Rad	Zinc	7429-90-5			3.892+06	19	3.152+07	NO
100-B-14:2_Shallow_3	non-Rad	Aluminum		µg/kg			19		_
100-B-14:2_Shallow_3	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.9	^c			
100-B-14:2_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	19	518	Yes
100-B-14:2_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg		3,89E+08	19 19	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	333	_6		- Comment of the Comm	
100-B-14:2_Shallow_3	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg		3.8	19	0.20	Yes
100-B-14:2_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		en C	19	_c	-
100-B-14:2_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg		348,488	19	18,056	No
100-B-14:2_Shallow_3	non-Rad	Cadmium	7440-43-9	he/ke		1,256	19	65	Yes
100-B-14:2_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg		_t	19	_e	-
100-B-14:2_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	19	493,174	No.
100-B-14:2_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	19	398,426	No
100-B-14:2_Shallow_3	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	19	4,584	No
100-8-14:2_Shallow_3	non-Rad	Endrin Characteristics	72-20-8	μg/kg		1,219	19	63 c coot	No No
100-B-14:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ME/KE	-	6,000°	19	6,000°	
100-B-14:2_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	19 19	1.52E+07	Yes
100-B-14:2_Shallow_3	non-Rad	Lead	7439-92-1	μg/kg		c		_ e	-
100-B-14:2_Shallow_3	non-Rad	Lithium	7439-93-2	ME/KE		_c	19	_,	_
100-B-14:2_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	19	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	19	695,900	No
100-B-14:2_Shallow_3	non-Rad	Methoxychlor	72-43-5	µg/kg		c	19	_c	_
100-B-14:2_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	19	29,217	No
100-B-14:2_Shallow_3	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	19	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad		129-00-0	μg/kg		3.89E+08	19	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad	Strontium	7440-24-6	μg/kg		3.89E+08	19	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad	Tin	7440-31-5	με/kε	1,351		19	c	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu_0}{\mu_0} \frac{\mu_0}{\mu_0} \cdots \mu_0\)	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCi/g)	("8 8 /	(m)	or pCi/g)	of Groundwater?
100-B-14:2_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg		-	19	_6	_
100-B-14:2_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg		3.89E+08	19	2.02E+07	No
100-B-14:2_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.077	_	19	_6	-
100-B-14:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	6.35E+06	-6	2.0	c	
100-B-14:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,100	10,000	2.0	5,000	No
100-B-14:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	73,100	3.89E+08	2.0	1.95E+08	No
100-B-14:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	812	_c	2.0		-
100-B-14:2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	300	_°	2.0	_6	-
100-B-14:2_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	3,000	348,488	2.0	174,244	No
100-B-14:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	241	1,256	2.0	628	No
100-B-14:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,400	_c	2.0	_°	-
100-B-14:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,900	9.52E+06	2.0	4.76E+06	No
100-B-14:2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	16,500	7.69E+06	2.0	3.84E+06	No
100-B-14:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	2.0	6,000°	No
100-B-14:2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	2.0	1.46E+08	No
100-B-14:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	8,900	_c	2.0		-
100-B-14:2_Shallow_Focused	non-Rad	Lithium	7439-93-2	µg/kg	6,400	_c	2.0	_ c	-
100-B-14:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	347,000	3.89E+08	2.0	1.95E+08	No
100-B-14:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	44	1.34E+07	2.0	6.72E+06	No
100-B-14:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	2.0	1.95E+08	No
100-B-14:2_Shallow_Focused	non-Rad	Strontium	7440-24-6	μg/kg		3.89E+08	2.0	1.95E+08	No
100-B-14:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		~c	2.0	_4	
100-B-14:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	50,800	3.89E+08	2.0	1.95E+08	No
100-B-14:3_Deep_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.19E+06	_e	2.0	_c	-
100-B-14:3_Deep_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	2.0	5,000	No
100-B-14:3_Deep_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	2.0	1.95E+08	No
100-B-14:3_Deep_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		7.0	2.0	_6	-
100-B-14:3_Deep_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	46	_6	2.0	_c	_
100-B-14:3_Deep_Focused	non-Rad	Boron	7440-42-8	µg/kg		348,488	2.0	174,244	No
100-B-14:3_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,600	_c	2.0		-
100-B-14:3_Deep_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,900	9.52E+06	2.0	4.76E+06	No
100-B-14:3_Deep_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	2.0	3.84E+06	No
100-B-14:3_Deep_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	2.0	1.46E+08	No
100-B-14:3_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg		_c	2.0	_c	-
100-B-14:3_Deep_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	2.0	1.95E+08	No
100-B-14:3_Deep_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	2.0	281,942	No
100-B-14:3_Deep_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	2.0	1.95E+08 13,765	No
100-B-14:3_Deep_Focused	non-Rad	Silver Vanadium	7440-22-4 7440-62-2	µg/kg		27,530	2.0	13,765	No
100-B-14:3_Deep_Focused				µg/kg					No
100-B-14:3_Deep_Focused	non-Rad	Zinc	7440-66-6 7429-90-5	µg/kg	45,900 7.57E+06	3.89E+08	0.010	1.95E+08	- NO
100-8-14:5_Shallow_Focused				µg/kg		1.19E+07	0.010	1.19E+09	No
100-B-14:5_Shallow_Focused	non-Rad	Antimony	7440-36-0 7440-38-2	µg/kg	310	1.19E+07 10.000	0.010	1.19E+09 1.00E+06	No No
100-B-14:5 Shallow Focused	non-Rad	Arsenic Barium	7440-38-2	µg/kg		3.89E+08	0.010	3.89E+10	No No
100-B-14:5_Shallow_Focused 100-B-14:5_Shallow_Focused	non-Rad	Beryllium	7440-39-3	μg/kg μg/kg		3.89£+08	0.010	3.89£+10	NO
100-B-14:5_Shallow_Focused	non-Rad	Boron	7440-41-7	_		348,488	0.010	3.48E+07	No
100-B-14:5 Shallow Focused 100-B-14:5 Shallow Focused	non-Rad	Cadmium	7440-42-8	μg/kg		1,256	0.010	125,633	No No
100-B-14:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg μg/kg		1,236	0.010	_c	-
100-B-14:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	0.010	9.52E+08	No
100-B-14:5_Shallow_Focused	non-Rad	Copper	7440-48-4	µg/kg		7.69E+06	0.010	7.69£+08	No
100-B-14:5_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg μg/kg		2.92E+08	0.010	2.92E+10	No
100-B-14:5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg		2.322400	0.010	2.322+10	-
100-B-14:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	395,000	3.89E+08	0.010	3.89E+10	No
100-B-14:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg μg/kg		563,885	0.010	5.64E+07	No
100-B-14:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	0.010	3.89E+10	No
100-B-14:5_Shallow_Focused	non-Rad		7440-22-4	µg/kg		27,530	0.010	2.75E+06	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Wasta Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow	5TOMP 1D 70:30/1000 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCl/g)	(kg mor g m)	(m)	or pCi/g)	of Groundwater?
100-B-14:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	69,400	_c	0.010	_6	-
100-B-14:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	76,200	3.89£+08	0.010	3.89E+10	No
100-B-14:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	9.26E+06	_c	11	_6	-
100-B-14:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,800	10,000	11	917	Yes
100-B-14:6_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	364,000	3.89E+08	11	3.57E+07	No
100-B-14:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	470	_c	11	_ •	-
100-B-14:6_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	5,800	348,488	11	31,971	No
100-8-14:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	250	1,256	11	115	Yes
100-B-14:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	49,100	e	11	_6	-
100-B-14:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,600	9.52E+06	11	873,235	No
100-B-14:6_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	21,000	7.69E+06	11	705,470	No
100-B-14:6_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.67E+07	2.92E+08	11	2.68E+07	No
100-B-14:6_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	10,800	_c	11	_c	-
100-B-14:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	446,000	3.89E+08	11	3.57E+07	No
100-B-14:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	1,400	1.34E+07	11	1.23E+06	No
100-B-14:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	940	563,885	11	51,733	No
100-B-14:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	25,100	3.89E+08	11	3.57E+07	No
100-B-14:6_Shallow_Focused		Silver	7440-22-4	µg/kg	90	27,530	11	2,526	No
100-B-14:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	53,900	_c	11	_6	1
100-B-14:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	57,000	3.89E+08	11	3.57£+07	No
100-B-14:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.14E+07	_c	5.7	_6	-
100-B-14:7_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	410	1.19E+07	5.7	2.09E+06	No
100-B-14:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	5,200	10,000	5.7	1,754	Yes
100-8-14:7_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	128,000	3.89E+08	5.7	6.82E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	430	_6	5.7	~°	-
100-B-14:7_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg		348,488	5.7	61,138	No
100-B-14:7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg		1,256	5.7	220	Yes
100-B-14:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	25,400	7.6	5.7	_6	
100-B-14:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,600	9.52E+06	5.7	1.67E+06	No
100-B-14:7_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	21,300	7.69E+06	5.7	1.35E+06	No
100-B-14:7_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	5.7	5.13E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	12,100	_c	5.7	_c	-
100-B-14:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	408,000	3.89E+08	5.7	6.82E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	5.7	2.36E+06	No
100-8-14:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	5.7	98,927	No
100-8-14:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	5.7	6.82E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	52,500	_c	5.7	c	-
100-B-14:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	79,400	3.89E+08	5.7	6.82E+07	No
100-B-16_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	24	_c	11		-
100-B-16_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	11	893	Yes
100-B-16_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	226,000	3.89E+08	11	3.47E+07	No
100-B-16_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	26	_c	11	_c	
100-B-16_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	21		11	_c	-
100-B-16_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	61	_6	11	_6	
100-B-16_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_c	11	_ E	w
100-B-16_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_c	11	-6	
100-8-16 Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	11	112	Yes
100-8-16_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		_c	11	e	Jes
100-B-16_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg			11	_ c	-
The state of the s				_					
100-B-16_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg		88,471	11	7,899	No
100-8-16 Shallow Focused	non-Rad	Fluoranthene Lead	206-44-0 7439-92-1	µg/kg		3.89E+08	11	3.47E+07	No
100-8-16_Shallow_Focused	-			μg/kg					
100-B-16 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	11	1.20E+06	No
100-B-16 Shallow Focused	non-Rad	Pyrene	129-00-0 7440-22-4	μg/kg		3.89E+08	11	3.47E+07 2,458	No
100-B-16_Shallow_Focused 100-B-18_Shallow_Focused		Acenaphthene	83-32-9	μg/kg μg/kg		27,530 84,728	11 20	4,301	No No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu g}{\mu_c} \cdots \text{ or } \frac{\mu C L}{\mu} \cdots \text{ m} \)	Site Width in Direction of Groundwater Flow		Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit 100-B-18 Shallow Focused	non-Rad	Analyte Name Acetone	CAS No. 67-64-1	µg/kg	(µg/kg or pCl/g) 73	17,372	(m) 20	or pCi/g) 882	of Groundwater?
100-B-18_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg			20	c	
	non-Rad	Anthracene	120-12-7	µg/kg	580	4.27E+07	20	2.17E+06	No
100-B-18_Shallow_Focused 100-B-18_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	20	603,951	No
100-B-18_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg		c	20	_ c	_
100-B-18_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg		¢	20		
100-B-18_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,000	10,000	20	508	Yes
100-B-18_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	20	1.97E+07	No
100-B-18_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	250	_ c	20	c	_
100-B-18_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	300	c	20	_¢	_
100-B-18_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg			20	_c	_
100-B-18 Shallow Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	100	-6	20	e	-
	non-Rad		7440-41-7	µg/kg	640		20		-
100-B-18_Shallow_Focused	non-Rad	Beryllium	7440-41-7	-	34,200	348,488	20	17.690	Yes
100-B-18_Shallow_Focused 100-B-18_Shallow_Focused	non-Rad	Boron Cadmium	7440-42-8	μg/kg μg/kg	13,200	348,488 1,256	20	17,690	Yes Yes
100-B-18_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		1,236	20	6	
100-B-18_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg		c	20		-
100-B-18 Shallow Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,200	9.52E+06	20	483.160	No
100-B-18_Shallow_Focused	non-Rad	Copper	7440-50-8	HE/KE	18,900	7.69E+06	20	390,336	No
100-B-18 Shallow Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	hg/kg		_c	20		-
100-B-18 Shallow Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	300	3.89E+08	20	1.97E+07	No
100-8-18_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg		97,154	20	4,932	No
100-B-18_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	210	_e	20	_c	
100-B-18_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg		2.92E+08	20	1.48E+07	Yes
100-B-18 Shallow Focused	non-Rad	Lead	7439-92-1	µg/kg		_c	20	_c	
100-B-18 Shallow Focused	non-Rad	Manganese	7439-96-5	µg/kg	356,000	3.89E+08	20	1.97E+07	No
100-B-18 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg	2,200	1.34E+07	20	681,770	No
100-B-18_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	960	563,885	20	28,624	No
100-B-18_Shallow_Focused	non-Rad	Naphthalene	91-20-3	μg/kg	440	6,798	20	345	Yes
100-B-18_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,100	3.89E+08	20	1.97E+07	No
100-B-18_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	510	3.89E+08	20	1.97E+07	No
100-B-18_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	730	9,013	20	458	Yes
100-B-18_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	222,000	1.00E+06 ^d	20	1.00E+06 ^d	No
100-B-18_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	46,500	_c	20	¢	60
100-B-18_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	20	1.97E+07	No
100-B-19_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg		_c	64	e	
100-B-19_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	970	1.19E+07	64	186,779	No Yes
100-B-19_Shallow_1 100-B-19_Shallow_1	non-Rad	Arsenic Barium	7440-38-2 7440-39-3	µg/kg µg/kg	2,658 57,930	10,000 3.89£+08	64 64	157 6.11E+06	No No
100-B-19_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	735	5.63£106	64	6	-
100-B-19 Shallow 1	non-Rad	Boron	7440-42-8	µg/kg	1,500	348,488	64	5,471	No
100-B-19_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	38,860	_t	64	5,471	-
100-B-19 Shallow 1	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	64	149,423	No
100-8-19_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	17,878	7.69E+06	64	120,716	No
100-B-19_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	886	6,000°	64	6,000°	No
100-B-19 Shallow 1	non-Rad	Iron	7439-89-6	µg/kg	2.37E+07	2.92E+08	64	4.59E+06	Yes
100-B-19_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	25,097	c	64	4,352700	-
100-B-19 Shallow 1	non-Rad	Manganese	7439-96-5	µg/kg	341,162	3.89E+08	64	6.11E+06	No
100-B-19_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	60	1.34E+07	64	210.846	No
100-B-19 Shallow 1	non-Rad	Nickel	7440-02-0	µg/kg	12,467	3.89£+08	64	6.11E+06	No
100-B-19_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	58,736	_6	64	_c	-
100-B-19_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	42,877	3.89£+08	64	6.11E+06	No
100-B-19_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg		c	16	t	**
100-B-19 Shallow 2	non-Rad	Antimony	7440-36-0	µg/kg	1,194	1.19E+07	16	725,477	No
100-B-19_Shallow_2		Arsenic	7440-38-2	μg/kg		10,000	16	610	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Pg	Site Width In Direction of Groundweter Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soli Screening Level Protective of Groundwester?
100-B-19_Shallow_2		Barium	7440-39-3	µg/kg		3.89E+08	16	2.37E+07	No
100-B-19_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg		°,	16	c	_
100-B-19 Shallow 2	non-Rad	Boron	7440-42-8	μg/kg		348,488	16	21,249	No
100-B-19_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	16	77	Yes
100-B-19_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	13,790	_c	16		-
100-B-19_Shallow_2	non-Rad	Cobalt	7440-48-4	μg/kg	7,998	9.52E+06	16	580,382	No
100-B-19_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	16	468,879	No
100-8-19_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg		6,000°	16	6,000°	No
100-8-19_Shallow_2	non-Rad	iron	7439-89-6	µg/kg		2.92E+08	16	1.78E+07	Yes
100-B-19_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg		_6	16	_¢	-
100-8-19_Shallow_2		Manganese	7439-96-5	µg/kg		3.89E+08	16	2.37E+07	No
100-8-19_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	16	818,955	No
100-B-19_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	16	34,383	No
100-B-19_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	16	2.37E+07	No
100-B-19_Shallow_2	non-Rad	Selenium	7782-49-2	µg/kg		9,013	16 16	550	Yes
100-B-19_Shallow_2		Vanadium	7440-62-2	µg/kg					_
100-B-19_Shallow_2		Zinc	7440-66-6	µg/kg		3.89E+08	16	2.37E+07	No
100-B-19_Shallow_4	non-Rad	Aluminum	7429-90-5	ME/KE			36	¢	_
100-B-19_Shallow_4	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	36	278	Yes
100-B-19_Shallow_4	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	36	1.08E+07	No
100-B-19_Shallow_4	non-Rad	Beryllium	7440-41-7	µg/kg		_t	36		-
100-B-19_Shallow_4	non-Rad	Boron	7440-42-8	µg/kg		348,488	36	9,680	No
100-B-19_Shallow_4	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	36 36	35	Yes
100-B-19_Shallow_4	non-Rad	Chromium	7440-47-3	µg/kg					
100-B-19_Shallow_4	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	36	264,396	No
100-B-19_Shallow_4	non-Rad	Copper	7440-50-8 18540-29-9	µg/kg		7.69E+06	36 36	213,601	No No
100-B-19_Shallow_4	non-Rad	Hexavalent Chromium		µg/kg		6,000° 2.92E+08		6,000° 8.12E+06	
100-B-19_Shallow_4	non-Rad	Iron	7439-89-6 7439-92-1	µg/kg		2.92E+08	36 36	8.12E+06	Yes
100-B-19_Shallow_4		Lead		µg/kg	+			1.08E+07	
100-B-19_Shallow_4 100-B-19_Shallow_4	non-Rad	Manganese	7439-96-5 7439-97-6	µg/kg		3.89E+08 1.34E+07	36 36	373,079	No No
100-B-19_Shallow_4	non-Rad	Mercury Molybdenum	7439-98-7	μg/kg μg/kg		563,885	36	15,663	No
100-B-19 Shallow 4	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	36	1.08E+07	No
100-B-19_Shallow_4	non-Rad	Vanadium	7440-62-2	HE/KE		3.05£100	36		
100-B-19_Shallow_4	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	36	1.08E+07	No
100-B-19_Shallow_5	non-Rad	Aluminum	7429-90-5	µg/kg			25	_ c	-
100-B-19_Shallow_5	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	25	397	Yes
100-B-19 Shallow 5	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	25	1.54E+07	No
100-B-19 Shallow 5	non-Rad	Beryllium	7440-41-7	µg/kg			25		-
100-B-19 Shallow 5	non-Rad	Boron	7440-42-8	µg/kg		348.488	25	13,829	No
100-B-19 Shallow 5	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	25	50	Yes
100-B-19_Shallow_5	non-Rad	Chromium	7440-47-3	µg/kg			25	_c	-
100-B-19_Shallow_5	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	25	377,709	No
100-B-19_Shallow_5	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	25	305,144	No
100-B-19_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	25	6,000°	No
100-B-19 Shallow 5	non-Rad	Iron	7439-89-6	µg/kg	+	2.92E+08	25	1.16E+07	Yes
100-8-19_Shallow_5	non-Rad	Lead	7439-92-1	µg/kg		_c	25	_c	_
100-8-19 Shallow 5	non-Rad	Manganese	7439-96-5	μg/kg		3.89E+08	25	1.54E+07	No
100-8-19_Shallow_5	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	25	532,971	No
100-B-19_Shallow_5	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	25	22,376	No
100-B-19_Shallow_5	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	25	1.54E+07	No
100-B-19_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg		_c	25	_6	-
100-B-19_Shallow_5	non-Rad	Zinc	7440-66-6	μg/kg	48,358	3.89E+08	25	1.54E+07	No
100-B-19_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg		_c	219	_'	-
100-B-19_Shallow_Focused	non-Rad	Antimony	7440-36-D	µg/kg		1.19E+07	219	54,328	No
100-B-19_Shallow_Focused	non-Rad		7440-38-2	µg/ks		10,000	219	46	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC//g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-19 Shallow Focused		Barium	7440-39-3	µg/kg	11 40 4 7 7 101	3.89E+08	219	1.78E+06	No
100-B-19_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		_6	219	_c	_
100-B-19_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg		348,488	219	1,591	Yes
100-B-19 Shallow Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	219	5.7	Yes
100-B-19_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg			219	_c	-
100-B-19_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,000	9.52E+06	219	43,462	No
100-B-19_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	22,800	7.69E+06	219	35,112	No
100-B-19_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	330	6,000°	219	6,000°	No
100-B-19_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	3.96E+07	2.92E+08	219	1.34E+06	Yes
100-B-19_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	17,400	_e	219		
100-B-19_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	376,000	3.89E+08	219	1.78E+06	No
100-B-19_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	17,100	1.34E+07	219	61,328	No
100-B-19_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg		563,885	219	2,575	No
100-B-19_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	219	1.78E+06	No
100-B-19_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		_c	219	_c	-
100-B-19_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	219	1.78E+06	No
100-B-20_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.50E+06	_c	3.2	¢	**************************************
100-B-20_Shallow_Focused	non-Rad	Arocior-1260	11096-82-5	μg/kg	8.5		3.2	_c	
100-B-20_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	2,800	10,000	3.2	3,125	No
100-B-20_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	3.2	1.22E+08	No
100-B-20_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	29		3.2	¢	-
100-B-20_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	32	_ c	3.2	_c	_
100-B-20_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	35	_c	3.2	_e	-
100-B-20_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	35	"	3.2	_c	-
100-B-20_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	320	_c	3.2	_c	
100-B-20_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg		348.488	3.2	108,903	No
100-B-20 Shallow Focused	non-Rad	Chromium	7440-47-3	µg/kg			3.2	c	-
100-B-20 Shallow Focused	non-Rad	Chrysene	218-01-9	µg/kg		_c	3.2	_c	-
100-B-20 Shallow Focused	non-Rad	Cobalt	7440-48-4	µg/kg	11,200	9.52E+06	3.2	2.97E+06	No
100-B-20_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	3.2	2.40E+06	No
100-B-20_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	3.2	27,647	No
100-B-20_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	43	3.89E+08	3.2	1.22E+08	No
100-B-20_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	21	_c	3.2	c	-
100-8-20_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.17E+07	2.92E+08	3.2	9.14E+07	No
100-B-20_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	20,900	_c	3.2	-c	-
100-B-20_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	354,000	3.89E+08	3.2	1.22E+08	No
100-B-20_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	327	1.34E+07	3.2	4.20E+06	No
100-B-20_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	599	563,885	3.2	176,214	No
100-B-20_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	10,800	3.89E+08	3.2	1.22E+08	No
100-B-20_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	3.2	1.22E+08	No
100-B-20_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg		9,013	3.2	2,817	No
100-B-20_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		_c	3.2	c	-
100-B-20_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	326,000	3.89E+08	3.2	1.22E+08	No
100-B-21:2_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg		_6	33	c	-
100-B-21:2_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	33	303	Yes
100-B-21:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	33	1.18E+07	No
100-B-21:2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg			33	c	-
100-B-21:2_Shallow	non-Rad	Boron	7440-42-8	µg/kg		348,488	33	10,560	No
100-B-21:2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	33	38	Yes
100-B-21:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg			33	_c	-
100-B-21:2_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	7,955	9.52E+06	33	288,432	No
100-B-21:2_Shallow	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	33	233,019	No
100-B-21:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	33	2,681	No
100-B-21:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	33	6,000°	No
100-B-21:2_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.37E+07	2.92E+08	33	8.86E+06	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\mathre{\math	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCi/g)	$\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	(m)	or pCi/g)	of Groundwater?
100-B-21:2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	6,454	_e	33	e	-
100-B-21:2_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	359,421	3.89E+08	33	1.18E+07	No
100-B-21:2_Shallow		Molybdenum	7439-98-7	μg/kg	1,390	563,885	33	17,087	No
100-B-21:2_Shallow		Nickel	7440-02-0	µg/kg	16,027	3.89E+08	33	1.18E+07	No
100-B-21:2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	21	3.89E+08	33	1.18E+07	No
100-B-21:2_Shallow_		Silver	7440-22-4	µg/kg	390	27,530	33	834	No
100-B-21:2_Shallow	non-Rad	Venadium	7440-62-2	µg/kg		_¢	33	_c	nah.
100-B-21:2_Shallow		Zinc	7440-66-6	µg/kg		3.89E+08	33	1.18E+07	No
100-B-21:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.075	_c	33	_*	-
100-B-21:3_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.91E+06	_c	9.2	_6	-
100-B-21:3_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	369	1.19E+07	9.2	1.29E+06	No
100-B-21:3_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,247	10,000	9.2	1,087	Yes
100-B-21:3_Shallow	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	9.2	4.23E+07	No
100-B-21:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	68	_c	9.2	_c	-
100-B-21:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	27	_c	9.2	^c	-
100-B-21:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	41	_c	9.2	_6	-
100-B-21:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	60	_¢	9.2		_
100-B-21:3 Shallow	non-Rad	Beryllium	7440-41-7	µg/kg		c	9.2		
100-B-21:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	22	e	9.2		_
100-B-21:3_Shallow	non-Rad	Boron	7440-42-8	µg/kg		348,488	9.2	37,879	
100-B-21:3_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg μg/kg	75	1,256	9.2	137	No No
100-B-21:3 Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10.795	1,230	9.2	_6	
100-B-21:3_Shallow	non-Rad	Chrysene	218-01-9		86		9.2		_
				μg/kg					
100-8-21:3_Shallow 100-8-21:3_Shallow	non-Rad	Cobalt	7440-48-4 7440-50-8	μg/kg	9,788 17,573	9.52E+06	9.2	1.03E+06	No
100-B-21:3_Shallow	non-Rad	Copper Fluoranthene	206-44-0	μg/kg μg/kg	120	7.69E+06 3.89E+08	9.2	835,828 4.23E+07	No No
100-B-21:3 Shallow	non-Rad	Iron	7439-89-6	μg/kg	2.51E+07	2.92E+08	9.2	3.18E+07	No No
100-B-21:3 Shallow	non-Rad	Lead	7439-92-1	µg/kg	6,049	2.322706	9.2	3.16570/	- No
100-B-21:3_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	388,389	3.89E+08	9.2	4.23E+07	No
100-B-21:3 Shallow	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	9.2	1.46E+06	No
100-B-21:3 Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	379	563,885	9.2	61,292	No
100-B-21:3_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,176	3.89E+08	9.2	4.23E+07	No
100-B-21:3 Shallow	non-Rad	Pyrene	129-00-0	µg/kg	83	3.89E+08	9.2	4.23E+07	No
100-B-21:3_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	66,201	_c	9.2	_c	-
100-B-21:3 Shallow	non-Rad	Zinc	7440-66-6	µg/kg	50,545	3.89E+08	9.2	4.23E+07	No
100-B-21:3 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.096	_°	9.2		-
100-B-21:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	_c	9.2		_
100-B-21:4 Shallow	non-Rad	Aluminum	7429-90-5	µg/kg			30		
100-B-21:4 Shallow	non-Rad	Antimony	7440-36-0	_		1.19£+07	30		
100-8-21:4_Shallow 100-B-21:4_Shallow	non-Rad	Arsenic	7440-38-0	µg/kg µg/kg		1.198+07	30	403,316 339	No Yes
100-B-21:4_Shallow	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	30	1.32E+07	No Yes
100-B-21:4 Shallow	non-Rad	Beryllium	7440-41-7	JAE/KE		3.832708	30	1.322407	NO
100-B-21:4_Shallow	non-Rad	Boron	7440-42-8	HE/KE		348,488	30	11,813	
100-B-21:4_Shallow	non-Rad	Cadmium	7440-42-8	µg/kg		1,256	30	11,813	No Yes
100-B-21:4 Shallow	non-Rad	Chromium	7440-47-3	HE/KE		1,236	30	43 _f	Tes
100-B-21:4_Shallow	non-Rad	Cobalt	7440-48-4	HE/KE	9,438	9.52E+06	30	322,653	No
100-B-21:4 Shallow	non-Rad	Copper	7440-50-8	HE/KE		7.69E+06	30	260,665	No No
100-B-21:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	HE/KE		6,000°	30	6,000°	No No
100-B-21:4_Shallow	non-Rad	Iron	7439-89-6	_		6,000° 2.92E+08	30	6,000° 9.91E+06	
100-B-21:4_Shallow	non-Rad	Lead	7439-89-6	HE/KE		2.922+08	30	9.91£+06	Yes
100-B-21:4_Shallow	non-Rad		7439-96-5	-			30		
100-8-21:4_Shallow 100-8-21:4_Shallow	non-Rad	Manganese Mercury	7439-96-5	HE/KE	363,889	3.89E+08 1.34E+07	30	1.32E+07	No No
100-8-21:4_Shallow 100-8-21:4_Shallow	non-Rad	Molybdenum	7439-97-6	µg/kg		1.34E+07 563.885	30	455,283 19.115	No No
100-8-21:4_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	-	3.89E+08	30	19,115 1.32E+07	No No
TOOL P. ST. A. SHELLOM	I HOTE-FORD	HICKE	/440-02-0	HE/kg	12,004	3.035700	30	L.SZETU/	NO

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte	-			Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu_{G}}{\mu_{G}} \tau_{G} \tau	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units			(m)	or pCl/g)	of Groundwater?
100-8-21:4_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	μg/kg			30		-
100-B-21:4_Shallow	non-Rad	Vanadium	7440-62-2	HE/KE	68,392	_c	30	_5	-
100-B-21:4_Shallow	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	30	1.32E+07	No
100-B-21:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g		_c	30		
100-B-21:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	_c	30		-
100-B-21:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	_c	30	t	-
100-B-21:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.049	_¢	30	_*	-
100-B-21:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	2,121	30	72	No
100-B-21:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	_6	30	_3	-
100-B-21:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	_6	30	_6	-
100-B-22:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	1.19E+07		126	c	-
100-B-22:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	1,080	1.19E+07	126	94,203	No
100-B-22:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	126	79	Yes
100-B-22:2_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	126	3.08E+06	No
100-B-22:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	1,700	_c	126	_c	~
100-B-22:2_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	9,230	348,488	126	2,759	Yes
100-B-22:2 Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	126	9.9	Yes
100-B-22:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	24,800	c	126	_6	-
100-B-22:2_Shallow_Focused	non-Rad	Cobait	7440-48-4	µg/kg	13,000	9.52E+06	126	75,362	No
100-B-22:2_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	126	60,884	Yes
100-B-22:2_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,600		126	_6	_
100-B-22:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	402	6,000°	126	6,000°	No
100-B-22:2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	4.43E+07	2.92E+08	126	2.32E+06	Yes
100-B-22:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	125,000	_*	126	c	***
100-B-22:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	479,000	3.89E+08	126	3.08E+06	No
100-B-22:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	319	1.34E+07	126	106,341	No
100-B-22:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	126	4,465	No
100-B-22:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	HE/kg		3.89E+08	126	3.08E+06	No
100-B-22:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	μg/kg		107,743	126	853	Yes
100-B-22:2_Shallow_Focused	non-Rad	Silver	7440-22-4	µg/kg		27,530	126	218	Yes
100-B-22:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg			126		-
100-B-22:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	HE/kg		3.89E+08	126	3.08E+06	No
100-B-23_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg		84,728	1,238	68	Yes
100-B-23_Shallow_Focused	non-Rad	Aluminum	7429-90-5	HE/KE		-6			
100-B-23_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg		4.27E+07 1.19E+07	1,238	34,477 9,612	No No
100-B-23_Shallow_Focused	non-Rad	Antimony	7440-36-0 11097-69-1	µg/kg		1.196+0/	1,238	9,612	140
100-B-23_Shallow_Focused		Aroclor-1254		-					
100-B-23_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg		_c	1,238		
100-B-23_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	1,238	8.1	Yes No
100-B-23_Shallow_Focused	non-Rad	Barium Benzo(a)anthracene	7440-39-3 56-55-3	HE/KE		3.89E+08	1,238	314,267	No
100-B-23_Shallow_Focused				µg/kg					
100-B-23_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	HE/KE		e	1,238		-
100-B-23_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		_*	1,238		-
100-B-23_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		c	1,238		
100-8-23_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		_*	1,238		-
100-B-23_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	210	_c	1,238	e	-
100-B-23_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	14,100	348,468	1,238	282	Yes
100-B-23_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	µg/kg		60,438	1,238	49	No
100-B-23_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	1,238	1.0	Yes
100-B-23_Shallow_Focused	non-Rad	Carbazole	86-74-8	μg/kg		537	1,238	0.43	Yes
100-B-23_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		¢	1,238		-
100-B-23_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	1,400	_c	1,238	_6	
100-B-23_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	1,238	7,690	Yes
100-B-23_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	1,238	6,212	Yes
100-B-23_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	50	_*	1,238	_c	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu \text{d} \pi}{\pi} \text{d} \text{m} \sigma \text{T}^{\text{CC}} \cdots \]	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-23 Shallow Focused	non-Rad	Dibenzofuran	132-64-9	µg/kg		3,353	1,238	2.7	Yes
100-B-23 Shallow Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	31	88,471	1,238	71	No
100-B-23 Shallow Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	1,600	3.89E+08	1,238	314,267	No
100-B-23_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	390	97,154	1,238	78	Yes
100-B-23_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	83	°	1,238	_c	-
100-B-23_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.07E+07	2.92E+08	1,238	236,250	Yes
100-B-23_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	73,800	-	1,238	°	-
100-B-23_Shallow_Focused	non-Rad	Lithium	7439-93-2	µg/kg	8,600	_*	1,238	c	_
100-B-23_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	352,000	3.89E+08	1,238	314,267	Yes
100-B-23_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	8,200	1.34E+07	1,238	10,851	No
100-B-23_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	710	563,885	1,238	456	Yes
100-B-23_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	1,238	314,267	No
100-B-23_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	1,200	3.89E+08	1,238	314,267	No
100-B-23_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	570	9,013	1,238	7.3	Yes
100-B-23_Shallow_Focused	non-Rad	Strontium	7440-24-6	μg/kg	25,100	3.89E+08	1,238	314,267	No
100-B-23_Shallow_Focused	non-Rad	Tin	7440-31-5	HE/kg		_e	1,238	¢	_
100-B-23_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	173,000	1.00E+06 ^d	1,238	1.00E+06 ^d	No
100-B-23_Shallow_Focused	non-Rad	Vanadium	7440-62-2	HE/KE	42,900	-¢	1,238	_c	-
100-B-23_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	1.31E+06	3.89E+08	1,238	314,267	Yes
100-B-25_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	8.14E+06	_c	48	_e	
100-B-25 Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,556	10,000	48	208	Yes
100-B-25_Shallow	non-Rad	Barium	7440-39-3	µg/kg	81,242	3.89E+08	48	8.10E+06	No
100-B-25_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	246	c	48	c	_
100-B-25_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,005	348,488	48	7,260	No
100-B-25 Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	97	1,256	48	26	Yes
100-B-25_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	15,581	_c	48	¢	-
100-B-25 Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,179	9.52E+06	48	198,297	No
100-B-25_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,196	7.69E+06	48	160,200	No
100-B-25_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	164	6,000°	48	6,000°	No
100-B-25 Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.69E+07	2.92E+08	48	6.09E+06	Yes
100-B-25_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,006	_c	48	_c	-
100-B-25_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	281,444	3.89E+08	48	8.10E+06	No
100-B-25_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	44	1.34E+07	48	279,810	No
100-B-25_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	279	563,885	48	11,748	No
100-B-25_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	16,459	3.89E+08	48	8.10E+06	No
100-B-25_Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg	2,156	_f	48	_'	_
100-B-25_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	37,033	_e	48	_•	-
100-B-25_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	35,105	3.89E+08	48	8.10E+06	No
100-B-25_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.55	_c	48	_e	
100-B-25_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.1	c	48	_c	
100-8-25_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.5	_c	48	_c	-
100-B-25_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.40	2,121	48	44	No
100-B-25_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.78	_6	48		-
100-B-25_Shallow	Rad	Uranium-238	U-238	pCi/g	0.72	_6	48	_1	-
100-B-26 Shallow Focused	non-Rad	Aluminum	7429-90-5	µg/kg		_6	32	_¢	-
100-8-26 Shallow Focused	non-Rad	Arsenic	7440-38-2		5,200	10,000	32	315	Yes
100-B-26_Shallow_Focused 100-B-26_Shallow_Focused	non-Rad	Barium	7440-38-2	µg/kg µg/kg	84,700	3.89E+08	32	1.23E+07	No Yes
100-B-26_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		3.892+08	32	1.255407	NO
100-B-26 Shallow Focused	non-Rad	Boron	7440-42-8	_		348.488	32	10,993	No
100-B-26_Shallow_Focused		Cadmium	7440-42-8	μg/kg μg/kg		1,256	32	40	Yes
100-B-26_Shallow_Focused	non-Rad	Chromium	7440-43-9	HE/KE		1,236	32	40	Tes
100-B-26_Shallow_Focused	non-Rad	Cobalt	7440-48-4	-		9.52E+06	32	300,261	No
100-B-26_Shallow_Focused	non-Rad	Copper	7440-48-4	µg/kg µg/kg		7.69E+06	32	242,575	No No
100-B-26_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6.000°	32	6,000°	No
100-8-26_Shallow_Focused	non-Rad		7439-89-6	µg/kg		2.92E+08	32	9.22E+06	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Andre Nove	CAS No.	ll at	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu_{B}}{k_{P}} \cdot m \text{ or } \frac{\mu_{C}}{m} \cdot \cdot m \)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-26 Shallow Focused	non-Rad	Analyte Name	7439-92-1	µg/kg	17,600	(kg g)	(m) 32	or pCI/g)	or Groundwater?
100-B-26_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	32	1.23E+07	No
100-B-26 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	32	423,686	No No
100-B-26_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	32	17,788	No
100-B-26_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	16,500	3.89E+08	32	1.23E+07	No
100-B-26_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg		9,013	32	284	Yes
100-B-26_Shallow_Focused	non-Rad	Total_U_isotopes	Total U_Isotopes	µg/kg		_f	32	_f	_
100-B-26 Shallow Focused	non-Rad	Vanadium	7440-62-2	µg/kg	33,700	_c	32	c	-
100-B-26 Shallow Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	32	1.23E+07	No
100-B-26_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.1	-	32	_¢	_
100-B-26_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.4		32	_3	-
100-B-26_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2		32		-
100-B-27_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	1.23E+07	_c	47	_:	
100-B-27_Deep	non-Rad	Antimony	7440-36-0	-	464	1.19E+07	47	252,608	No No
100-B-27_Deep 100-B-27 Deep	non-Rad	Arsenic	7440-36-0	µg/kg µg/kg	4,466	1.19£+07	47	252,608	Yes
100-B-27_Deep 100-B-27 Deep	non-Rad	Barium	7440-38-2	µg/kg	149,745	3.89E+08	47	8.26E+06	No.
100-B-27_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	436	c	47	5.202.100	-
100-B-27 Deep	non-Rad	Boron	7440-42-8	µg/kg	1,099	348,488	47	7,399	No
100-B-27 Deep	non-Rad	Cadmium	7440-43-9	µg/kg	102	1,256	47	27	Yes
100-B-27_Deep	non-Rad	Chromium	7440-47-3	µg/kg	13,667		47	c	_
100-B-27_Deep	non-Rad	Cobalt	7440-48-4	µg/kg	14,425	9,52E+06	47	202,086	No
100-B-27 Deep	non-Rad	Copper	7440-50-8	µg/kg	28,589	7.69E+06	47	163,262	No
100-B-27_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	215	6,000°	47	6,000°	No
100-8-27_Deep	non-Rad	iron	7439-89-6	µg/kg	3.61E+07	2.92E+08	47	6.21E+06	Yes
100-B-27_Deep	non-Rad	Lead	7439-92-1	µg/kg	7,359	2.52£+06	47	6.211.700	163
100-B-27_Deep	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	47	8.26E+06	No
100-8-27 Deep	non-Rad	Molybdenum	7439-98-7	μg/kg	471	563,885	47	11,972	No
100-B-27_Deep	non-Rad	Nickel	7440-02-0	µg/kg	15,089	3.89E+08	47	8.26E+06	No
100-B-27 Deep	non-Rad	Silver	7440-22-4	µg/kg	208	27,530	47	584	No
100-B-27_Deep	non-Rad	Vanadium	7440-62-2	µg/kg		_c	47	_c	_
100-B-27_Deep	non-Rad	Zinc	7440-66-6	µg/kg	69,869	3.89E+08	47	8.26E+06	No
100-B-28_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg		_c	25	_c	-
100-8-28_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	4,446	10,000	25	402	Yes
100-B-28_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	99,189	3.89E+08	25	1.56E+07	No
100-B-28 Shallow 1	non-Rad	Beryllium	7440-41-7	μg/kg		_c	25	_¢	_
100-B-28_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	5,012	348.488	25	13.996	No
100-B-28 Shallow 1	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	25	50	Yes
100-B-28_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg		_e	25	c	
100-B-28 Shallow 1	non-Rad	Cobalt	7440-48-4	µg/kg	10,094	9.52E+06	25	382,259	No
100-B-28 Shallow 1	non-Rad	Copper	7440-50-8	µg/kg	21,585	7.69E+06	25	308,820	No
100-B-28_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	330	6.000°	25	6,000°	No
100-B-28 Shallow 1	non-Rad	iron	7439-89-6	μg/kg	2.68E+07	2.92E+08	25	1.17E+07	Yes
100-B-28_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg		c	25	_6	-
100-B-28_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	401,359	3.89E+08	25	1.56E+07	No
100-B-28 Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	76	1.34E+07	25	539,392	No
100-B-28_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	25	22,646	No
100-B-28_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	13,397	3.89E+08	25	1.56E+07	No
100-B-28_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	64,955	_c	25	c	-
100-B-28_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg	65,498	3.89E+08	25	1.56E+07	No
100-B-28_Shallow_3	non-Rad	Aluminum	7429-90-5	μg/kg	1,06E+07	_c	19		_
100-B-28_Shallow_3	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	19	518	Yes
100-B-28_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	85,885	3.89E+08	19	2.02E+07	No
100-B-28_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	357	c	19	_c	-
100-B-28_Shallow_3	non-Rad	Boron	7440-42-8	μg/kg	2,119	348,488	19	18,056	No
100-B-28_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	507	1,256	19	65	Yes
100-B-28_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	17,013		19	_¢	_

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GM Flow (µg/kg or pC/g)	is EPC > Soil Screening Level Protective of Groundwater?
100-8-28_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	19	493,174	No
100-8-28_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	19	398,426	No
100-B-28_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000 ^e	19	6,000°	No
100-B-28_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	19	1.52E+07	Yes
100-B-28_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	7,178	2.522+00	19		-
	_	The state of the s	7439-96-5	_	_	3.89E+08	19	2.02E+07	No
100-B-28_Shallow_3	non-Rad	Manganese	7439-97-6	μg/kg μg/kg		1.34E+07	19	695,900	No
100-B-28_Shallow_3 100-B-28_Shallow_3	non-Rad	Mercury Molybdenum	7439-98-7	µg/kg	370	563,885	19	29,217	No
100-B-28_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	17,186	3.89E+08	19	2.02E+07	No
100-B-28 Shallow 3	non-Rad	Vanadium	7440-62-2	µg/kg	64,702		19		-
100-B-28 Shallow 3	non-Rad	Zinc	7440-66-6	µg/kg	572,012	3.89E+08	19	2.02E+07	No
100-B-28_Shallow_5	non-Rad	Aluminum	7429-90-5	µg/kg		3.652406	22	-6	-
			7440-36-0			1.19E+07	22	540,810	No
100-B-28_Shallow_5	non-Rad	Antimony Arsenic	7440-38-2	µg/kg	4,877	10,000	22	455	Yes
100-B-28_Shallow_5	non-Rad	Arsenic Barium	7440-38-2	μg/kg μg/kg	73,328	3.89E+08	22	1.77E+07	No No
100-B-28 Shallow 5	non-Rad	Beryllium Beryllium	7440-39-3	µg/kg		3.89£+08	22	1.772407	NO
100-B-28_Shallow_5	non-Rad	-	7440-41-7	_	1,868	348,488	22	15,840	No
100-B-28_Shallow_5	non-Rad	Boron Cadmium	7440-42-8	μg/kg		1,256	22	57	Yes
100-B-28_Shallow_5	non-Rad	Chromium	7440-47-3	μg/kg μg/kg		1,230	22	c	- Tes
100-B-28_Shallow_5			7440-48-4	_		9.52E+06	22	432,648	No
100-B-28_Shallow_5	non-Rad	Cobalt	7440-48-4	μg/kg		7.69E+06	22	349,528	No
100-B-28_Shallow_5 100-B-28_Shallow_5	non-Rad	Copper Hexavalent Chromium	18540-29-9	μg/kg μg/kg		6,000°	22	6,000°	No
			7439-89-6			2.92E+08	22	1.33E+07	Yes
100-B-28_Shallow_5	non-Rad	Iron	7439-89-6	μg/kg		2.322+08	22	1.332407	Tes
100-B-28_Shallow_5	_	Lead		μg/kg					
100-B-28_Shallow_5	non-Rad	Manganese	7439-96-5	μg/kg		3.89E+08 1.34E+07	22	1.77E+07 610.494	No No
100-B-28_Shallow_5	non-Rad	Mercury	7439-97-6 7439-98-7	μg/kg		1.34E+07 563.885	22	25,631	No.
100-B-28_Shallow_5 100-B-28_Shallow_5	non-Rad	Molybdenum Nickel	7440-02-0	μg/kg μg/kg		3.89E+08	22	1.77E+07	No
100-B-28_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg		5.652.400	22		-
	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	22	1.77E+07	No
100-B-28_Shallow_5 100-B-28_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg		3.05[+00	151	- C	-
	non-Rad	Anthracene	120-12-7			4.27E+07	151	283,372	No
100-B-28_Shallow_Focused	non-Rad		7440-36-0	μg/kg μg/kg		1.19£+07	151	79,003	No
100-B-28_Shallow_Focused	non-Rad	Antimony Arsenic	7440-38-2	µg/kg		10.000	151	66	Yes
100-B-28_Shallow_Focused 100-B-28_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	151	2.58£+06	No
100-B-28_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg		_c	151		-
100-B-28_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg			151		_
		The state of the s		_			151	-	-
100-B-28_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg			151		-
100-B-28_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg		_t			
100-B-28_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg			151	_c	-
100-B-28_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg		348,488	151	2,314	No
100-B-28_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	151	8.3	Yes
100-B-28_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		_*	151	c	-
100-B-28_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg		_c	151	_6	-
100-B-28_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	151	63,202	No
100-B-28_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	151	51,060	No
100-B-28_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	μg/kg		_¢	151	_¢	
100-B-28_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	151	2.58E+06	No
100-B-28_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg		97,154	151	645	No
100-B-28_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	151	6,000°	No
100-B-28_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	48	-6	151	_c	-
100-B-28_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	3.69E+07	2.92E+08	151	1.94E+06	Yes
100-B-28_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg		_c	151	76	-
100-8-28_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	151	2.58E+06	No
100-8-28 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	151	89,182	No
100-B-28_Shallow_Focused	non-Rad		7439-98-7	µg/kg		563,885	151	3,744	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC> Soil Screening Level Protective of Groundwater?
100-B-28 Shallow Focused	non-Rad	Nickel	7440-02-0	µg/kg	17,200	3.89E+08	151	2.58E+06	No
100-B-28 Shallow Focused	non-Rad	Pyrene	129-00-0	µg/kg	34	3.89E+08	151	2.58E+06	No
100-B-28 Shallow Focused	non-Rad	Vanadium	7440-62-2	µg/kg	106,000	_¢	151	_6	-
100-B-28_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	81,700	3.89E+08	151	2.58E+06	No
100-B-31 Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.24E+06	_c	15	_¢	-
100-B-31 Shallow	non-Rad	Antimony	7440-36-0	µg/kg	1,096	1.19E+07	15	787,936	No
100-B-31 Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	5,007	10.000	15	662	Yes
100-B-31_Shallow	non-Rad	Barium	7440-39-3	µg/kg	66,123	3.89E+08	15	2.58E+07	No
100-B-31_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	263	_c	15	_c	
100-B-31_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,934	348.488	15	23.079	No
100-B-31_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	159	1,256	15	83	Yes
100-B-31 Shallow	non-Rad	Chromium	7440-47-3	µg/kg	17,815	- 6	15	_6	-
100-B-31_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	8,635	9.52E+06	15	630,348	No
	non-Rad		7440-50-8	µg/kg	30,009	7.69E+06	15	509,246	No
100-B-31_Shallow 100-B-31_Shallow	non-Rad	Copper Hexavalent Chromium	18540-29-9	HR/kg	173	6,000°	15	6,000°	No
		The state of the s	7439-89-6	μg/kg	2.37E+07	2.92E+08	15	1.94£+07	Yes
100-B-31_Shallow 100-B-31_Shallow	non-Rad	Iron Lead	7439-92-1	µg/kg		2.322408	15	_ °	-
			_			3.89E+08	15	2.58E+07	No
100-B-31_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	376,677	3.89E+08 1.34E+07	15	889,461	No
100-B-31_Shallow	non-Rad	Mercury	7439-97-6 7439-98-7	μg/kg		563,885	15	37,343	No
100-B-31_Shallow	non-Rad	Molybdenum Nickel	7440-02-0	μg/kg μg/kg		3.89E+08	15	2.58E+07	No
100-B-31_Shallow	non-Rad	Selenium	7782-49-2	µg/kg		9,013	15	597	Yes
100-B-31_Shallow 100-B-31_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg		5,013	15	_6	-
	non-Rad		7440-66-6	µg/kg	63,292	3.89E+08	15	2.58E+07	No
100-B-31_Shallow		Zinc	10045-97-3	pCi/g	0.52	3.892+08	2.0	2.362+07	_
100-B-32_Shallow_Focused	Rad	Cesium-137		_			4.2		-
100-B-33_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg		_ c			
100-B-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,550	10,000	4.2	2,381	Yes
100-B-33_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	4.2	9.26E+07	No
100-B-33_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg		_*			
100-B-33_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg		348,488	4.2	82,973	No
100-B-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	133	1,256	4.2	299	No
100-B-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		_6			
100-B-33_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,710	9.52E+06	4.2	2.27E+06	No
100-B-33_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	4.2	1.83E+06 6.96E+07	No No
100-8-33_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08			No -
100-B-33_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg			4.2		
100-B-33_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg		3.89E+08	4.2	9.26E+07	No
100-B-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	4.2	3.20E+06	No No
100-B-33_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	4.2	9.26E+07 2,146	No No
100-B-33_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg		9,013	4.2	2,146	140
100-B-33_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotope:	_	-	_!			
100-B-33_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		t	4.2	°	
100-B-33_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	4.2	9.26E+07	No
100-B-33_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.16	_c	4.2	_6	-
100-B-33_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.13	_*	4.2	_c	_
100-B-33_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	_4	4.2	_8	_
100-B-33_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.49	_8	4.2		-
100-B-35:1_Deep_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	1.39E+07	_c	22		-
100-B-35:1_Deep_Focused	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	22	535,938	No
	non-Rad	Aroclor-1260	11096-82-5	µg/kg		1.195+07	22	333,936	- 10
100-B-35:1_Deep_Focused							22	450	Yes
100-B-35:1_Deep_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	9,600 81,600	10,000 3.89E+08	22	1.75E+07	No
100-B-35:1_Deep_Focused	non-Rad	Barium	7440-39-3 7440-41-7	µg/kg		3.89E+08	22	1.752+07	
100-B-35:1_Deep_Focused		Beryllium		µg/kg			22	15,698	No
100-B-35:1_Deep_Focused	non-Rad	Boron Cadmium	7440-42-8 7440-43-9	μg/kg μg/kg		348,488 1,256	22	15,698	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/1000 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Situ Length in Direction of GM Flow (µg/kg	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-35:1_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg			(m) 22	or pCl/g)	or droundwaterr
100-B-35:1_Deep_Focused	non-Rad	Cobalt	7440-48-4	HE/KE	11,900	9.52E+06	22	428,751	No
100-8-35:1_Deep_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	22	346,379	No
100-B-35:1_Deep_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	22	1.32E+07	Yes
100-B-35:1_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg		2.522.00	22	_6	-
100-B-35:1_Deep_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	22	1.75E+07	No
100-B-35:1 Deep_Focused	non-Rad	Nickel	7440-02-0	µg/kg	17,500	3.89E+08	22	1.75E+07	No
100-B-35:1_Deep_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg		2.00E+06 ^d	22	2.00E+06 ^d	No
100-B-35:1_Deep_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg		2.00E+06 ^d	22	2.00E+06 ^d	No
100-B-35:1_Deep_Focused	non-Rad	Vanadium	7440-62-2	µg/kg		_ (22	2.000,000	_
100-B-35:1_Deep_Focused	non-Rad	Zinc	7440-66-6	µg/kg	59,900	3.89E+08	22	1.75E+07	No
100-B-35:1 Shallow	non-Rad	Aluminum	7429-90-5	µg/kg		3.05[706	122	2.755-07	
100-B-35:1 Shallow	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	122	97,523	No
100-B-35:1_Shallow	non-Rad	Aroclor-1254	11097-69-1	HE/KE		1.196+07	122	97,525	NO -
100-B-35:1_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg		_;	122		-
	non-Rad		7440-38-2		5,148		122	82	
100-B-35:1_Shallow 100-B-35:1_Shallow	non-Rad	Arsenic	7440-39-3	μg/kg		10,000 3.89E+08	122	3.19E+06	Yes No
100-B-35:1_Shallow	non-Rad	Barium Benzo(a)anthracene	56-55-3	με/kg με/kg		5.69E+06	122	5.192406	NO -
100-B-35:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8				122		
				µE/kg		-			
100-B-35:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	hft/kf			122		-
100-B-35:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_c	122	c	-
100-8-35:1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg		~°	122	⊥°	-
100-8-35:1_Shallow	non-Rad	Boron	7440-42-8	μg/kg		348,488	122	2,856	No
100-B-35:1_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg		1,256	122	10	Yes
100-B-35:1_Shallow	non-Red	Chromium	7440-47-3	µg/kg		_¢	122	_6	-
100-B-35:1_Shallow	non-Rad	Chrysene	218-01-9	μg/kg		_c	122	4-C	-
100-8-35:1_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	122	78,019	No
100-B-35:1_Shallow	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	122	63,030	No
100-B-35:1_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	122	3.19E+06	No
100-B-35:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		_°	122	²	-
100-B-35:1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.49E+07	2.92E+08	122	2.40E+06	Yes
100-B-35:1_Shallow	non-Rad	Lead	7439-92-1	µg/kg		_c	122	:	-
100-B-35:1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	122	3.19£+06	No
100-B-35:1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	122	110,089	No
100-B-35:1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885 3.89E+08	122	4,622	No
100-B-35:1_Shallow 100-B-35:1_Shallow	non-Rad	Nickel Pyrene	7440-02-0 129-00-0	μg/kg		3.89E+08	122	3.19E+06 3.19E+06	No No
100-B-35:1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	μg/kg μg/kg		2.00E+06 ^d	122	2.00E+06 ^d	No
100-B-35:1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	11,859		122		No
	non-Rad	Vanadium	7440-62-2	_		2.00E+06 ^d	122	2.00E+06 ^d	
100-B-35:1_Shallow	_			µg/kg		_*			-
100-B-35:1_Shallow	non-Rad	Zinc	7440-66-6 7429-90-5	µg/kg	62,837 5,35E+06	3.89E+08	122 16	3.19E+06	No
100-B-35:2_Shallow_Focused				µg/kg		_6		_6	-
100-B-35:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ue/ke		1.19E+07	16	748,291	No
100-B-35:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg		_t	16	*	**
100-B-35:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,620	10,000	16	629	Yes
100-B-35:2_Shallow_Focused	non-Rad	Barium Benzo(a)anthracene	7440-39-3 56-55-3	µg/kg		3.89E+08 _c	16 16	2.45E+07	No
100-B-35:2_Shallow_Focused			_	µg/kg					
100-B-35:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ME/KE	77	_*	16	3	-
100-B-35:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		c	16	_6	-
100-8-35:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_*	16		
100-8-35:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	HE/KE	318		16	_c	-
100-B-35:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,500	_c	16	_°	_
100-B-35:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	54	_e	16		-
100-B-35:2_Shallow_Focused	_		7440-48-4	ug/kg	7,460	9.52E+06	16	598,633	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\begin{small} \text{Mg} & \cdot \text{or } \text{pCL} & \cdot \text{m} \end{small} \)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		\Kg g /	(m)	or pCi/g)	of Groundwater?
100-B-35:2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	16 .	483,624	No
100-B-35:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	HE/KE		_°	16	_6	
100-B-35:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	63	3.89E+08	16	2.45E+07	No
100-8-35:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	63		16		-
100-B-35:2_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg	1.58E+07	2.92E+08	16	1.84E+07	No
100-B-35:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	12,700		16	c	
100-B-35:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	234,000	3.89E+08	16	2.45E+07	No
100-B-35:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	9.3	1.34E+07	16	844,708	No
100-B-35:2_Shallow_Focused 100-B-35:2_Shallow_Focused	non-Rad	Nickel	7440-02-0 129-00-0	µg/kg	9,660	3.89E+08 3.89E+08	16 16	2.45E+07 2.45E+07	No
100-B-35:2_Shallow_Focused	non-Rad	Pyrene Silver	7440-22-4	μg/kg	62 569	3.89E+08 27,530	16	2.45E+07 1,731	No No
100-B-35:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	μg/kg μg/kg	3,580	27,530 2.00E+06 ⁴	16	2,00E+06 ^d	No No
100-B-35:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	HE/KE			16		No
	non-Rad					2.00E+06 ^d		2.00E+06 ⁶	
100-B-35:2_Shallow_Focused		Vanadium	7440-62-2	HE/KE	48,400		16		-
100-B-35:2 Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	158,000	3.89E+08	16	2.45E+07	No
100-B-5_Deep	non-Rad	Chromium	7440-47-3	µg/kg	297,000		28	-	
100-B-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,940	6,000°	28	6,000°	No
100-B-5_Deep	non-Rad	Lead	7439-92-1	µg/kg	8,200	_*	28	c	-
100-B-5_Deep	non-Rad	Mercury	7439-97-6	µg/kg	5,040	1.34E+07	28	486,625	No
100-B-5_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	HE/KE	2,230	_'	28		-
100-B-5_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.97		28	-c	-
100-B-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	_¢	28	_ 4	-
100-B-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.5	_e	28	_e	-
100-B-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	15	_ c	28	_6	-
100-B-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	_c	28	_ c	-
100-B-5_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.26	_c	28	_ 6	_
100-B-5 Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.4		28	_ c	-
100-B-5 Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.9	2,121	28	77	No
100-B-5 Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.79	8	28	_6	-
100-B-5 Deep	Rad	Uranium-238	U-238	pCi/g	0.75	_6	28		_
100-B-5 Shallow	non-Rad	Chromium	7440-47-3	HE/KE	12,803	_c	52		
100-B-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,958		52		-
100-B-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	17	1.34E+07	52	257,296	No
100-B-5_Shallow	non-Rad	Total U Isotopes	Total_U_Isotopes	µg/kg		1.346+07	52	251,250	NO -
100-B-5_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.11		52	-	-
100-B-5_Shallow	Rad	Plutonium-239/240		_	0.35				
	Rad		PU-239/240	pCi/g			52		
100-B-5_Shallow	_	Uranium-233/234	U-233/234	pCi/g	0.62	3	52	3	-
100-B-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.088	_3	52	_4	-
100-B-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	_8	52	_3	_
100-B-8:1_Deep	non-Rad	Chromium	7440-47-3	µg/kg	55,800	_*	29	_6	-
100-B-8:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	483	6,000°	29	6,000°	No
100-B-8:1_Deep	non-Rad	Lead	7439-92-1	µg/kg	7,764	_ 0	29	_c	69
100-B-8:1_Deep	non-Rad	Mercury	7439-97-6	µg/kg	237	1.34E+07	29	464,736	No
100-B-8:1_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,774		29		
100-B-8:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.44	_e	29	-c	-
100-B-8:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	9.6	_¢	29	_c	-
100-B-8:1_Deep	Radi	Cobalt-60	10198-40-0	pCi/g	0.16	_6	29	_6	-
100-B-8:1 Deep	Rad	Europium-152	14683-23-9	pCi/g	2.7	_¢	29	-6	-
100-B-8:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.16	_ c	29	_c	_
100-B-8:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.75	_ (29	_c	
100-B-8:1 Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	2,121	29	73	No
	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	2,121	29	/3 6	No -
100-8-8:1 Deep									

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu_g}{k_a} \cdot m \cdot \frac{\sigma}{a} \cdot m\)	Site Width in Direction of Groundwater Flow		is EPC > Soil Screening Level Protective
Waste Site/Decision Unit 100-B-8:1_Shallow	Group	Analyte Name	CAS No. 7440-47-3	Units		(-0 0 /	(m)	or pCl/g)	of Groundwater?
	non-Rad	Chromium		µg/kg			49	¢	-
100-8-8:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg		6,000°	49	6,000°	No
100-8-8:1_Shallow	non-Rad	Lead	7439-92-1	µg/kg		"	49		
100-8-8:1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	49	276,355	No
100-B-8:1_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg			49		-
100-B-8:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	_•	49	_5	-
100-B-8:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.29	_¢	49	c	-
100-B-8:1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g		_'	49	- "	-
100-B-8:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	2,121	49	44	No
100-B-8:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	_1	49		-
100-B-8:1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g			49	_6	-
100-B-8:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	_6	49	6	-
100-B-8:2_Deep	non-Rad	Chromium	7440-47-3	µg/kg	65,806		19	_*	
100-B-8:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	19	6,000"	No
100-B-8:2_Deep	non-Rad	Lead	7439-92-1	µg/kg	4,278		19	_6	-
100-B-8:2_Deep	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	19	699,524	No
100-8-8:2_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,590		19	_f	-
100-B-8:2_Deep	Red	Americium-241	14596-10-2	pCi/g		c	19	-c	_
100-B-8:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	13	_6	19	_c	-
100-B-8:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.56	_6	19	c	-
100-B-8:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.1	_c	19	_6	-
100-B-8:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.99	_6	19	_¢	
100-B-8:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.76		19	_6	-
100-B-8:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	2,121	19	110	No
100-B-8:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	_6	19	1	-
100-B-8:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.53	_5	19	J	_
100-B-8:2_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	16,449	_6	31	_c	-
100-B-8:2 Shallow 1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	555	6,000°	31	6,000°	No
100-B-8:2 Shallow 1	non-Rad	Lead	7439-92-1	µg/kg	5,532	- E	31		_
100-B-8:2 Shallow 1	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	31	434,656	No
100-B-8:2_Shallow_1	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_1	31		-
100-B-8:2_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g		_°	31	c	_
100-B-8:2 Shallow 1	Rad	Cesium-137	10045-97-3	pCi/g	0.62	_c	31	_¢	-
100-8-8:2 Shallow 1	Red	Cobalt-60	10198-40-0	pCi/g	0.095	-¢	31	_6	_
100-8-8:2 Shallow 1	Rad	Europium-152	14683-23-9	pCi/g	0.32		31		_
100-B-8:2_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	0.38	_c	31		-
100-B-8:2_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.36		31		-
100-B-8:2 Shallow 1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	2,121	31	69	No
100-B-8:2 Shallow 1	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	2,121	31	-4	NO
100-B-8:2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.56	_3	31		-
100-8-8:2_Shallow_3	non-Rad	Chromium	7440-47-3	PCI/E			50		
100-8-8:2_Shallow_3	non-Rad	Lead	7439-92-1				50		
	non-Rad			µg/kg					-
100-B-8:2_Shallow_3		Total_U_Isotopes	Total_U_isotopes	HE/KE	1,729	-1	50		-
100-B-8:2_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g		_¢	50		-
100-B-8:2_Shallow_3	Rad	Europium-152	14683-23-9	pCi/g	0.56		50		-
100-B-8:2_Shallow_3	Rad	Nickel-63	13981-37-8	pCi/g	3.6	-	50	_c	-
100-B-8:2_Shallow_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g		2,121	50	43	No
100-B-8:2_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.58		50	_1	-
100-B-8:2_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.58	_6	50	_6	-
100-C-3_Shallow	non-Rad	Acetone	67-64-1	µg/kg	3.2	17,372	8.6	2,020	No
100-C-3_Shallow	non-Rad	Arsenic Barium	7440-38-2 7440-39-3	µg/kg	2,500 62,500	10,000 3.89E+08	8.6 8.6	1,163 4.52E+07	Yes No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu_B}{m} \) m or \(\frac{\mu_C L}{m} \)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCl/g)	$\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	(m)	or pCi/g)	of Groundwater?
100-C-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	269	_¢	8.6	_6	-
100-C-3_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	278	1,256	8.6	146	Yes
100-C-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,500	_t	8.6	_6	
100-C-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,000	_ c	8.6	-6	
100-C-3_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	16	14	8.6	1.6	Yes
100-C-3_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	487	9,013	8.6	1,048	No
100-C-3_Shallow	non-Rad	Silver	7440-22-4	µg/kg	112	27,530	8.6	3,201	No
100-C-3_Shallow	non-Rad	Toluene	108-88-3	μg/kg		4,437	8.6	516	No
100-C-3_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_1	8.6		-
100-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	_c	8.6	_6	-
100-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.71		8.6	_6	-
100-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	3	8,6	6	-
100-C-7_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg	7.17E+06	c	36	_6	_
100-C-7_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,692	10,000	36	280	Yes
100-C-7_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	57,480	3.89E+08	36	1.09E+07	No
100-C-7_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	288	-6	36	_c	du du
100-C-7_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	1,157	348,488	36	9,762	No
100-C-7_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg	92	1,256	36	35	Yes
100-C-7_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	9,051	_6	36	"	-
100-C-7_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	7,957	9.52E+06	36	266,618	No
100-C-7_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	36	215,396	No
100-C-7_Shallow_1		Iron	7439-89-6	µg/kg		2.92E+08	36	8.19E+06	Yes
100-C-7_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg		6	36	_6	-
100-C-7_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	331,459	3.89E+08	36	1.09E+07	No
100-C-7_Shallow_1		Mercury	7439-97-6	μg/kg		1.34E+07	36	376,215	No
100-C-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	HE/KE		563,885	36	15,795	No
100-C-7_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	36	1.09E+07	No
100-C-7_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg		_c	36		-
100-C-7_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg		3.89E+08	36	1.09E+07	No
100-C-7_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg		_6	36	(
100-C-7_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	36	279	Yes
100-C-7_Shallow_2 100-C-7_Shallow_2	non-Rad	Barium	7440-39-3 7440-41-7	µg/kg		3.89E+08	36 36	1.08E+07	No
		Beryllium		µg/kg					
100-C-7_Shallow_2 100-C-7_Shallow_2	non-Rad	Cadmium	7440-43-9 7440-47-3	μg/kg		1,256	36 36	35	Yes
				μg/kg					
100-C-7_Shallow_2 100-C-7_Shallow_2	non-Rad	Cobalt	7440-48-4 7440-50-8	μg/kg		9.52E+06 7.69E+06	36 36	265,133 214,196	No No
100-C-7_Shallow_2	non-Rad	Copper Iron	7439-89-6	µg/kg µg/kg		2.92E+08	36	8.15E+06	Yes
100-C-7_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg			36	6.252100	_
100-C-7 Shallow 2	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	36	1.08E+07	No
100-C-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	36	15,707	No
100-C-7 Shallow 2	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	36	1.08E+07	No
100-C-7_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	-/	c	36	_6	-
100-C-7 Shallow 2	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	36	1.08E+07	No
100-C-7:1_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg		- c	55		-
100-C-7:1 Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	55	181	Yes
100-C-7:1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	55	7.02E+06	No
100-C-7:1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg		_c	55	_c	-
100-C-7:1_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg		348,488	55	6,290	No
100-C-7:1_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg		1,256	55	23	Yes
100-C-7:1_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg		_c	55		-
100-C-7:1_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	55	171,810	No
100-C-7:1_Shallow_1	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	55	138,802	No
100-C-7:1_Shallow_1	non-Rad	Iron	7439-89-6	μg/kg		2.92E+08	55	5.28E+06	Yes
100-C-7:1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg		c	55	_¢	_
100-C-7:1_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	343,222	3.89E+08	55	7.02E+06	No

Table 7-1, Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu g}{ka} \cdots \text{ or } \frac{\mu ci}{m} \cdots \]	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-C-7:1_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	55	242,434	No
100-C-7:1 Shallow 1	non-Rad	Molybdenum	7439-98-7	µg/kg		563.885	55	10.178	No
100-C-7:1_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	55	7.02E+06	No
100-C-7:1_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg		_c	55	_c	-
100-C-7:1 Shallow 1	non-Rad	Zinc	7440-66-6	µg/kg	44,300	3.89E+08	55	7.02E+06	No
100-C-7:1_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	4.54E+06	_c	52	c	-
100-C-7:1 Shallow 2	non-Rad	Arsenic	7440-38-2	µg/kg	1,420	10,000	52	194	Yes
100-C-7:1_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	57,186	3.89E+08	52	7.54E+06	No
100-C-7:1_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	212	c	52	c	_
100-C-7:1 Shallow 2	non-Rad	Boron	7440-42-8	µg/kg	633	348,488	52	6.754	No
100-C-7:1_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	52	24	Yes
100-C-7:1_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	3,298	_¢	52		-
100-C-7:1_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	7,114	9.52E+06	52	184,462	No
100-C-7:1_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	12,752	7.69E+06	52	149,024	No
100-C-7:1_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	620	6,000°	52	6,000°	No
100-C-7:1_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	52	5.67E+06	Yes
100-C-7:1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg		_c	52	_6	-
100-C-7:1 Shallow 2	non-Rad	Manganese	7439-96-5	µg/kg	292,818	3.89£+08	52	7.54E+06	No
100-C-7:1 Shallow 2	non-Rad	Molybdenum	7439-98-7	μg/kg		563,885	52	10,928	No
100-C-7:1_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg		3.89€+08	52	7.54E+06	No
100-C-7:1_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg		_6	52	_6	_
100-C-7:1 Shallow 2	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	52	7.54E+06	No
100-C-7:1_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg		_¢	104	-c	_
100-C-7:1 Shallow 3	non-Rad	Arsenic	7440-38-2	µg/kg		10.000	104	97	Yes
100-C-7:1 Shallow 3	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	104	3.76E+06	No
100-C-7:1_Shallow_3	non-Rad	Beryllium	7440-41-7	HE/KE		_c	104	_6	-
100-C-7:1 Shallow 3	non-Rad	Boron	7440-42-8	µg/kg		348,488	104	3,367	No
100-C-7:1 Shallow 3	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	104	12	Yes
100-C-7:1_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg		_6	104	_6	_
100-C-7:1 Shallow 3	non-Rad	Cobalt	7440-48-4	µg/kg	9,644	9.52E+06	104	91,964	No
100-C-7:1_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	104	74,296	No
100-C-7:1_Shallow_3	non-Rad	Iron	7439-89-6	μg/kg		2.92E+08	104	2.83E+06	Yes
100-C-7:1_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	4,032	_¢	104	_c	-
100-C-7:1_Shallow_3	non-Rad	Manganese	7439-96-5	μg/kg	358,358	3.89E+08	104	3.76E+06	No
100-C-7:1_Shallow_3	non-Rad	Mercury	7439-97-6	μg/kg	12	1.34E+07	104	129,767	No
100-C-7:1_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	645	563,885	104	5,448	No
100-C-7:1_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	10,337	3.89E+08	104	3.76E+06	No
100-C-7:1_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	81,618	_c	104		-
100-C-7:1_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	50,985	3.89E+08	104	3.76E+06	No
100-C-9:1_Deep_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	3.88E+06	_c	2.0	_c	_
100-C-9:1_Deep_Focused	non-Rad	Antimony	7440-36-0	μg/kg	430	1.19E+07	2.0	5.95E+06	No
100-C-9:1_Deep_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	2,700	10,000	2.0	5,000	No
100-C-9:1_Deep_Focused	non-Rad	Berium	7440-39-3	μg/kg	46,000	3.89E+08	2.0	1.95E+08	No
100-C-9:1_Deep_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	1,800	_6	2.0	_c	-
100-C-9:1_Deep_Focused	non-Rad	Boron	7440-42-8	µg/kg		348,488	2.0	174,244	No
100-C-9:1_Deep_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	2.0	628	No
100-C-9:1_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg	16,100		2.0	_c	-
100-C-9:1_Deep_Focused	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	2.0	4.76E+06	No
100-C-9:1_Deep_Focused	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	2.0	3.84E+06	No
100-C-9:1_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,700	6,000°	2.0	6,000°	No
100-C-9:1_Deep_Focused	non-Rad	Iron	7439-89-6	μg/kg		2.92E+08	2.0	1.46E+08	No
100-C-9:1_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg	15,300	_ c	2.0	_ c	· MA
100-C-9:1_Deep_Focused	non-Rad	Lithium	7439-93-2	µg/kg	3,400	_c	2.0	_6	-
100-C-9:1 Deep Focused	non-Rad	Manganese	7439-96-5	μg/kg	311,000	3.89E+08	2.0	1.95E+08	No
100-C-9:1_Deep_Focused	non-Rad		7439-97-6	μg/kg		1.34E+07	2.0	6.72E+06	No
100-C-9:1_Deep_Focused		Molybdenum	7439-98-7	µg/kg		563,885	2.0	281,942	No

Table 7-1. Comparison of EPCs from 100-8C Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Sita/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{i \cdot g}{k \cdot g} \cdot m \text{ or } \frac{p \cdot C \cdot m}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-C-9:1_Deep_Focused	non-Rad	Nickel	7440-02-0	µg/kg	6,800	3.89E+08	2.0	1.95E+08	No
100-C-9:1_Deep_Focused	non-Rad	Strontium	7440-24-6	μg/kg	18,200	3.89E+08	2.0	1.95E+08	No
100-C-9:1_Deep_Focused	non-Rad	Tin	7440-31-5	μg/kg	4,500	¢	2.0	e	-
100-C-9:1_Deep_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	66,300	_c	2.0	_6	_
100-C-9:1_Deep_Focused	non-Rad	Zinc	7440-66-6	µg/kg	47,600	3.89E+08	2.0	1.95E+08	No
100-C-9:1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	_c	2.0	_ •	80
100-C-9:1_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	470	1.19E+07	112	106,231	No
100-C-9:1_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,304	10,000	112	89	Yes
100-C-9:1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	68,483	3.89E+08	112	3.47E+06	No
100-C-9:1_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	328	c	112	_6	-
100-C-9:1_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	836	348,488	112	3,112	No
100-C-9:1_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg	145	1,256	112	11	Yes
100-C-9:1_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	8,505		112	¢	-
100-C-9:1_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	8,098	9.52E+06	112	84,984	No
100-C-9:1_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	16,720	7.69E+06	112	68,657	No
100-C-9:1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	421	6,000°	112	6,000°	No
100-C-9:1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg		_'	112		-
100-C-9:1_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	316,608	3.89E+08	112	3.47E+06	No
100-C-9:1_Shallow_1	non-Rad	Mercury	7439-97-6	με/kg	44	1.34E+07	112	119,918	No
100-C-9:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	μg/kg		563,885	112	5,035	No
100-C-9:1_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	112	3.47E+06 80	No
100-C-9:1_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg		9,013 27,530	112	246	Yes No
100-C-9:1_Shallow_1 100-C-9:1_Shallow_1	non-Rad	Silver Vanadium	7440-22-4 7440-62-2	μg/kg μg/kg		27,530	112		NO
				_		3.89E+08	112	3.47E+06	No
100-C-9:1_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg			26	3.4/E+06	No.
100-C-9:1_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg		_*			
100-C-9:1_Shallow_2	non-Rad	Antimony	7440-36-0	μg/kg	513 4,983	1.19E+07	26 26	455,855 383	No Yes
100-C-9:1_Shallow_2	non-Rad	Arsenic Barium	7440-38-2 7440-39-3	µg/kg		10,000 3.89E+08	26	1.49E+07	No
100-C-9:1_Shallow_2 100-C-9:1_Shallow_2	non-Rad	Beryllium	7440-41-7	μg/kg μg/kg		5.855106	26	¢	
100-C-9:1_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,235	348,488	26	13,352	No
100-C-9:1_Shallow_2	non-Rad	Cadmium	7440-43-9	HE/KE		1,256	26	48	Yes
100-C-9:1_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg			26		-
100-C-9:1 Shallow 2	non-Rad	Cobalt	7440-48-4	µg/kg	9,787	9.52E+06	26	364.684	- No
100-C-9:1_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	26	294,621	No
100-C-9:1_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6.000°	26	6,000°	No
100-C-9:1 Shallow 2	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	26	1.12E+07	Yes
100-C-9:1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg		_c	26	6	-
100-C-9:1 Shallow 2	non-Rad	Lithium	7439-93-2	μg/kg		_c	26		-
100-C-9:1_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	26	1.49E+07	No
100-C-9:1_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	26	514,592	No
100-C-9:1 Shallow 2	non-Rad	Molybdenum	7439-98-7	μg/kg	367	563,885	26	21,605	No
100-C-9:1_Shallow_2	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	26	1.49E+07	No
100-C-9:1_Shallow_2	non-Rad	Strontium	7440-24-6	µg/kg		3.89E+08	26	1.49E+07	No
100-C-9:1_Shallow_2	non-Rad	Tin	7440-31-5	µg/kg		_°	26	-6	-
100-C-9:1_Shallow_2	non-Rad	Vanadium	7440-62-2	μg/kg	49,792		26	_6	_
100-C-9:1 Shallow 2	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	26	1.49E+07	No
100-C-9:1 Shallow Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	349	29	Yes
100-C-9:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	349	1.12E+06	No
100-C-9:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	340	1,256	349	3.6	Yes
100-C-9:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg			349		-
100-C-9:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	396	6,000°	349	6,000°	No
100-C-9:1 Shallow Focused	non-Rad	Lead	7439-92-1	µg/kg	4,900	_c	349	_c	
100-C-9:1 Shallow Focused	non-Rad	Selenium	7782-49-2	µg/kg		9,013	349	26	Yes
100-C-9:2 Shallow	non-Rad	4.4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg		-¢	12		-
100-C-9:2 Shallow	non-Rad		7429-90-5	µg/kg		_c	12		-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{ka} - m \sigma \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Conteminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soil Screening Level Protective of Groundwater?
100-C-9:2 Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	21		12	_6	-
100-C-9:2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,827	10,000	12	855	Yes
100-C-9:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	62,909	3.89E+08	12	3.32E+07	No
100-C-9:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg		_¢	12	_6	-
100-C-9:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg		· ·	12	_6	-
100-C-9:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	41	-¢	12	_c	-
100-C-9:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	45		12	_c	_
100-C-9:2 Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	454		12		_
100-C-9:2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	258	1,256	12	107	Yes
100-C-9:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,580	c	12	-6	_
100-C-9:2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg			12	_6	_
			7440-48-4	µg/kg	7,997	9.52E+06	12	813,527	No
100-C-9:2_Shallow	non-Rad	Cobalt	7440-50-8	µg/kg µg/kg		7.69E+06	12	657,232	No
100-C-9:2_Shallow 100-C-9:2_Shallow	non-Rad	Copper Dieldrin	60-57-1	µg/kg		166	12	14	No
100-C-9:2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	12	3.32E+07	No
100-C-9:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6.000°	12	6,000°	No
100-C-9:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg			12	-6	-
100-C-9:2_Shallow	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	12	2.50E+07	No
100-C-9:2_Shallow	non-Rad	Lead	7439-92-1	HE/NE		2.522700	12		-
100-C-9:2_Shallow	non-Rad	Lithium	7439-93-2	µg/kg			12	· · ·	_
			7439-96-5			3.89E+08	12	3.32E+07	No
100-C-9:2_Shallow 100-C-9:2_Shallow	non-Rad	Manganese Mercury	7439-96-5	μg/kg μg/kg		3.89E+08 1.34E+07	12	1.15E+06	No No
100-C-9:2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg		563.885	12	48,195	No
100-C-9:2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	12	3.32E+07	No
100-C-9:2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	12	3.32E+07	No
100-C-9:2 Shallow	non-Rad	Strontium	7440-24-6	µg/kg		3.89E+08	12	3.32E+07	No
100-C-9:2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg		_c	12	_6	_
100-C-9:2_Shallow	non-Rad	Zinc	7440-66-6	μg/kg		3.89E+08	12	3.32E+07	No
100-C-9:2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	_ 6	12		_
100-C-9:2_Shallow_Focused	non-Rad	4.4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg		836,540	15	56,523	No
100-C-9:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg		_c	15	_c	_
100-C-9:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg		_c	15	-6	-
100-C-9:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg		-c	15	_c	-
100-C-9:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	15	803,907	No
100-C-9:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg		c c	15	6	-
100-C-9:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	11		15	_c	
100-C-9:2 Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	15	676	Yes
100-C-9:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	15	2.63E+07	No
100-C-9:2 Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg		c	15		-
100-C-9:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		-	15	- 6	-
100-C-9:2 Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg		_c	15	_6	
	non-Rad		7440-41-7	μg/kg			15		_
100-C-9:2_Shallow_Focused	_	Beryllium		_			15	-	
100-C-9:2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		c			-
100-C-9:2_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg		348,488	15	23,546	No
100-C-9:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9 57-74-9	µg/kg		1,256 1.42E+06	15	85	Yes No
100-C-9:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg		1.42E+06	15	96,016	No -
100-C-9:2_Shallow_Focused				µg/kg					
100-C-9:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg			15		-
100-C-9:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,900	9.52E+06	15	643,126	No
100-C-9:2_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	15	519,569	No No
100-C-9:2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471 7,192	15 15	5,978 486	No No
100-C-9:2_Shallow_Focused 100-C-9:2_Shallow_Focused	non-Rad	Endosulfan I	959-98-8 72-20-8	µg/kg		1,219	15	82	No No
100-C-9:2 Shallow_Focused 100-C-9:2 Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg μg/kg		1,219 6.000°	15	6,000°	No No
100-C-9:2_Shallow_Focused	non-Rad	The state of the s	7439-89-6	HE/KE		6,000° 2.92E+08	15	1.98E+07	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

100-05-12_Johns_Found	Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC//g)	Is EPC > Soil Screening Level Protective of Groundwater?
1906-1-12 Julius Proceed Section Managemen 1748-9-12 MyS 7,000										
10.0013-1 10.0014-1 10.0	100-C-9:2 Shallow Focused	non-Rad	Lithium							
19.00.00.00.00.00.00.00.00.00.00.00.00.00					_					No
150-052-2 Julius Protection Section Michael Michael 77-445 160-052 181-052										
1905-052 Julius Piccounts 1906-054 1906-056 1	100-C-9:2_Shallow_Focused	non-Rad								
	100-C-9:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	1,900	563,885	15	38.100	No
19.00-12-12-12-12-12-12-12-12-12-12-12-12-12-	100-C-9:2_Shallow_Focused	non-Rad	Nickel	7440-02-0		22,000	3.89E+08	15	2.63E+07	No
10.00-25.2 July Processed Control Cont	100-C-9:2_Shallow_Focused	non-Rad	Strontium		μg/kg	32,700	3.89E+08	15	2.63E+07	No
100.05-13 100.	100-C-9:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	58,400	_c	15	_c	-
1905-06-3] Deep Focused 90 mb Re	100-C-9:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	111,000	3.89E+08	15	2.63E+07	No
1906-249_19ee_ Founder					μg/kg					
1906-6-29, Deep, Founder										No
1905-2-93 Deep Focused Non-ted Antenion Per 1905-2-93 Per 1905-2-93					-					
100-02-03 100-										
100-05-03_ Deep_ Focused one-file monipulation monipulati										
1906-05-23, Peep Focused non-field Recologlymene 50-3248 suffer 13,000 2.0				-						
1906-93 Deep Focused					-	_				
1906-043_Deep_Focused		_								
1905-0-6-3] Deep, Focused 00-Red			11		_					-
1906-043 Deep Focused 1906-045 Deep Focu		_			_					***
1906-5-93_Deep_Focused		non-Rad	Beryllium	7440-41-7	µg/kg	330	c	2.0	_c	-
1906-0-93_Deep_Focused non-Rad Carbasole 86-748 194/R 12,800 -1 2.0 -1 -1					μg/kg					No
1905-93_Deep_Focused non-Rad Oronnium P404-973 µg/kg 12,800 2.0										
1906-93_Deep_focused non-Rad Claysme 218-01-9 Nu/N 20,000 2.0										
1900-0-93_Deep_Focused non-Rad Cober 7440-484 W_fW 9,200 9,525.06\$ 2.0 4,766.06\$ No										
190C-93_Deep_Focused non-Rad Copper 1740-50-8					µg/kg	20,000	_c	2.0	_c	-
100-C-93_Deep_Focused non-Rad Dibenta/shipsthreaene 153-70-3 μ/Rs 2,200 2.0 100-C-93_Deep_Focused non-Rad Dibenta/shipsthreaene 120-C-49-1 μ/Rs 2,200 100-C-93_Deep_Focused non-Rad Houvarithene 200-C-49-1 μ/Rs 5,800 97,154 2.0 .										
190-C-9-3 Deep Focused Non-Rad Dibensofuran 132-64-9 μg/Rs 3,000 3,353 2.0 1,677 Yes										
100-C-9-3 Deep Focused non-Rad Fluorenthene 206-44-0 \(\begin{array}{c} \beg					_					
100-C-93_Deep_Focused non-Rad Huorene 167-77 \(\begin{array}{c}										
1906-93 Deep Focused Non-Rad Hexavalent Chromium 18540-29-9 196/18 610 6,000° 2.0 6,000° No 1906-93 Deep Focused Non-Rad Iron 1933-95 196/18 5,500 2.0 2.0 .		_								
100-C-9-3_Deep_Focused non-Rad Indeno(1,2,3-cd)pyrene 19-3-95 Ig/Rs 5,600 c 2.0 c 2.0 c 2.0 1.46E+08 No 100-C-9-3_Deep_Focused non-Rad sophorne 74-39-85 Ig/Rs 2.05E+07 2.92E+08 2.0 1.46E+08 No 100-C-9-3_Deep_Focused non-Rad sophorne 74-39-9-1 Ig/Rs 2.00 3.30 2.0 1.65S Yes 100-C-9-3_Deep_Focused non-Rad Lead 74-39-9-1 Ig/Rs 6.300 c 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Molybdenum 74-39-9-1 Ig/Rs 6.300 c 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Molybdenum 74-39-9-1 Ig/Rs 6.40 5.53,885 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 91-20-3 Ig/Rs 2.100 6.798 2.0 3.399 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 91-20-3 Ig/Rs 2.100 6.798 2.0 3.399 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 91-20-3 Ig/Rs 3.5,000 3.88E+08 2.0 3.399 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 91-20-3 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000 3.88E+08 2.0 1.95E+08 No 100-C-9-3_Deep_Focused non-Rad Nophthalene 129-00-0 Ig/Rs 3.5,000										
100-C-9-3 Deep Focused non-Rad non-Ra					_					
100-C-93_Deep_Focused non-Rad lead sophorone 78-59-1 mg/kg 280 330 2.0 1.65 Yes 100-C-93_Deep_Focused non-Rad lead read read					_	The state of the s				
100-C-9:3_Deep_Focused non-Rad Lead 7439-92-1 Mg/Rs 6,300 s 2.0 s 2.0 s 2.0 1.95E+08 No 100-C-9:3_Deep_Focused non-Rad Manganese 7439-98-7 Mg/Rs 412,000 3.89E+08 2.0 1.95E+08 No 100-C-9:3_Deep_Focused non-Rad Manganese non-Rad Naphthalene N										
100-C-9:3 Deep Focused		_								
100-C-9:3 Deep Focused non-Rad Moybdenum non-Rad Moybdenum non-Rad Moybdenum non-Rad N					-					
100-C-9:3 Deep Focused										
100-C-9:3 Deep Focused										
100-C-9:3 Deep Focused non-Rad Pyrene 129-00-0 Hg/Kg 35,000 3.89E+08 2.0 1.95E+08 No 100-C-9:3 Deep Focused non-Rad Silver 7440-62-2 Hg/Kg 140 27,530 2.0 1.3,765 No 1.00-C-9:3 Deep Focused non-Rad Vanadium 7440-62-2 Hg/Kg 63,900 c.c 2.0 c.c 2.0 c.c c 1.00-C-9:3 Deep Focused non-Rad Vanadium 7440-66-6 Hg/Kg 54,900 3.89E+08 2.0 1.95E+08 No 1.00-C-9:3 Deep Focused non-Rad Vanadium 7440-66-6 Hg/Kg 54,900 3.89E+08 2.0 1.95E+08 No 1.00-C-9:3 Deep Focused non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 16,456 c.c 2.0 c.c 2.0 c.c 1.00-C-9:3 Deep Focused non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 3.63 6,000° 2.0 c.c 0.0 c.c 1.00-C-9:3 Deep Focused non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 4,795 c.c 2.0 c.c 0.0 c.c 1.00-C-9:3 Deep Focused non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 4,795 c.c 2.0 c.c 0.0 c.c 1.00-C-9:3 Deep Focused non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 4,795 c.c 2.0 c.c 2.0 c.c 0.0 c.c 1.00-C-9:3 Deep Focused Non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 4,795 c.c 2.0 c.c 2.0 c.c 0.0 c.c 1.00-C-9:3 Deep Focused Non-Rad Heavalent Chromium 18540-29-9 Hg/Kg 2,834 c.c 2.0 1.34E+07 2.0 c.c 671,543 Non-Rad 1.00-C-9:3 Deep Focused Non-Rad Heavalent Chromium 1.00-C-9:3 Hg/Kg 2,834 c.c 2.0 c.c									4	
100-C-9:3_Deep_Focused non-Rad Silver Nadium N										
100-C-9:3_Deep_Focused non-Rad Vanadium 7440-62-2 µg/kg 63,900 c 2.0 c _										
100-C-9:3_Deep_Focused non-Rad Zinc 7440-66-6 ug/kg 54,900 3.89E+08 2.0 1.95E+08 No 116-B-1_Deep non-Rad Hexadent Chromium 7440-66-6 ug/kg 16,456 20 116-B-1_Deep non-Rad Hexavalent Chromium 18540-29-9 ug/kg 363 6,000° 20 6,000° No 116-B-1_Deep non-Rad Lead 7439-92-1 ug/kg 4,795 20 116-B-1_Deep non-Rad Mercury 7439-97-6 ug/kg 20 1.34E+07 20 671,543 No 116-B-1_Deep non-Rad Total_U_Isotopes Total_U_Isotopes ug/kg 2,0 1.34E+07 20 116-B-1_Deep Rad Americum-241 14596-10-2 pC/kg 0.052 20 116-B-1_Deep Rad Cesium-137 10045-97-3 pC/kg										
116-B-1_Deep non-Rad Chromium 7440-47-3 µg/kg 16.456 _c 20 _c _c 116-B-1_Deep non-Rad Hexavalent Chromium 18540-29-9 µg/kg 363 6,000° 20 6,000° No 116-B-1_Deep non-Rad Lead 7439-97-6 µg/kg 4/795 _c 20 _c 116-B-1_Deep non-Rad Mercury 7439-97-6 µg/kg 20 1.34E+07 20 671,543 No 116-B-1_Deep non-Rad Total_U_Isotopes µg/kg 20 1.34E+07 20 671,543 No 116-B-1_Deep Rad Americium-241 14596-10-2 pC/g 0.052 _c 20 _c 116-B-1_Deep Rad Cesium-137 10045-97-3 pC/g 3.1 _c 20 _c					_					
116-B-1_Deep non-Rad Hexavalent Chromium 18540-29-9 Hg/Rg 363 6,000° 20 6,000° No 116-B-1_Deep non-Rad Lead 7439-92-1 µg/Rg 4,795 _° 20 _° 116-B-1_Deep non-Rad Mercury 7439-97-6 µg/Rg 20 1.34E+07 20 671,543 No 116-B-1_Deep non-Rad Total_U_Isotopes µg/Rg 2,834 _¹ 20 _¹ 116-B-1_Deep Rad Americium-241 14596-10-2 PC/Ig 0.052 _° 20 _° 116-B-1_Deep Rad Cesium-137 10045-97-3 PC/Ig 3.1 _° 20 _°		_								
116-B-1_Deep non-Rad Lead 7439-92-1 μg/kg 4,795					-					
116-B-1_Deep non-Rad Mercury 7439-97-6 \(\mathbb{E} \)/\(\mathbb{E} \)\ 20 671,543 No 116-B-1_Deep non-Rad Total_U_Isotopes Total_U_Isotopes \(\mu \)/\(\mu \)/\(\mu \) 2,834 \(\dull \)' 20 \(\dull \)' \(\dull \) 116-B-1_Deep Rad Americium-241 14596-10-2 pCi/g 0.052 \(\dull \)' 20 \(\dull \)' \(\dull \) 116-B-1_Deep Rad Cesium-137 10045-97-3 pCi/g 3.1 \(\dull \)' 20 \(\dull \)' \(\dull \)			The state of the s		-					
116-B-1_Deep non-Rad Total_U_Isotopes If Idal_U_Isotopes Idal_U_Isotopes </td <td></td> <td></td> <td></td> <td></td> <td>$\overline{}$</td> <td></td> <td></td> <td></td> <td></td> <td></td>					$\overline{}$					
116-B-1_Deep Rad Americium-241 14596-10-2 pCi/g 0.052 _6 20 _6 _ 116-B-1_Deep Rad Cesium-137 10045-97-3 pCi/g 3.1 _6 20 _6 _6 _6										
116-B-1_Deep Rad Cesium-137 10045-97-3 pCi/g 3.1 20					-					
					_					
116-B-1_Deep Rad Cobalt-60 10198-40-0 pCl/g 0.17 c 20 c					_					
116-B-1_Deep Rad Europium-152 14683-23-9 pCl/g 7.1c 20c					-					

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (ug/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		(Kg g	(m)	or pCi/g)	of Groundwater?
116-B-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.36	c	20	_c	-
116-B-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	_6	20	_ c	_
116-B-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	2,121	20	106	No
116-B-1_Deep		Uranium-234	13966-29-5	pCi/g	1.1	_6	20	_6	-
116-8-1_Deep	Red	Uranium-235	15117-96-1	pCi/g	0.045	t	20	_*	-
116-B-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.95		20	_t	-
116-B-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,550	_e	11	_°	
116-B-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	11	6,000°	No
116-B-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	5,699	_c	11	_6	_
116-B-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	11	1.24E+06	No
116-B-1_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	HE/kg	2,247	_1	11	_'	-
116-B-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.19	<u></u> c	11	c	-
116-B-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.11		11	_6	-
116-B-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.75		11	c	-
116-B-1_Shallow	Rad	Europium-154	15585-10-1	pCI/g	0.18		11	_c	-
116-B-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.031	c	11	_¢	-
116-B-1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	_6	11	_6	-
116-B-1 Shallow	Rad	Uranium-238	U-238	pCi/g	0.75	*	11	_#	-
116-8-10 Shallow	non-Rad	Chromium	7440-47-3	µg/kg	23,800		8.4	_c	-
116-8-10 Shallow	non-Rad	Lead	7439-92-1	µg/kg		_c	8.4	¢	_
116-B-10_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	1,300	1.34E+07	8.4	1.60E+06	No
116-B-10 Shallow	non-Rad	Total U Isotopes	Total U Isotopes	µg/kg		_ (8.4	_t	-
116-B-10 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.034	_c	8.4	_¢	
116-B-10 Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.080	_c	8.4	_e	_
116-B-10 Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.053		8.4	_ (_
116-B-10 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	_1	8.4		-
116-B-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.71	_6	8.4		_
116-B-11_Deep	non-Rad	Chromium	7440-47-3	µg/kg			86		_
116-B-11_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	-	6,000°	86		No
116-B-11_Deep	non-Rad	Lead	7439-92-1	µg/kg		6,000	86	6,000°	-
116-B-11_Deep	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	86	156,719	No
116-B-11_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	HE/KE		1.34£+07	86	136,713	NO -
116-B-11_Deep	Rad	Americium-241	14596-10-2	pCi/g	5.1		86	-6	_
116-B-11_Deep	Rad	Cesium-137	10045-97-3	pCi/g	122		86		
116-B-11_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	40		86		_
116-B-11_Deep	Rad	Europium-152	14683-23-9	1	325		86		-
				pCi/g		c	86		
116-B-11_Deep	Rad	Europium-154	15585-10-1	pCi/g	42				
116-B-11_Deep	Rad	Europium-155	14391-16-3	pCi/g	2.2	_c	86	e	
116-B-11_Deep	Rad	Nickel-63	13981-37-8	pCi/g	2,702	_c	86	_e	-
116-B-11_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.76	_c	86	t	***
116-B-11_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	19	_c	86		-
116-B-11_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.8	2,121	86	25	No
116-B-11_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.6	_1	86	_6	
116-B-11_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.069		86	_6	-
116-B-11_Deep	Rad	Uranium-238	U-238	pCi/g	1.4		86	_6	-
116-B-11_Shallow	non-Rad	Chromium	7440-47-3	µg/kg		_¢	6.8		-
116-B-11_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg		6,000°	6.8	6,000°	No
116-B-11_Shallow	non-Rad	Lead	7439-92-1	μg/kg		°	6.8		-
116-B-11_Shallow	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	6.8	1.98E+06	No
116-B-11_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_'	6.8		-
116-B-11_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.094	_e	6.8	c	_
116-B-11_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.92	_c	6.8	_ c	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

		Table 7-1. Comparison of EPCs from 100-BC Operable U	THE WEST SITE DECISION (mics to	310MF 1D 70:30/1	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater	Site Width in	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for	
	Analyte				Exposure Point Concentration	Protection* $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Direction of Groundwater Flow	Groundwater Protection Scaled to Site	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		1-0	(m)	or pCl/g)	of Groundwater?
116-B-11_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	-c	6.8	_6	
116-B-11_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.9	_6	6.8	_6	-
116-B-11_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	22	_c	6.8	_*	-
116-B-11_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.069	_ c	6.8	_6	-
116-B-11_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.34	2,121	6.8	312	No
116-8-11_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.3		6.8		-
116-B-11_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.057	_1	6.8	_1	-
116-B-11_Shallow	Rad	Uranium-238	U-238	pCi/g	1.3		6.8		-
116-B-12_Deep	non-Rad	Chromium	7440-47-3	μg/kg	10,800	_c	15	_c	-
116-B-12_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	860	6,000°	15	6,000°	No
116-B-12_Deep	non-Rad	Lead	7439-92-1	µg/kg	5,700	_6	15	_6	-
116-B-12_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	2,048		15	_'	-
116-B-12_Deep	Red	Cesium-137	10045-97-3	pCi/g	0.019		15	_6	
116-B-12_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	_6	15	-,4	-
116-B-12_Deep	Rad	Uranium-238	U-238	pCi/g	0.69	_6	15	6	-
116-B-12 Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,900		16		-
116-B-12 Shallow	non-Rad	Lead	7439-92-1	µE/kg	5,600	_c	16	_c	-
116-B-12 Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,884		16	_'	_
116-B-12_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.034	_e	16	-6	_
116-8-12_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	_6	16	_*	-
116-B-12_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.024	, t	16	_*	-
116-B-12_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	_6	16		_
116-B-13 Shallow	non-Rad	Chromium	7440-47-3	µg/kg			25		-
116-B-13_Shallow	non-Rad	Lead	7439-92-1	µg/kg			25		-
116-B-13_Shallow	non-Rad		7439-97-6	_		1.34E+07	25	545,970	No
116-B-13_Shallow	non-Rad	Mercury Total U Isotopes	Total_U_isotopes	μg/kg μg/kg		1.346407	25	343,570	
116-B-13 Shallow	Rad	Americium-241	14596-10-2	pCi/g			25	-	_
116-B-13_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049		25		_
	Rad	Plutonium-239/240	PU-239/240	pCi/g			25		_
116-B-13_Shallow	Rad		SR-RAD	_		2,121	25	86	No
116-B-13_Shallow 116-B-13_Shallow	Rad	Total beta radiostrontium Uranium-234	13966-29-5	pCi/g	1.1	2,121	25	8b	- NO
116-B-13_Shallow	Rad	Uranium-235	15117-96-1	pCi/g		3	25	-	
116-B-13_Shallow	Rad	Uranium-238	U-238	pCi/g	0.99	_6	25		_
116-B-14 Deep	non-Rad	Aluminum	7429-90-5	µg/kg			3.6	•	
	non-Rad		7440-36-0			1.19E+07		3.30E+06	No
116-8-14_Deep 116-8-14_Deep	non-Rad	Antimony Barium	7440-36-0	μg/kg μg/kg		3.89E+08	3.6	1.08E+08	No
116-B-14_Deep	non-Rad	Beryllium	7440-41-7	HE/KE		3.632+06	3.6		-
116-B-14_Deep	non-Rad	Chromium	7440-47-3	µg/kg	18,600		3.6	_e	_
116-B-14_Deep	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	3.6	2.64E+06	No
116-B-14_Deep	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	3.6	2.14E+06	No
116-B-14_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	3.6	6,000°	No
116-B-14 Deep	non-Rad		7439-89-6	µg/kg		2.92E+08	3.6	8.12E+07	No
116-B-14_Deep	non-Rad	Lead	7439-92-1	µg/kg		e	3.6	6.22.107	-
116-B-14_Deep	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	3.6	1.08E+08	No
116-B-14_Deep	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	3.6	3.73E+06	No
116-B-14_Deep	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	3.6	1.08E+08	No
116-B-14_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_!	3.6		-
116-B-14_Deep	non-Rad	Vanadium	7440-62-2	µg/kg	39,600	_6	3.6	_c	-
116-B-14_Deep	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	3.6	1.08E+08	No
116-B-14_Deep	Rad	Cesium-137	10045-97-3	pCi/g	5.9		3.6	_¢	-
116-8-14_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.3	_c	3.6	c	-
116-B-14_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	-c	3.6		-
116-B-14_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g		2,121	3.6	589	No
	_								

Table 7-1. Comparison of EPCs from 100-8C Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection* (\frac{\mathred{Mg}}{\mathred{kg}} \cdots \text{ m or } \frac{\mathred{PCl}}{\mathred{M}} \cdots \text{ m})	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	is EPC> Soil Screening Level Protective of Groundwater?
116-B-14_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.99	_6	3.6	_1	or discultaneous
116-B-14_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.063	_1	3.6		44
116-B-14_Deep	Rad	Uranium-238	U-238	pCi/g	1.0		3.6	-	_
116-B-14_Shallow	non-Rad	Chromium	7440-47-3	µg/kg			3.4		_
116-B-14_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	HE/KE	297	6,000°	3.4	6,000°	No
116-B-14_Shallow	non-Rad	Lead	7439-92-1	µg/kg		6,000	3.4	6,000	-
116-B-14_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	30	1.34E+07	3.4	3.95E+06	No
116-B-14_Shallow	non-Rad	Total U Isotopes	Total_U_isotopes	µg/kg		1.546707	3.4	3.35000	-
116-B-14_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.26	e c	3.4	_6	_
116-8-14_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	_ C	3.4		_
	Rad	Europium-152	14683-23-9	pCi/g	4.4		3.4		**
116-B-14_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.37		3.4		=
116-8-14_Shallow			PU-239/24U SR-RAD		1.6		3.4	624	No
116-B-14_Shallow	Rad Rad	Total beta radiostrontium Uranium-234	13966-29-5	pCi/g pCi/g	1.5	2,121	3.4	6	No -
116-B-14_Shallow			15117-96-1		0.061	3	3.4		_
116-B-14_Shallow	Rad	Uranium-235		pCi/g		3	3.4	3	-
116-8-14_Shallow	Rad	Uranium-238	U-238	pCi/g	1.5				
116-B-15_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	18	559	Yes
116-B-15_Shallow_Focused	non-Rad	Barium	7440-39-3 7440-47-3	HE/kg	89,000 14,400	3.89E+08	18	2.17E+07	No -
116-B-15_Shallow_Focused			7439-92-1	-			18		_
116-8-15_Shallow_Focused	non-Rad	Lead		μg/kg		9,013	18	504	No
116-8-15_Shallow_Focused	non-Rad	Selenium Total U Isotopes	7782-49-2 Total_U_isotopes	µg/kg µg/kg		9,013	18	504	NO
116-B-15_Shallow_Focused	_		13981-37-8				18	_6	
116-B-15_Shallow_Focused	Rad	Nickel-63		pCi/g					
116-B-15_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g		_1	18		-
116-B-15_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g		t	18	_*	-
116-B-2_Deep	non-Rad	Chromium	7440-47-3	µg/kg			15	_c	
116-B-2_Deep	non-Rad	Lead	7439-92-1	µg/kg		_ c	15	c	-
116-B-2_Deep	non-Rad	Total_U_Isotopes	Total_U_isotopes	µg/kg			15		-
116-B-2_Deep	Rad	Americium-241	14596-10-2	pCi/g		_c	15	_6	
116-B-2_Deep	Rad	Cesium-137	10045-97-3	pCi/g		_c	15		-
116-B-2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.023	_c	15	_6	-
116-B-2_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.60	_c	15		-
116-B-2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.59		15		
116-B-2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	7.2	2,121	15	142	No
116-B-2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	6	15	_6	-
116-B-2_Deep	Rad	Uranium-238	U-238	pCi/g	0.56	_8	15	_6	-
116-B-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,300	_6	7.7		-
116-B-2_Shallow	non-Rad	Lead	7439-92-1	Hg/kg	8,100	_e	7.7	_c	-
116-B-2_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,482		7.7	_'	-
116-B-2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	_c	7.7	_*	-
116-B-2 Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	2,121	7.7	275	No
116-B-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g		_t	7.7	_,1	-
116-B-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	_t	7.7	_6	_
116-B-3_Deep	non-Rad	Chromium	7440-47-3	µg/kg	10,400	_c	2.2	_c	_
116-B-3 Deep	non-Rad	Lead	7439-92-1	µg/kg		_c	2.2		-
116-B-3_Deep	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	2.2	6.10E+06	No
116-B-3 Deep	non-Rad	Total U isotopes	Total_U_Isotopes	µg/kg			2.2		-
116-B-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g		_t	2.2	-6	-
116-B-3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g		_ c	2.2	, c	B.00
116-B-3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g		2.121	2.2	964	No
116-8-3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g			2.2	_5	-
116-B-3_Deep	Rad	Uranium-238	U-238	pCi/g			2.2	,	-

Table 7-1, Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protactive of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection* (\(\frac{\mu g}{ka} - m \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soil Screening Level Protective of Groundwater?
116-B-3 Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,800	_¢	6.5	_c	-
116-B-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	8,400	_c	6.5	_¢	**
116-B-3 Shallow	non-Rad	Mercury	7439-97-6	µg/kg	50	1.34E+07	6.5	2.07E+06	No
116-B-3_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,697		6.5		-
116-B-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	_¢	6.5		-
116-B-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70		6.5	_6	
116-B-3 Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	_6	6.5	_3	-
116-B-4_Deep	non-Rad	Acetone	67-64-1	µg/kg	12	17,372	39	447	No
116-B-4_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	7.62E+06	_c -	39	-¢	**
116-B-4 Deep	non-Rad	Antimony	7440-36-0	µg/kg	6,701	1.19E+07	39	305,857	No
116-B-4_Deep	non-Rad	Arocior-1254	11097-69-1	µg/kg	130	_c	39	¢	
116-B-4 Deep	non-Rad	Arsenic	7440-38-2	µg/kg	3,600	10,000	39	257	Yes
116-B-4_Deep	non-Rad	Barium	7440-39-3	µg/kg	50,733	3.89E+08	39	1.00E+07	No
116-B-4_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	459		39		-
116-B-4_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	290	_c	39	_6	_
116-B-4_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	394	1,256	39	32	Yes
116-B-4_Deep	non-Rad	Chromium	7440-47-3	µg/kg	92,716	_*	39	_c	-
116-8-4_Deep	non-Rad	Cobait	7440-48-4	µg/kg	8,845	9.52E+06	39	244,685	No
116-B-4_Deep	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	39	197,677	No
116-B-4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	39	6,000°	No
116-B-4_Deep	non-Rad	Iron	7439-89-6	HE/KE		2.92E+08	39	7.52E+06	Yes
116-B-4_Deep	non-Rad	Lead	7439-92-1	μg/kg		_t	39	_e	-
116-B-4_Deep	non-Rad	Manganese	7439-96-5	μg/kg		3.89E+08	39	1.00E+07	No
116-B-4_Deep	non-Rad	Mercury	7439-97-6	μg/kg	440	1.34E+07	39 39	345,266 0.35	No Yes
116-B-4_Deep	non-Rad	Methylene chloride	75-09-2	μg/kg		14 3.89E+08	39	1.00E+07	No No
116-B-4_Deep	non-Rad	Nickel Silver	7440-02-0 7440-22-4	μg/kg μg/kg		27,530	39	708	Yes
116-B-4_Deep 116-B-4_Deep	non-Rad	Total_U_Isotopes	Total U_isotopes	µg/kg			39	_'	-
116-8-4_Deep	non-Rad	Vanadium	7440-62-2	µg/kg		_c	39	¢	-
116-8-4_Deep	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	39	1.00E+07	No
116-B-4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.070	5.05€100	39		
116-B-4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	112	_c	39		-
116-B-4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	_c	39	, c	-
116-B-4_Deep	Rad	Europium-152	14683-23-9	pCi/g	195	, t	39	· ·	_
	Rad	Europium-154	15585-10-1	pCi/g	45		39		
116-B-4_Deep	_		14391-16-3	pCi/g	1.3	- C	39	_c	_
116-B-4_Deep	Rad	Europium-155 Niobium-94	14681-63-1	pCi/g	0.34	_h	39	h	
116-B-4_Deep	Rad		U-233/234		0.51		39		_
116-B-4_Deep	Rad	Uranium-233/234		pCi/g					_
116-B-4_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	_4	39		-
116-B-4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg		_*	10	_c	
116-B-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg		e	10		
116-B-4_Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg			10		-
116-B-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049	_c	10	_c	
116-B-4_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.37		10	_c	-
116-B-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	_*	10	_c	40
116-B-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	_1	10	6	_
116-B-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	_*	10	_6	
116-B-5_Deep_Focused	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	19	725,992	No
116-B-5_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.29	_c	19		
116-B-5_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.94	_c	19	_6	94
116-B-5_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	10.0	c	19	c	-
116-B-5_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	0.88	_c	19		-
116-8-5_Shallow_Focused	non-Rad		7440-39-3	µg/kg		3.89E+08	38	1.03E+07	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Anelyte	11-1			Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\pmathcal{H}}{\pmathcal{E}} \cdots \mathcal{m} \) or \(\frac{\pmathcal{E}}{\pmathcal{H}} \cdots \mathcal{m} \)	Site Width in Direction of Groundwater Flow		is EPC > Soil Screening Level Protective
Weste Site/Decision Unit	Group	Analyte Name	CAS No.		(µg/kg or pCi/g)	\Kg	(m)	or pCl/g)	of Groundwater?
116-B-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	38	357,204	No
116-B-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.8	¢	38	_6	
116-B-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.0		38		-
116-B-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	7.3	_c	38		-
116-B-5_Shallow_Focused	Radi	Europium-154	15585-10-1	pCi/g	0.67	_e	38		-
116-B-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	680	60	38	1.6	Yes
116-8-6A_Deep	non-Rad	Chromium	7440-47-3	HE/kg	7,100	_t	11	c	-
116-B-6A_Deep	non-Rad	Lead	7439-92-1	Hg/kg	5,900		11	_c	_
116-B-6A_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,735	_'	11	_'	_
116-B-6A_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.16	_c	11		-
116-B-6A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.0	c	11	_*	-
116-B-6A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	_¢	11		-
116-B-6A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	2,121	11	193	No
116-B-6A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	_6	11	_6	-
116-8-6A_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.042	_6	11	_3	
116-B-6A_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	_8	11	6	-
116-B-6A_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,700	_¢	7.9		-
116-B-6A_Shallow	non-Rad	Lead	7439-92-1	µ∉/kg	11,100	_¢	7.9		-
116-B-6A Shallow	non-Rad	Mercury	7439-97-6	μg/kg	20	1.34E+07	7.9	1.70E+06	No
116-B-6A Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg			7.9	_'	_
116-B-6A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	6.4	_c	7.9	_c	_
116-B-6A Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.23	c	7.9	_c	-
116-B-6A Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	3.3	2,121	7.9	268	No
116-B-6A Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.4	_t	7.9	_6	-
116-B-6A_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.28	_4	7.9	8	- m
116-8-6A Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	_6	7.9	_8	-
116-B-6B_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,500		8.6	_c	-
116-B-6B_Shallow	non-Rad	Lead	7439-92-1	µg/kg		E.	8.6		-
116-B-6B Shallow	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	8.6	1.56E+06	No
116-B-6B_Shallow	non-Rad	Total_U_Isotopes	Total U isotopes	µg/kg			8.6	_'	-
116-B-6B_Shallow	Rad	Cesium-137	10045-97-3	pCi/g		_c	8.6	_*	-
116-B-6B_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g		_*	8.6	_8	_
116-B-6B Shallow	Red	Uranium-238	U-238	pCi/g		_*	8.6	_8	_
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Chromium	7440-47-3	µg/kg		_c	13	_c	_
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	13	6,000°	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Lead	7439-92-1	HE/KE		6,000	13	5,000	-
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	13	1.06E+06	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg		1.342707	13		***
116-B-7, 132-B-6, 132-C-2 Deep	Rad	Cesium-137	10045-97-3	pCi/g		_c	13		-
	Rad	Cobalt-60	10198-40-0	pCi/g			13	_*	-
116-B-7, 132-B-6, 132-C-2_Deep			14683-23-9	pCi/g			13		_
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Europium-152	13981-37-8	-		_ c	13		
116-B-7, 132-B-6, 132-C-2_Deep	Red	Nickel-63		pCi/g					No
116-8-7, 132-8-6, 132-C-2_Deep	Rad	Total beta radiostrontium Uranium-233/234	SR-RAD U-233/234	pCi/g		2,121	13	167 _e	NO -
116-B-7, 132-B-6, 132-C-2_Deep			15117-96-1	_		3	13	3	-
116-B-7, 132-B-6, 132-C-2_Deep	Red	Uranium-235		pCi/g				3	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-238	U-238	pCi/g	0.84	_3	13		
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Chromium	7440-47-3	μg/kg		_*	21		N-
116-8-7, 132-8-6, 132-C-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ME/KI		6,000°	21	6,000°	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Lead	7439-92-1	ME/K		_*	21	_3	-
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Mercury	7439-97-6	μg/kg		1.34E+07	21	642,625	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	ME/KE			21	2	-
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.34	2	21		-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Sike/Decision Unik	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu_G}{k_B} \cdots \text{or} \frac{\rho L}{k} \cdots \text{m}}	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/(g)	Is EPC > Soil Screening Level Protective of Groundwater?
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	- 6	21	-4	_
116-B-7, 132-B-6, 132-C-2 Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.9	-¢	21	¢	_
116-B-7, 132-B-6, 132-C-2 Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.22	-6	21	_ c	
116-B-7, 132-B-6, 132-C-2 Shallow	Rad	Nickel-63	13981-37-8	pCi/g	3.6	_6	21	_¢	-
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.75		21	3	-
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.050	_*	21	3	-
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69		21		
116-B-9_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	13,200	c	7.1	_¢	-
116-B-9_Shallow	non-Rad	Lead	7439-92-1	μg/kg	12,000	_c	7.1	_:	-
116-B-9 Shallow	non-Rad	Mercury	7439-97-6	µg/kg	390	1.34E+07	7.1	1.89E+06	No
116-B-9_Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg	1,372		7.1	_'	-
116-B-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.44	8	7.1		_
116-B-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	_6	7.1	3	-
116-C-1_Deep	non-Rad	Chromium	7440-47-3	µg/kg	66,667	c	58		-
116-C-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	497	6,000°	58	6,000°	No
116-C-1_Deep	non-Rad	Lead	7439-92-1	µg/kg	21,737	_ c	58	_6	-
116-C-1_Deep	non-Rad	Mercury	7439-97-6	µg/kg	2,275	1.34E+07	58	233,580	No
116-C-1_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	34,266		58		
116-C-1_Deep	Rad	Americium-241	14596-10-2	pCi/g	25	_c	58	_c	-
116-C-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1,484	_c	58	_ e	70
116-C-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	62	-6	58	-6	10
116-C-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	412	-6	58	c	_
116-C-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	28	c	58		_
116-C-1_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.6		58	_6	_
116-C-1_Deep	Rad	Nickel-63	13981-37-8	pCi/g	634		58	_ c	-
116-C-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.94		58		
116-C-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	46		58		_
116-C-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	64	2,121	58	37	Yes
116-C-1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	_6	58	t	-
116-C-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	5.1		58		-
116-C-1_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.063	_6	58		-
116-C-1_Deep	Rad	Uranium-238	U-238	pCi/g	6.1		58	3	-
116-C-1_Deep_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.69E+06		58	_c	_
116-C-1_Deep_Focused	non-Rad	Antimony	7440-36-0	µg/kg	2,600	1.19E+07	58	206,919	No
116-C-1_Deep_Focused	non-Rad	Barium	7440-39-3	µg/kg	77,800	3,89E+08	58	6.77E+06	No
116-C-1_Deep_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	530	_e	58	_°	-
116-C-1 Deep Focused	non-Rad	Cadmium	7440-43-9	µg/kg	2,900	1,256	58	22	Yes
116-C-1_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg	148,000	_c	58	- C	-
116-C-1_Deep_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,000	9.52E+06	58	165,535	No
116-C-1_Deep_Focused	non-Rad	Copper	7440-50-8	µg/kg	30,400	7.69E+06	58	133,733	No
116-C-1_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,800	6,000°	58	6,000°	No
116-C-1_Deep_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.31E+07	2.92E+08	58	5.09E+06	Yes
116-C-1_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg	48,500	_c	58	_c	-
116-C-1_Deep_Focused	non-Rad	Manganese	7439-96-5	µg/kg	296,000	3.89E+08	58	6.77E+06	No
116-C-1_Deep_Focused	non-Rad	Mercury	7439-97-6	μg/kg	11,800	1.34E+07 3.89E+08	58	233,580 6.77E+06	No No
116-C-1_Deep_Focused	non-Rad	Nickel Silver	7440-02-0 7440-22-4	μg/kg μg/kg	18,600 890	3.89E+08 27,530	58	6.77E+06 479	Yes
116-C-1_Deep_Focused 116-C-1_Deep_Focused	non-Rad	Total_U_isotopes	Total_U_Isotopes	µg/kg	2,977	27,530	58	4/5	-
116-C-1_Deep_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	38,600		58	-	
116-C-1_Deep_Focused	non-Rad	Zinc	7440-66-6	µg/kg	464,000	3.89E+08	58	6.77E+06	No
116-C-1_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	83	3,832106	58	-¢	-
116-C-1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	5,690	_c	58		_
116-C-1_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g			58	-6	

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soli Screening Level for Groundwater Protection* \(\begin{array}{l} \text{\psi} \\ \psi	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	is EPC > Soil Screening Level Protective of Groundwater?
Waste Site/Decision Unit 116-C-1_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	1,120	-c	58	or payer	or Groundwater:
116-C-1_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	144	_e	58	_*	_
116-C-1_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	1,590		58	c	-
116-C-1_Deep_Focused	Rad	Plutonium-238	13981-16-3	pCi/g	4.0	_6	58	_ *	-
116-C-1_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	136	_¢	58	e	_
116-C-1_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	88	2,121	58	37	Yes
116-C-1_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.19	_6	58	_5	-
116-C-1_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	1.0	_*	58	_6	-
116-C-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,664	_6	12	_c	-
116-C-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,420	_c	12	_c	_
116-C-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	30	1.34E+07	12	1.09E+06	No
116-C-1_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	2,357		12	_!	_
116-C-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.83	_c	12	_c	-
116-C-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.074	_c	12	_6	-
116-C-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.6	_e	12	_6	-
116-C-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	_ c	12	_c	-
116-C-1 Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	2,121	12	172	No
116-C-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.82	_6	12	_+	-
116-C-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.045	_6	12		_
116-C-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.79	_*	12	_4	_
116-C-2A Deep	non-Rad	Chromium	7440-47-3	µg/kg	29,500	e c	14	_6	_
116-C-2A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	848	6.000°	14	6,000 ⁶	No
116-C-2A_Deep	non-Rad	Lead	7439-92-1	µg/kg	14,000	_°	14		-
116-C-2A_Deep	non-Rad	Mercury	7439-97-6	μg/kg	150	1.34E+07	14	945,835	No
116-C-2A_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,428	_1	14	_'	-
116-C-2A_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.71	_e	14	_6	-
116-C-2A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	23	_c	14	_6	-
116-C-2A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	12	c	14	_ c	-
116-C-2A_Deep	Rad	Europium-152	14683-23-9	pCi/g	30	_c	14	_c	_
116-C-2A_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.3	_c	14	_c	-
116-C-2A_Deep	Rad	Nickel-63	13981-37-8	pCi/g	540		14		_
116-C-2A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	-c	14	_ c	_
116-C-2A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.5		14	-6	-
116-C-2A Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.2	2.121	14	149	No
116-C-2A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	8	14	_6	-
116-C-2A_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.036		14	_6	
116-C-2A Deep	Rad	Uranium-238	U-238	pCi/g	0.48		14	_6	_
116-C-2A Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,262	_c	9.8	_6	_
116-C-2A_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,600	_t	9.8	_6	-
116-C-2A_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	_	1.34E+07	9.8	1.37E+06	No
116-C-2A_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_1	9.8		-
116-C-2A Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43	_c	9.8	_c	-
116-C-2A_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.23	_c	9.8	_c	-
116-C-2A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.26	_c	9.8	_c	-
116-C-2A_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.7	_e	9.8	· · · · ·	-
116-C-2A_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	c	9.8	_c	_
116-C-2A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.9	2,121	9.8	216	No
116-C-2A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	_4	9.8	6	_
116-C-2A Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	_1	9.8	_6	_
116-C-3_Shallow	non-Rad	Aluminum	7429-90-5	μg/kg	9.19E+06	_c	5.0	_c	-
116-C-3_Shallow	non-Rad		7440-36-0	μg/kg		1.19E+07	5.0	2.38E+06	No
116-C-3_Shallow		Arsenic	7440-38-2	μg/kg		10,000	5.0	2,000	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mathred{\mta}\end{\mathred{\mathred{\mathred{\mathred{\mathred{\mathred{\mathred{\mtx}\m	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC> Soil Screening Level Protective of Groundwater?
116-C-3_Shallow		Barium	7440-39-3	µg/kg		3.89E+08	5.0	7.78E+07	No
116-C-3 Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	725	-c	5.0	_c	-
116-C-3_Shallow	non-Rad	Boron	7440-42-8	µg/kg	7,239	348,488	5.0	69,698	No
116-C-3 Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	204	1,256	5.0	251	No
116-C-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	15,457	_c	5.0	c	-
116-C-3_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	7,387	9.52E+06	5.0	1.90E+06	No
116-C-3_Shallow	non-Rad	Copper	7440-50-8	μg/kg	15,592	7.69E+06	5.0	1.54E+06	No
116-C-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	1,430	6,000°	5.0	6,000°	No
116-C-3_Shallow	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	5.0	5.85E+07	No
116-C-3_Shallow	non-Rad	Lead	7439-92-1	μg/kg		_"	5.0	_6	-
116-C-3_Shallow	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	5.0	7.78E+07	No
116-C-3_Shallow	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	5.0	7.78E+07	No
116-C-3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg		23,943	5.0	4,789	No
116-C-3_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	2,278		5.0	_1	_
116-C-3_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	38,808		5.0	_¢	-
116-C-3_Shallow	non-Rad	Zinc	7440-66-6	μg/kg		3.89E+08	5.0	7.78E+07	No
116-C-3_Shallow	Rad	Carbon-14	14762-75-5	pCi/g		_c	5.0	¢	_
116-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.86		5.0	_c	_
116-C-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.15		5.0	_c	_
116-C-3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.64	2,121	5.0	424	No
116-C-3_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.2	60	5.0	12	No
116-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g		_6	5.0	_6	war .
116-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.77	_6	5.0	_6	_
116-C-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	1.15E+07	_c	4.6	_c	_
116-C-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	4.6	2,174	Yes
116-C-3_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	4.6	8.46E+07	No
116-C-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg		_c	4.6	-c	-
116-C-3_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg		348,488	4.6	75,758	No
116-C-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	4.6	273	Yes
116-C-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		_c	4.6	_e	
116-C-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	4.6	2.07E+06	No
116-C-3_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	4.6	1.67E+06	No No
116-C-3_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	4.6	6,000°	
116-C-3_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg		2.92E+08	4.6	6.36E+07	No
116-C-3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg				8.46E+07	No
116-C-3_Shallow_Focused	non-Rad	Manganese Molybdenum	7439-96-5 7439-98-7	µg/kg		3.89E+08 563,885	4.6	122,584	No No
116-C-3_Shallow_Focused 116-C-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg µg/kg		3.89E+08	4.6	8.46E+07	No No
116-C-3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	µg/kg		107,743	4.6	23,422	No
116-C-3 Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg		23,943	4.6	5,205	No
116-C-3 Shallow Focused	non-Rad	Silver	7440-22-4	µg/kg		27,530	4.6	5,985	No
116-C-3_Shallow_Focused	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg		_f	4.6	_f	-
116-C-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	42,400	_c	4.6	_c	-
116-C-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	4.6	8.46E+07	No
116-C-3_Shallow_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.27	_6	4.6	_c	-
116-C-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	14	_c	4.6	_c	
116-C-3_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.91	_c	4.6		_
116-C-3_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	18	2,121	4.6	461	No
116-C-3_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.0	60	4.6	13	No
116-C-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g		_6	4.6	6	-
116-C-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g		_5	4.6	_6	-
116-C-3 Shallow Focused	Rad	Uranium-238	U-238	pCi/g	0.86	_6	4.6	_6	
116-C-5_Deep	non-Rad	Chromium	7440-47-3	µg/kg	41,332		93	_c	_
		GII GIII GII	144041,3	M8/ 48	TAJUUL	-	1		
116-C-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,290	6,000°	93	6,000°	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

						STOMP 1D 70:30/100:0			
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg}\cdot m \ or \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	is EPC> Soil Screening Level Protective of Groundwater?
116-C-5_Deep	non-Rad	Mercury	7439-97-6	μg/kg	2,436	1.34E+07	93	144,263	No
116-C-5_Deep	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	2,838		93		_
116-C-5_Deep	Rad	Americium-241	14596-10-2	pCi/g	2.2	_¢	93		-
116-C-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	52	_e	93	^c	_
116-C-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	¢	93	_e	-
116-C-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	73	_ (93	c	-
116-C-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	-¢	93	_c	_
116-C-5_Deep	Rad	Europium-155	14391-16-3	pCi/g	0.48		93		
116-C-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	644	_ c	93		-
116-C-5_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.14	_*	93		-
116-C-5_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.6	_¢	93	_ c	-
116-C-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.4	2,121	93	23	No
116-C-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.0	£	93	_1	_
116-C-5_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.048	_6	93	_1	_
116-C-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.95	_4	93	_*	-
116-C-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,609	_c	10	_6	-
116-C-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	239	6,000°	10	6,000°	No
116-C-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,017	c	10	_6	_
116-C-5 Shallow	non-Rad	Mercury	7439-97-6	μg/kg	32	1.34E+07	10	1.29E+06	No
116-C-5_Shallow	non-Rad	Total U isotopes	Total_U_Isotopes	HE/kg	2,773		10		***
116-C-5 Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.39	_c	10	_ c	
116-C-5 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	_¢	10	_¢	_
116-C-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	_ c	10	_4	-
116-C-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	_c	10		_
116-C-5_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.32		10	-	
116-C-5 Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8		10	_6	_
116-C-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	e	10		-
116-C-5 Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	2,121	10	204	
116-C-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.84		10	_g	No _
116-C-5 Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039		10		_
116-C-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93		10	3	-
116-C-5_Shallow Focused	non-Rad	Arsenic	7440-38-2	_	3,400	10,000	2.4		
116-C-6 Shallow Focused	non-Rad	Barium	7440-38-2	μg/kg μg/kg	44,700	3,89E+08	2.4	4,167 1.62E+08	No No
116-C-6 Shallow Focused	non-Rad	Chromium	7440-47-3	µg/kg	6,700		2.4	c	-
116-C-6_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,300	_6	2.4	_6	_
116-C-6_Shallow_Focused	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,557	_1	2.4		-
116-C-6 Shallow_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.64		2.4	-	-
116-C-6_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.9		2.4		-
116-C-6_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.25		2.4		
116-C-6_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	5.4		2.4		
	Rad			-					
116-C-6_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.53	2 121	2.4		- N-
116-C-6_Shallow_Focused 116-C-6_Shallow_Focused	Rad	Total beta radiostrontium Uranium-233/234	SR-RAD U-233/234	pCi/g	0.46	2,121	2.4	884	No
116-C-6_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.041	3	2.4	3	_
116-C-6_Shallow_Focused	Rad	Uranium-238	U-238	_	0.52	3	2.4	3	
118-E-5_Shallow_Focused 118-B-1 Shallow 1	non-Rad	4-Methyl-2-pentanone	108-10-1	pCi/g	8.0	1.783	37		
118-8-1_Shallow_1 118-8-1_Shallow_1		4-Methyl-2-pentanone Acetone	108-10-1 67-64-1	μg/kg	23	1,783 17,372	37	48 465	No No
118-B-1_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg μg/kg	6.60E+06	17,372	37	465	NO -
118-B-1_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,100	10,000	37	267	Yes
118-8-1 Shallow 1	non-Rad	Barium	7440-39-3	µg/kg	63,100	3.89E+08	37	1.04E+07	No No
118-B-1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	660	5.052700	37	_ c	-
118-B-1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	240	_¢	37	_¢	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	SYOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Mg / m or PCl / m) (kg / m or PCl / m)	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC/g)	Is EPC > Soil Screening Level Protective of Groundwater?
118-B-1 Shallow 1	non-Rad	Boron	7440-42-8	µg/kg	1,900	348,488	37	9,318	No
118-B-1 Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	8,200	_6	37	_c	-
118-B-1 Shallow 1	non-Rad	Cobalt	7440-48-4	μg/kg	10,700	9.52E+06	37	254,499	No
118-B-1 Shallow 1	non-Rad	Copper	7440-50-8	µg/kg	17,900	7.69E+06	37	205,605	No
118-B-1_Shallow_1	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	19	88,471	37	2,366	No
118-B-1_Shallow_1	non-Rad	Iron	7439-89-6	μg/kg	2.41E+07	2.92E+08	37	7.82E+06	Yes
118-B-1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	4,900	_c	37	_6	-
118-B-1_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	411,000	3.89E+08	37	1.04E+07	No
118-B-1_Shallow_1	non-Rad	Mercury	7439-97-6	μg/kg	20	1.34E+07	37	359,114	No
118-8-1_Shallow_1	non-Rad	Methylene chloride	75-09-2	μg/kg	15	14	37	0.36	Yes
118-B-1_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	12,900	3.89E+08	37	1.04E+07	No
118-B-1_Shallow_1	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,703	_1	37	_1	-
118-B-1_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	51,900	_6	37	_c	-
118-B-1_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg	49,100	3.89E+08	37	1.04E+07	No
118-B-1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	3.4	_e	37	_6	-
118-B-1_Shailow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.31	_c	37	_c	-
118-B-1 Shallow 1	Rad	Europium-152	14683-23-9	pCi/g	1.2	_c	37		_
118-B-1 Shallow 1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	2,121	37	57	No
118-B-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	239	60	37	1.6	Yes
118-B-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	_6	37		
118-B-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.57	_6	37	_6	_
The second secon	non-Rad	Aluminum	7429-90-5	µg/kg			6.1		_
118-B-1_Shallow_2				7 21 1				1,639	Yes
118-B-1_Shallow_2	non-Rad	Arsenic	7440-38-2	μg/kg		10,000 3.89E+08	6.1	6.38E+07	No No
118-B-1_Shallow_2	non-Rad	Barium	7440-39-3 7440-41-7	μg/kg		3.89£+08	6.1	6.38E+U/	NO
118-B-1_Shallow_2	non-Rad	Beryllium		µg/kg					
118-B-1_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	5,500	348,488	6.1	57,129	No
118-B-1_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg		_6	6.1	_6	
118-B-1_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	6.1	1.56E+06	No No
118-B-1_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	6.1	1.26E+06	No No
118-B-1_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°		6,000°	
118-B-1_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	6.1	4.79E+07	No
118-B-1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg		e	6.1	_c	
118-B-1_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	6.1	6.38E+07	No
118-B-1_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	11,000	3.89E+08	6.1	6.38E+07	No
118-B-1_Shallow_2	non-Rad	Vanadium	7440-62-2	HE/kg		¢	6.1	_c	-
118-B-1_Shallow_2	non-Rad	Zinc	7440-66-6	μg/kg	43,300	3.89E+08	6.1	6.38E+07	No
118-B-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.22	_c	6.1		
118-B-1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	2,121	6.1	348	No
118-B-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	60	60	6.1	9.8	Yes
118-B-1_Shallow_3	non-Rad	4-Methyl-2-pentanone	108-10-1	μg/kg		1,783	9.8	182	No
118-B-1_Shallow_3	non-Rad	Acetone	67-64-1	µg/kg		17,372	9.8	1,773	No
118-B-1_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg			9.8		-
118-B-1_Shallow_3	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	9.8	1,020	Yes
118-B-1_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	9.8	3.97E+07	No
118-B-1_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg		_e	9.8	c	-
118-B-1_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_c	9.8	_•	_
118-B-1_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	8,900	348,488	9.8	35,560	No
118-B-1_Shallow_3	non-Rad	Carbon tetrachloride	56-23-5	μg/kg		5.0	9.8	0.51	Yes
118-B-1_Shallow_3	non-Rad	Chromium	7440-47-3	μg/kg	9,200	c	9.8	°	
118-B-1_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	9,100	9.52E+06	9.8	971,251	No
118-B-1_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg	18,000	7.69E+06	9.8	784,655	No
118-B-1_Shallow_3	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	54	88,471	9.8	9,028	No
118-B-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	210	6,000°	9.8	6,000°	No
118-B-1_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07	2.92E+08	9.8	2.98E+07	No
118-B-1_Shallow_3	non-Rad		7439-92-1	µg/kg		¢	9.8	_c	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (ig / g or fe/ g · m)	Site Width in Direction of Groundwater Flow		is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No. 7439-96-5	Units		3.89E+08	(m) 9.8	or pCI/g) 3.97E+07	of Groundwater?
118-B-1_Shallow_3	non-Rad	Manganese		µg/kg		3.89E+08 1.34E+07	9.8	1.37E+06	No No
118-B-1_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg		1.346+07	9.8	1.4	Yes
118-B-1_Shallow_3	non-Rad	Methylene chloride Nickel	75-09-2 7440-02-0	μg/kg μg/kg	26 19,000	3.89E+08	9.8	3.97E+07	No
118-B-1_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	49,200	3.652-706	9.8	3.572407	-
118-B-1_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	44,300	3.89E+08	9.8	3.97E+07	No
118-B-1_Shallow_3 118-B-1_Shallow_3	Rad Rad	Cesium-137	10045-97-3	pCi/g	1.5	3.652700	9.8	3.572407	
			SR-RAD	pCi/g	4.4	2,121	9.8	216	No
118-B-1_Shallow_3	Rad	Total beta radiostrontium Tritium	10028-17-8	pCi/g	19	60	9.8	6.1	Yes
118-B-1_Shallow_3 118-B-1_Shallow_4	non-Rad	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	µg/kg	13	400	17	23	No
118-B-1_Shallow_4	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	µg/kg		705	17	41	No
118-B-1_Shallow_4	non-Rad	4.4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg		- 0	17	_c	-
	non-Rad	,	67-64-1	µg/kg		17.372	17	1,010	No
118-B-1_Shallow_4	non-Rad	Acetone	7429-90-5	µg/kg		_ c	17	_==	-
118-B-1_Shallow_4		Aluminum		_			17		
118-B-1_Shallow_4	non-Rad	Arocker-1254	11097-69-1	µg/kg					
118-B-1_Shallow_4	non-Rad	Arsenic	7440-38-2	μg/kg		10,000 3.89E+08	17 17	581 2.26E+07	Yes No
118-B-1_Shallow_4	non-Rad	Barium	7440-39-3	μg/kg			17	2.261+07	No
118-B-1_Shallow_4	non-Rad	Beryllium	7440-41-7	µg/kg		:			
118-B-1_Shallow_4	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg		3.8	17	0.22	Yes
118-B-1_Shallow_4	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_*	17		
118-B-1_Shallow_4	non-Rad	Boron	7440-42-8	µg/kg		348,488	17	20,261	No
118-B-1_Shallow_4	non-Rad	Carbon tetrachloride	56-23-5	µg/kg		5.0	17	0.29	Yes
118-B-1_Shallow_4	non-Rad	Chlordane	57-74-9	μg/kg		1.42E+06	17	82,619	No
118-B-1_Shallow_4	non-Rad	Chromium	7440-47-3	μg/kg		c	17	7.6	
118-B-1_Shallow_4	non-Rad	Cobalt	7440-48-4	μg/kg	8,600	9.52E+06	17	553,387	No
118-B-1_Shallow_4	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	17	447,071	No
118-B-1_Shallow_4	non-Rad	Dalapon	75-99-0	µg/kg		499	17	29	Yes No
118-B-1_Shallow_4	non-Rad	Dieldrin	60-57-1 84-66-2	µg/kg		166 63,829	17	9.7	No No
118-B-1_Shallow_4	non-Rad	Diethylphthalate	84-56-2	µg/kg		88.471	17	5,144	No
118-B-1_Shallow_4	non-Rad	Di-n-butylphthalate	72-20-8	µg/kg		1,219	17	71	No
118-B-1 Shallow 4	non-Rad	Endrin Hexavalent Chromium	18540-29-9	μg/kg μg/kg		6,000°	17	6,000°	No
118-B-1_Shallow_4			7439-89-6	_		2.92E+08	17	1.70E+07	Yes
118-B-1_Shallow_4	non-Rad	Iron Lead	7439-89-6	μg/kg μg/kg	-	2.922108	17	1.705707	-
118-B-1_Shallow_4			7439-96-5			3.89E+08	17	2.26E+07	No
118-B-1_Shallow_4	non-Rad	Manganese	75-09-2	µg/kg		3.896+08	17	0.79	Yes
118-B-1_Shallow_4	non-Rad	Methylene chioride Nickel	7440-02-0	μg/kg μg/kg		3.89£+08	17	2.26E+07	No
118-8-1 Shallow 4 118-8-1 Shallow 4	non-Rad	Phenol	108-95-2	HE/KE		7,909	17	460	No
118-8-1_Shallow_4	non-Rad	Vanadium	7440-62-2	µg/kg			17	- C	-
	non-Rad		7440-66-6	µg/kg		3.89E+08	17	2.26E+07	No
118-B-1_Shallow_4 118-B-1_Shallow_4	Rad	Zinc Cesium-137	10045-97-3	pCi/g		3.852+06	17	2.20€+07	-
	non-Rad	Acetone	67-64-1	µg/kg		17,372	33	525	No
118-B-1_Shallow_5 118-B-1_Shallow_5	non-Rad	Aluminum	7429-90-5	HE/KE		17,372	33	323	-
						10,000	33	302	Yes
118-B-1 Shallow 5	non-Rad	Arsenic	7440-38-2 7440-39-3	μg/kg		10,000 3.89E+08	33	1.18E+07	No No
118-B-1_Shallow_5	non-Rad	Barium	7440-39-3	µg/kg		3.832+08	33	1.100-407	No
118-8-1_Shallow_5		Beryllium		μg/kg			33	_ c	-
118-B-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg					
118-B-1_Shallow_5	non-Rad	Boron	7440-42-8	µg/kg		348,488	33	10,528	No
118-B-1_Shallow_5	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	33	38	Yes
118-B-1_Shallow_5	non-Rad	Chromium	7440-47-3	µg/kg		_c	33		-
118-B-1_Shallow_5	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	33	287,561	No
118-B-1_Shallow_5	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	33	232,315	No
118-B-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	33	6,000°	No
118-B-1_Shallow_5	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	33	8.83E+06	Yes
118-B-1_Shallow_5	non-Rad	Lead	7439-92-1	μg/kg	-	c	33	_ c	-
118-B-1 Shallow 5	non-Rad	Manganese	7439-96-5	µg/kg	302,000	3.89E+08	33	1.18E+07	No

Table 7-1. Comparison of EPCs from 100-8C Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Anelyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\text{\text{Hg}} \) \text{w} \text{or} \text{gr} \text{v} \\ \text{kg} \text{w} \text{or} \text{gr} \text{v} \text{m} \text{or} \text{gr} \text{w} \text{or} \text{gr}	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC//g)	Is EPC > Soil Screening Lavel Protective of Groundwater?
118-B-1 Shallow 5	non-Rad	Mercury	7439-97-6	µg/kg	40	1.34E+07	33	405,766	No
118-B-1 Shallow 5	non-Rad	Methylene chloride	75-09-2	µg/kg	13	14	33	0.41	Yes
118-B-1_Shallow_5	non-Rad	Nickel	7440-02-0	µg/kg	7,400	3.89E+08	33	1.18E+07	No
118-B-1_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg	34,700	c	33	_c	-
118-B-1_Shallow_5	non-Rad	Zinc	7440-66-6	µg/kg	38,600	3.89E+08	33	1.18E+07	No
118-B-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	3.6	_c	33	_c	_
118-B-1_Shallow_5	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	2,121	33	64	No
118-B-1_Shallow_6	non-Rad	2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	93-72-1	µg/kg	12	415	8.6	48	No
118-B-1_Shallow_6	non-Rad	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	µg/kg	62	400	8.6	47	Yes
118-B-1_Shallow_6	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	µg/kg	43	705	8.6	82	No
118-B-1_Shallow_6	non-Rad	Acetone	67-64-1	µg/kg	8.0	17,372	8.6	2,020	No
118-B-1_Shallow_6	non-Rad	Aldrin	309-00-2	µg/kg	0.50	9,878	8.6	1,149	No
118-B-1_Shallow_6	non-Rad	Aluminum	7429-90-5	µg/kg	5.27E+06	_"	8.6	^c	-
118-B-1_Shallow_6	non-Rad	Arsenic	7440-38-2	HE/kg	4,500	10,000	8.6	1,163	Yes
118-B-1_Shallow_6	non-Rad	Barium	7440-39-3	µg/kg	96,400	3.89E+08	8.6	4.52E+07	No
118-B-1_Shallow_6	non-Rad	Beryllium	7440-41-7	HE/kg	360	_c	8.6	-c	-
118-B-1_Shallow_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	HE/kg	430	_c	8.6		
118-B-1_Shallow_6	non-Rad	Boron	7440-42-8	µg/kg	8,800	348,488	8.6	40,522	No
118-B-1_Shallow_6	non-Rad	Butylbenzylphthalate	85-68-7	HE/KE	24	60,438	8.6	7,028	No
118-B-1_Shallow_6	non-Rad	Carbon tetrachloride	56-23-5	µg/kg	7.0	5.0	8.6	0.58	Yes
118-B-1_Shallow_6	non-Rad	Chromium	7440-47-3	µg/kg	7,400	_c	8.6	_c	
118-B-1_Shallow_6	non-Rad	Cobalt	7440-48-4	με/kg	8,500	9.52E+06	8.6	1.11E+06	No
118-B-1_Shallow_6	non-Rad	Copper	7440-50-8	μg/kg	16,900	7.69E+06	8.6	894,142	No
118-B-1_Shallow_6	non-Rad	Dalapon	75-99-0	μg/kg	38	499	8.6	58	No
118-B-1_Shallow_6	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	84	88,471	8.6	10,287	No
118-B-1_Shellow_6	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	280	6,000°	8.6	6,000°	No
118-B-1_Shallow_6	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07	2.92E+08	8.6	3.40E+07	No
118-B-1_Shallow_6	non-Rad	Lead	7439-92-1	µg/kg	5,100	_c	8.6	_¢	_
118-B-1_Shallow_6	non-Rad	Manganese	7439-96-5	µg/kg	322,000	3.89E+08	8.6	4.52E+07	No
118-B-1_Shallow_6	non-Rad	Mercury	7439-97-6	µg/kg	20	1.34E+07	8.6	1.56E+06	No
118-B-1_Shallow_6	non-Rad	Methylene chloride	75-09-2	µg/kg	10	14	8.6	1.6	Yes
118-B-1_Shallow_6	non-Rad	Nickel	7440-02-0	µg/kg	11,500	3.89E+08	8.6	4.52E+07	No
118-B-1_Shallow_6	non-Rad	Phenol	108-95-2	µg/kg	23	7,909	8.6	920	No
118-B-1_Shallow_6	non-Rad	Total_U_isotopes	Total_U_isotopes	μg/kg	2,250		8.6	_1	~
118-B-1_Shallow_6	non-Rad	Vanadium	7440-62-2	µg/kg	49,100	_°	8.6	_c	-
118-B-1_Shallow_6	non-Rad	Zinc	7440-66-6	μg/kg	41,200	3.89E+08	8.6	4.52E+07	No
118-B-1_Shallow_6	Rad	Cesium-137	10045-97-3	pCi/g	0.16	_c	8.6	_c	-
118-B-1_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	5.0	60	8.6	6.9	No
118-B-1_Shallow_6	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	_6	8.6	_1	_
118-B-1_Shallow_6	Rad	Uranium-238	U-238	pCi/g	0.76	_8	8.6	_t	_
118-B-1 Shallow 7	non-Rad	2.4-D(2.4-Dichlorophenoxyacetic acid)	94-75-7	µg/kg	26	400	55	7.3	Yes
118-B-1_Shallow_7	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	µg/kg	27	705	55	13	Yes
118-B-1_Shallow_7	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	26	2,896	55	53	No
118-B-1_Shallow_7	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	15	_c	55	_c	-
118-B-1 Shallow 7	non-Rad	4-Amino-3,5,6-trichloropicolinic acid	1918-02-1	µg/kg	14	1,806	55	33	No
118-B-1_Shallow_7	non-Rad	Acetone	67-64-1	µg/kg	10	17,372	55	316	No
118-B-1_Shallow_7	non-Rad	Alpha-Chlordane	5103-71-9	µg/kg	12	1.42E+06	55	25,837	No
118-B-1_Shallow_7	non-Rad	Aluminum	7429-90-5	µg/kg	6.09E+06	_c	55	-¢	-
118-B-1_Shallow_7	non-Rad	Arsenic	7440-38-2	µg/kg	3,800	10,000	55	182	Yes
118-B-1_Shallow_7	non-Rad	Barium	7440-39-3	μg/kg	145,000	3.89E+08	55	7.07E+06	No
118-B-1_Shallow_7	non-Rad	Beryllium	7440-41-7	µg/kg	310	_c	55	_e	
118-B-1_Shallow_7	non-Rad	Boron	7440-42-8	µg/kg	18,100	348,488	55	6,336	Yes
118-B-1_Shallow_7	non-Rad	Carbon tetrachloride	56-23-5	µg/kg	10	5.0	55	0.091	Yes
118-B-1_Shallow_7	non-Rad	Chromium	7440-47-3	µg/kg	9,500	_c	55	_ 2	-
118-B-1 Shallow 7	non-Rad	Cobalt	7440-48-4	µg/kg	7,600	9.52E+06	55	173,059	No
118-B-1_Shallow_7	non-Rad	Copper	7440-50-8	µg/kg	25,700	7.69£+06	55	139.811	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\text{MG} \) \text{is} \cdot \text{or} \(\text{pCl} \) \text{or} \(\text{pCl} \)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/1000 Contaminant Source Model Soll Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.		(µg/kg or pCl/g)	Kg g	(m)	or pCl/g)	of Groundwater?
118-B-1_Shallow_7	non-Rad	Dalapon	75-99-0	µg/kg		499	55	9.1	Yes
118-B-1_Shallow_7	non-Rad	Dicamba	1918-00-9	μg/kg		1,582	55	29	No
118-B-1_Shallow_7	non-Rad	Dieldrin	60-57-1	μg/kg		166	55	3.0	No
118-B-1_Shallow_7	non-Rad	Diethylphthalate	84-66-2	μg/kg		63,829	55	1,161	No
118-B-1_Shallow_7	non-Rad	Hexavalent Chromium	18540-29-9	με/kg	300	6,000°	55	6,000°	No
118-B-1_Shallow_7	non-Rad	Iron	7439-89-6	µg/kg	1.87E+07	2.92£+08	55	5.32E+06	Yes
118-B-1_Shallow_7	non-Rad	Lead	7439-92-1	μg/kg	12,900	_6	55	_ *	-
118-B-1_Shallow_7	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	55	7.07E+06	No
118-B-1_Shailow_7	non-Rad	Mercury	7439-97-6	μg/kg	20	1.34E+07	55	244,197	No
118-B-1_5hallow_7	non-Rad	Methoxychlor	72-43-5	µg/kg	9.1	c	55	_c	-
118-B-1_Shallow_7	non-Rad	Methylene chloride	75-09-2	µg/kg	10	14	55	0.25	Yes
118-B-1_Shallow_7	non-Rad	Molybdenum	7439-98-7	µg/kg	2,100	563,885	55	10,252	No
118-B-1_Shallow_7	non-Rad	Naphthalene	91-20-3	μg/kg	19	6,798	55	124	No
118-B-1_Shallow_7	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	55	7.07E+06	No
118-B-1_Shallow_7	non-Rad	Total_U_isotopes	Total_U_isotopes	μg/kg	2,170	3	55	_1	
118-B-1_Shallow_7	non-Rad	Vanadium	7440-62-2	µg/kg	40,900	_c	55	_6	
118-B-1_Shallow_7	non-Rad	Zinc	7440-66-6	με/kg	48,700	3.89E+08	55	7.07E+06	No
118-B-1_Shallow_7	Red	Cesium-137	10045-97-3	pCi/g	0.58	_c	55	_6	-
118-B-1 Shallow_7	Rad	Europium-152	14683-23-9	pCi/g	0.10	, c	55		-
118-B-1 Shallow 7	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	_t	55	_6	-
118-B-1_Shallow_7	Rad	Uranium-238	U-238	pCi/g	0.73		55		-
118-B-1 Shallow Focused	non-Rad	Acetone	67-64-1	µg/kg	99	17,372	251	69	Yes
118-B-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg		17,372	251	-6	100
			7440-38-2	µg/kg		10.000	251	40	Yes
118-B-1_Shallow_Focused	non-Rad	Arsenic	7440-39-3		- /	3.89E+08	251	1.55E+06	No
118-B-1 Shallow Focused		Barium	7440-41-7	µg/kg	580	c	251	2.352700	-
118-B-1_Shallow_Focused	non-Rad	Beryllium		HE/kg			251		-
118-B-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	38	_¢			
118-B-1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	24,500	348,488	251	1,389	Yes
118-B-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	280	1,256	251	5.0	Yes
118-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		_t	251	_6	-
118-B-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg		9.52E+06	251	37,936	No
118-B-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	28,000	7.69E+06	251	30,648	No
118-B-1_Shallow_Focused	non-Rad	Dicamba	1918-00-9	μg/kg	9.1	1,582	251	6.3	Yes
118-B-1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.43E+07	2.92E+08	251 251	1.17E+06	Yes
118-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	HE/kg	34,300	_c			-
118-B-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	421,000	3.89E+08	251	1.55E+06	No
118-B-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	251	53,531	No
118-B-1_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	HE/KE		e	251		
118-B-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg		14	251	0.054	Yes
118-B-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	HE/KE		563,885	251	2,247	No
118-B-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	251	1.55E+06	No
118-B-1_Shallow_Focused	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg			251	_'	
118-B-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg		_c	251		-
118-B-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	251	1.55E+06	No
118-8-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g		_c	251		-
118-8-1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.16	_6	251		-
118-B-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	137	60	251	0.24	Yes
118-B-1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	_8	251	_6	-
118-B-1 Shallow_Focused	Rad	Uranium-238	U-238	pCi/g		_6	251	6	
118-B-10 Shallow	Rad	Cobalt-60	10198-40-0	pCi/g		-6	8,6	_4	40
	Rad	Nickel-63	13981-37-8	pCi/g			8.6		
118-B-10_Shallow			7440-38-2	-		10,000	2.1	4,762	No
118-B-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	HE/KE		10,000 3.89E+08	2.1	1,85E+08	No No
118-B-10_Shallow_Focused 118-B-10_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg μg/kg		3.89E+08 1,256	2.1	1.85E+08 598	No No
	Inon-Rad	Cadmium	[/ 440-43-9	I LUE/KE	1 30	1,230	2.1	330	140

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\omega}{\omega} \frac{\omega}{\omega} \cdot \frac{\omega}{\omega}	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC//g)	Is EPC > Soil Screening Level Protective of Groundwater?
118-B-10 Shallow Focused	non-Rad	Lead	7439-92-1	μg/kg	16,200	_c	2.1	G 90/1	-
118-B-10 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg	230	1.34E+07	2.1	6.40E+06	No
118-B-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,500	_c	28	_c	-
118-B-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	298	6,000°	28	6,000°	No
118-B-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	5,200	_c	28	c	-
118-B-3 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	_c	28	_6	_
118-B-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.086	_c	28	_c	
118-B-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.21	c	28	_c	-
118-B-3 Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.18	_c	28	_¢	_
118-B-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,200	10,000	63	158	Yes
118-B-3 Shallow Focused		Barium	7440-39-3	µg/kg	120,000	3.89E+08	63	6.16E+06	No
118-B-3 Shallow Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	57	_c	63	_ c	_
118-B-3 Shallow Focused	non-Rad	Cadmium	7440-43-9	µg/kg	435	1,256	63	20	Yes
118-B-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	17,300	_ c	63	c	-
118-8-3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	43,900	_c	63	_c	
118-B-3 Shallow Focused	non-Rad	Mercury	7439-97-6	μg/kg	34	1.34E+07	63	212.514	No
118-B-3 Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.83	_6	63	c	_
118-B-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	_*	63	_c	-
118-B-3 Shallow Focused	Rad	Europium-152	14683-23-9	pCi/g	1.1	_¢	63	_c	_
118-B-4 Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	250	6.000°	24	6,000°	No
118-B-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.32	0,000	24		-
118-B-4 Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.35		24		_
118-8-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.052	c	23	e	-
118-B-5 Shallow Focused	non-Rad	Arsenic	7440-38-2	_	2,300	10.000	2.3	4,348	No
118-B-5_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg μg/kg	47,400	3.89E+08	2.3	1.69E+08	No
118-B-5 Shallow Focused	non-Rad	Chromium	7440-47-3	µg/kg	8,600	3.65E+06	2.3		-
118-B-5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,000	_c	2.3	_6	-
118-B-6_Deep	non-Rad	Lead	7439-92-1	µg/kg	5,100		6.2	6	_
118-B-6_Deep	Rad	Tritium	10028-17-8	pCi/g	2,780	60	6.2	9.6	Yes
118-B-6 Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,700	- 60	17		ies .
118-B-6_Shallow		Mercury	7439-97-6	µg/kg	80	1.34E+07	17	790,051	No
118-B-6 Shallow	Rad	Tritium	10028-17-8	pCi/g	241	60	17	3.5	Yes
118-B-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,000	10,000	0.20	50,000	No
118-B-7_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	55,100	3.89E+08	0.20	1.95E+09	No
118-B-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	280	1,256	0.20	6,282	No
118-B-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	10,300	_c	0.20	_¢	-
118-B-7_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	22,900	_c	0.20	_*	_
118-B-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	110	1.34E+07	0.20	6.72E+07	No
118-B-7 Shallow Focused	non-Rad	Selenium	7782-49-2	μg/kg	580	9,013	0.20	45,067	No
118-B-7_Shallow_Focused	non-Rad	Silver	7440-22-4	µg/kg	720	27,530	0.20	137,649	No
118-B-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.59E+06	_c	4.2	_c	69
118-B-9_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	695	1.19E+07	4.2	2.83E+06	No
118-B-9 Shallow Focused 118-B-9 Shallow Focused	non-Rad	Arsenic Barkum	7440-38-2 7440-39-3	HE/KE	4,900	10,000	4.2	2,381	Yes
118-B-9_Shallow_Focused	non-Rad	Beryflium	7440-41-7	µg/kg	141,000 177	3.89E+08	4.2	9.26E+07	No
118-B-9_Shallow_Focused	non-Rad			µg/kg		348.488	4.2	82,973	
118-B-9_Shallow_Focused 118-B-9_Shallow_Focused	non-Rad	Boron Cadmium	7440-42-8 7440-43-9	μg/kg μg/kg	9,700 435	1,256	4.2	82,973	No Yes
118-B-9_Shallow_Focused	non-Rad	Chromium	7440-43-3	HE/KE	15,700	1,250	4.2	299	Tes —
118-B-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4		9,500	9.52E+06	4.2	2.27E+06	No
118-B-9_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg μg/kg	20,500	7.69E+06	4.2	2.2/E+06 1.83E+06	No No
118-B-9_Shallow_Focused	non-Rad	Iron	7439-89-6	HE/KE	2.42E+07	2.92E+08	4.2	6.96E+07	No
118-B-9_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	26,900	2.320100	4.2	6.502707	-
118-B-9_Shallow_Focused	_	Manganese	7439-96-5	µg/kg	354,000	3.89E+08	4.2	9.26E+07	No
118-B-9_Shallow_Focused		Mercury	7439-97-6	µg/kg	225	1.34E+07	4.2	3.20E+06	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Wasta Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (\frac{\mu_g}{kg} - m \ \ \ \ \ \ \ \ m \ \ \ \ \ \ \ \ \	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
118-B-9 Shallow Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	400	563,885	4.2	134,258	No
118-B-9 Shallow Focused	non-Rad	Nickel	7440-02-0	µg/kg	14,800	3.89E+08	4.2	9.26E+07	No
118-B-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	71,600	_e	4.2	_e	
118-B-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	με/kg	250,000	3.89E+08	4.2	9.26E+07	No
118-C-1_Shallow_1	non-Rad	Aluminum	7429-90-5	Hg/kg	4.57E+06	_ c	30	_6	-
118-C-1_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	3,300	10,000	30	338	Yes
118-C-1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	56,000	3.89E+08	30	1.31E+07	No
118-C-1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	880		30	_6	
118-C-1_Shallow_1	non-Rad	Boron	7440-42-8	HE/kg	2,100	348,488	30	11,773	No
118-C-1_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	8,600	_c	30	_c	
118-C-1_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	8,400	9.52E+06	30	321,563	No
118-C-1_Shallow_1	non-Rad	Copper	7440-50-8	μg/kg	14,700	7.69E+06	30 30	259,784 9.88E+06	No Yes
118-C-1_Shallow_1	non-Rad	iron	7439-89-6	µg/kg	1.91E+07	2.92E+08	30	9.88£+06	Yes —
118-C-1_Shallow_1	non-Rad	Lead	7439-92-1	μg/kg	4,900	¢			
118-C-1_Shallow_1	non-Rad	Manganese	7439-96-5 7440-02-0	μg/kg	362,000 10,200	3.89E+08 3.89E+08	30 30	1.31E+07 1.31E+07	No No
118-C-1_Shallow_1 118-C-1_Shallow_1	non-Rad	Nickel Total_U_Isotopes	Total U isotopes	µg/kg µg/kg	2,191	3.89£+08	30	1.516+07	- NO
118-C-1_Shallow_1	non-Rad	Vanadium	7440-62-2	HE/KE	41,600	-	30	c	_
			7440-66-6	-	39,100	3.89E+08	30	1.31E+07	No
118-C-1_Shallow_1 118-C-1_Shallow_1	non-Rad Rad	Zinc Cesium-137	10045-97-3	pCi/g	0.30	3.892+08	30	1.31E+0/	NO
	Rad	Europium-152	14683-23-9	pCi/g	0.16		30	_6	_
118-C-1_Shallow_1				-	0.53	_*	30	_4	-
118-C-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g					
118-C-1_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.027		30		
118-C-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.74	_1	30	_4	
118-C-1_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	4.69E+06	_c	17	_c	-
118-C-1_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,800	10,000	17	585	Yes
118-C-1_Shallow_2	non-Rad	Barium	7440-39-3	HE/kg	54,500	3.89E+08	17	2.27E+07	No
118-C-1_Shallow_2	non-Rad	Beryllium	7440-41-7	HE/KE		c			
118-C-1_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	400	_*	17		-
118-C-1_Shallow_2	non-Rad	Boron	7440-42-8 7440-47-3	µg/kg	2,200 6,200	348,488	17	20,379	No
118-C-1_Shallow_2		Chromium		μg/kg			17	556,623	No
118-C-1_Shallow_2	non-Rad	Cobalt	7440-48-4 7440-50-8	µg/kg	7,700 13,400	9.52E+06 7.69E+06	17	449,685	No No
118-C-1_Shallow_2 118-C-1_Shallow_2	non-Rad	Copper Di-n-butylphthalate	84-74-2	μg/kg μg/kg	35	88.471	17	5,174	No
118-C-1 Shallow 2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	240	6.000°	17	6,000°	No
118-C-1_Shellow_2	non-Rad	fron	7439-89-6	µg/kg	1.90E+07	2.92E+08	17	1.71E+07	Yes
118-C-1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	4,300	_c	17		-
118-C-1 Shellow 2	non-Rad	Manganese	7439-96-5	μg/kg	359,000	3.89E+08	17	2.27E+07	No
118-C-1 Shallow 2	non-Rad	Methylene chloride	75-09-2	μg/kg	14	14	17	0.79	Yes
118-C-1 Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,400	3.89E+08	17	2.27E+07	No
118-C-1_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	46,300	_6	1.7	_e	
118-C-1 Shallow 2	non-Rad	Zinc	7440-66-6	µg/kg	40,200	3.89E+08	17	2.27E+07	No
118-C-1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	12	_e	17	_6	
118-C-1 Shallow 2	Rad	Cesium-137	10045-97-3	pCi/g	0.15	_c	17	_e	-
118-C-1_Shallow_2	Radi	Cobalt-60	10198-40-0	pCi/g	1.5	_c	17	_c	-
118-C-1 Shallow 2	Rad	Europium-152	14683-23-9	pCi/g	0.28	_c	17	c	_
118-C-1_Shellow_2	Rad	Nickel-63	13981-37-8	pCi/g	36	_ c	17	_c	
118-C-1 Shellow 2	Rad	Tritium	10028-17-8	pCi/g	7.7	60	17	3.5	Yes
118-C-1 Shallow_3	non-Rad	Acetone	67-64-1	µg/kg	11	17,372	42	418	No
118-C-1_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg	5.54E+06	_c	42	_¢	_
118-C-1_Shallow_3	non-Rad	Aroclor-1254	11097-69-1	µg/kg	62	_c	42	-6	-
118-C-1 Shallow 3	non-Rad	Arsenic	7440-38-2	µg/kg	5,800	10,000	42	240	Yes
118-C-1_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	78,400	3.89E+08	42	9.35E+06	No
118-C-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	180	_¢	42 .	_c	-

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
118-C-1 Shallow 3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg			42	_c	-
118-C-1 Shallow 3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	140	."	42	_6	-
118-C-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	140		42	_¢	-
118-C-1 Shallow 3	non-Rad	Beryllium	7440-41-7	μg/kg	700		42	_6	_
118-C-1_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		-6	42	_ c	-
118-C-1 Shallow 3	non-Rad	Boron	7440-42-8	µg/kg		348.488	42	8,377	No
118-C-1_Shallow_3	non-Rad	Butylbenzylphthalate	85-68-7	μg/kg	38	60,438	42	1,453	No
118-C-1_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	120	1,256	42	30	Yes
118-C-1_Shallow_3	non-Rad	Chromium	7440-47-3	μg/kg	9,200		42	_6	
118-C-1_Shallow_3	non-Rad	Chrysene	218-01-9	µg/kg	210	^E	42		-
118-C-1_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	8,900	9.52E+06	42	228,804	No
118-C-1_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg	45,200	7.69E+06	42	184,847	No
118-C-1_Shallow_3	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg		88,471	42	2,127	No
118-C-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	µg/kg	320	3.89E+08	42	9.35E+06	No
118-C-1_Shallow_3	non-Rad	indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	46	_c	42	6	
118-C-1_Shallow_3	non-Rad	iron	7439-89-6	µg/kg	2.23E+07	2.92E+08	42	7.03E+06	Yes
118-C-1_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg		_°C	42	6	
118-C-1_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	42	9.35E+06 322,857	No No
118-C-1_Shallow_3	non-Rad	Mercury	7439-97-6 75-09-2	μg/kg		1.34E+07 14	42	0.33	Yes
118-C-1_Shallow_3	non-Rad	Methylene chloride Molybdenum	7439-98-7	μg/kg μg/kg		563,885	42	13,555	No
118-C-1_Shallow_3 118-C-1_Shallow_3	non-Rad	Nickel	7440-02-0	HE/KE		3.89E+08	42	9.35E+06	No
118-C-1 Shallow_3	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	42	9.35E+06	No
118-C-1_Shallow_3	non-Rad	Total U isotopes	Total U Isotopes	µg/kg			42	_'	-
118-C-1_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg			42	_c	-
118-C-1_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	42	9.35E+06	No
118-C-1_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g		_c	42	_c	_
118-C-1_Shallow_3	Rad	Cobalt-60	10198-40-0	pCi/g		_c	42	_c	-
118-C-1_Shallow_3	Rad	Europium-152	14683-23-9	pCi/g		_6	42	_*	-
118-C-1 Shallow 3	Rad	Total beta radiostrontium	SR-RAD	pCi/g		2,121	42	51	No
118-C-1_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g		_6	42	_1	_
118-C-1_Shallow_3	Rad	Uranium-238	U-238	pCi/g			42	8	-
118-C-1 Shallow 4	non-Rad	Acetone	67-64-1	µg/kg		17,372	32	536	No
118-C-1 Shallow 4	non-Red	Aluminum	7429-90-5	µg/kg		_c	32	c	_
118-C-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	µg/kg		_c	32	_c	_
118-C-1 Shallow 4	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	32	309	Yes
118-C-1 Shallow 4	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	32	1.20E+07	No
118-C-1 Shallow 4	non-Rad	Benzene	71-43-2	µg/kg		5.0	32	0.15	Yes
118-C-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	130	c	32	_6	-
118-C-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	83	c	32	_¢	
118-C-1 Shallow 4	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	110	_c	32	-c	-
118-C-1 Shallow 4	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	92	_¢	32	-c	-
118-C-1_Shallow_4	non-Rad	Beryllium	7440-41-7	µg/kg		_c	32	_c	-
118-C-1 Shallow_4	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_c	32	_6	_
118-C-1 Shallow 4	non-Rad	Boron	7440-42-8	µg/kg		348,488	32	10,756	No
118-C-1 Shallow 4	non-Rad	Chromium	7440-47-3	µg/kg		540,400	32	_ c	-
118-C-1_Shallow_4	non-Rad	Chrysene	218-01-9	µg/kg	4		32	_6	
118-C-1 Shallow 4	non-Rad	Cobalt	7440-48-4	µg/kg		9.52E+06	32	293,774	No
118-C-1_Shallow_4 118-C-1 Shallow 4	non-Rad	Copper	7440-50-8	μg/kg		7.69E+06	32	237,334	No
118-C-1_Shallow_4	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	32	2,731	No
118-C-1 Shallow 4	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	32	1.20E+07	No
118-C-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		c	32	_c	-
118-C-1 Shallow 4	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	32	9.03E+06	Yes
118-C-1_Shallow_4	non-Rad	Lead	7439-92-1	µg/kg		_e	32	_c	_

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mathred{Mg}{k_a} m \text{ or } \frac{\mathred{PC}}{a} \cdot m})	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (ug/kg	is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCl/g)	/~8 8	(m)	or pCl/g)	of Groundwater?
118-C-1_Shallow_4	non-Rad	Manganese	7439-96-5	μg/kg	350,000	3.89E+08	32	1.20E+07	No
118-C-1_Shallow_4	non-Rad	Methylene chloride	75-09-2	µg/kg		14	32	0.42	Yes
118-C-1_Shallow_4	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	32	1.20E+07	No
118-C-1_Shallow_4	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	32	1.20E+07	No
118-C-1_Shallow_4	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg			32		-
118-C-1_Shallow_4	non-Rad	Vanadium	7440-62-2	µg/kg	55,400	_c	32	'	_
118-C-1_Shallow_4	non-Rad	Xylenes (total)	1330-20-7	µg/kg		16,314	32	504	No
118-C-1_Shallow_4		Zinc	7440-66-6	µg/kg		3.89E+08	32	1.20E+07	No
118-C-1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	1.2	c	32	c	
118-C-1_Shailow_4	Rad	Europium-152	14683-23-9	pCi/g	0.16	_c	32	_6	
118-C-1_Shallow_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.54		32	_8	-
118-C-1 Shallow 4	Rad	Uranium-238	U-238	pCi/g	0.67	_3	32	_5	-
118-C-1 Shallow Focused	non-Rad	Acetone	67-64-1	µg/kg	24	17,372	84	206	No
118-C-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg		_c	84	_c	-
118-C-1 Shallow Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg	22	_6	84	_6	
118-C-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	84	119	Yes
118-C-1 Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	84	4.62E+06	No
118-C-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg		_ c	84	_6	
118-C-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_c	84	_c	
	non-Rad	Boron	7440-42-8	µg/kg		348,488	84	4,139	No
118-C-1_Shallow_Focused 118-C-1 Shallow Focused	non-Rad	Carbon tetrachloride	56-23-5	µg/kg		5.0	84	0.059	Yes
118-C-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg		- 6	84	_ c	_
118-C-1 Shallow Focused	non-Rad	Cobalt	7440-48-4	µg/kg	-	9.52E+06	84	113,043	No
118-C-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg		7.69E+06	84	91,326	No
118-C-1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	µg/kg		63,829	84	758	No
118-C-1 Shallow Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	84	1,051	No
118-C-1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg		2.92E+08	84	3.47E+06	Yes
118-C-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg		_c	84	-6	_
118-C-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg		3.89E+08	84	4.62E+06	No
118-C-1 Shallow Focused	non-Rad	Mercury	7439-97-6	µg/kg		1.34E+07	84	159,511	No
118-C-1 Shallow Focused	non-Rad	Methylene chloride	75-09-2	µg/kg		14	84	0.16	Yes
118-C-1 Shallow Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	84	4.62E+06	No
118-C-1 Shallow Focused	non-Rad	Phenol	108-95-2	µg/kg		7,909	84	94	No
118-C-1_Shallow_Focused	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg			84		-
118-C-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	46,400	_c	84	_c	
118-C-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg		3.89E+08	84	4.62E+06	No
118-C-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g		c	84		
118-C-1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g		_c	84	-	-
118-C-1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g		_1	84	_6	-
	Rad	Uranium-238	U-238	pCi/g		-1	84		
118-C-1_Shallow_Focused				_			9.8		-
118-C-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g		t			
118-C-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g			9.8	_6	
118-C-3:2_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	Hg/kg		6,000°	4.3	6,000°	No
118-C-3:2_Deep_Focused	non-Rad	Lead	7439-92-1	HE/K		_c	4.3	_c	-
118-C-3:2_Deep_Focused	non-Rad	Total_U_isotopes	Total_U_isotopes	HE/K	2,110	_1	4.3	_'	-
118-C-3:2_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	2.7	e	4.3	c	-
118-C-3:2 Deep Focused	Rad	Cesium-137	10045-97-3	pCi/g		_c	4.3	_c	-
118-C-3:2_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g		_c	4.3	_*	PA
118-C-3:2_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g			4.3	_¢	-
	Rad	Europium-154	15585-10-1	pCi/g		-	4.3		
118-C-3:2_Deep_Focused				_			4.3		
118-C-3:2_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g					
118-C-3:2_Deep_Focused	Rad	Plutonium-238	13981-16-3	pCi/g		_¢	4.3		
118-C-3:2_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g		_5	4.3	_6	-
118-C-3:2_Deep_Focused	Rad	Technetium-99	14133-76-7	pCi/g	1.2	2.2	4.3	0.51	Yes

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\begin{matrix} \mu g \\ kg \end{matrix}, m \ or \frac{pCi}{g} \cdot m \right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pC//g)	Is EPC > Soil Screening Level Protective of Groundwater?
118-C-3:2_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	38	2,121	4.3	493	No
118-C-3:2_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.81	_8	4.3	_1	77
118-C-3:2_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.050	_6	4.3		40
118-C-3:2_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.70	3	4.3		-
118-C-3:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	_			60	c	
			100.0						
118-C-3:3_Shallow_Focused				-	5.1	_c	60		-
118-C-3:3_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg		_c	60	¢	**
118-C-3:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg		10,000	60	166	Yes
118-C-3:3_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg		3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	75		60	_e	-
118-C-3:3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg		_c	60	_c	
118-C-3:3_5hallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		_6	60	_6	_
118-C-3:3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg		_e	60		**
118-C-3:3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg		_c	60	c	-
118-C-3:3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	65	_c	60	_c	-
118-C-3:3_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,400	348,488	60	5,779	No
118-C-3:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	16,400	_¢	60	_6	-
118-C-3:3_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	100	_c	60		=
118-C-3:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	7,400	9.52E+06	60	157,848	No
118-C-3:3_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	38,300	7.69E+06	60	127,523	No
118-C-3:3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg		88,471	60	1,467	No
118-C-3:3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg		6,000°	60	6,000°	No
118-C-3:3_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	52	c	60	_6	
118-C-3:3_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.27E+07	2.92E+08	60	4.85E+06	Yes
118-C-3:3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	7,900	_c	60	_c	-
118-C-3:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	297,000	3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	800	1.34E+07	60	222,734	No
118-C-3:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused 118-C-3:3_Shallow_Focused	non-Rad	Selenium Total_U_isotopes	7782-49-2	µg/kg	370 2,025	9,013	60	149	Yes
			Total_U_isotopes	µg/kg					
118-C-3:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	48,700	_c	60	_c	***
118-C-3:3 Shallow Focused	non-Rad	Zinc 223/224	7440-66-6	μg/kg	50,200	3.89E+08	60	6.45E+06	No
118-C-3:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	_3	60	6	**
118-C-3:3_5hallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.051	_1	60	e	_
118-C-3:3_5hallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	!	60	6	-
118-C-4_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	2,500	10,000	5.2	1,923	Yes
118-C-4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	44,800	3.89£+08	5.2	7.48E+07	No
118-C-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg			5.2	c	-
118-C-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg		_<	5.2		-
118-C-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	46	c	5.2	c	_
118-C-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	45	c	5.2	c	-
118-C-4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		_,	5.2	_c	-
118-C-4_Shallow	non-Rad	non-Rad Chromium 7440-47-3 μg/kg 7,800 _ 5.2 _ 5.2		_c					
118-C-4_Shallow	non-Rad Chrysene 218-01-9 µg/kg 444 5.2		_c	-					
118-C-4_Shallow	non-Rad Di-n-butylphthalate		84-74-2	µg/kg	34	88,471	5.2	17,014	No
118-C-4_Shallow			206-44-0	μg/kg		3.89E+08	5.2	7.48E+07	No
118-C-4_Shallow	non-Rad Indeno(1,2,3-cd)pyrene 193-39-5 μg/kg 19 5.2		5.2	C	-				
118-C-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	20,100	_°	5.2	_c	-
118-C-4_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	12	14	5.2	2.6	Yes
118-C-4_Shallow	non-Rad	Pyrene	129-00-0	µg/kg		3.89E+08	5.2	7.48E+07	No
118-C-4_Shallow	non-Rad	Toluene	108-88-3	µg/kg	1.7	4,437	5.2	853	No
118-C-4_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	1,795	_1	5.2	_'	

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to 5TOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (ug/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		Kg g	(m)	or pG/g)	of Groundwater?
118-C-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	_6	5.2	_6	-
118-C-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	_6	5.2	_8	_
120-B-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.70E+06	_c	11	_c	IV0
120-B-1_Shallow_Focused	non-Rad	Aroclor-1221	11104-28-2	μg/kg	9.8	17	11	1.6	Yes
120-8-1_Shallow_Focused	non-Rad	Arocior-1260	11096-82-5	µg/kg	170	_c	11	_*	- 00
120-B-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	5,000	10,000	11	943	Yes
120-B-1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	135,000	3.89E+08	11	3.67E+07	No
120-B-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	310	_c	11		-
120-B-1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	8,100	348,488	11	32,876	No
120-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	273,000	_c	11		-
120-B-1_Shallow_Focused	non-Rad	Cobait	7440-48-4	μg/kg	9,100	9.52E+06	11	897,949	No
120-B-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	19,800	7.69E+06	11	725,436	No
120-B-1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	3,800	_c	11	_c	va .
120-B-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	HE/kg	380	6,000°	11	6,000°	No
120-B-1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.32E+07	2.92E+08	11	2.76E+07	No
120-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	15,400	_c	11		-
120-B-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	336,000	3.89E+08	11	3.67E+07	No
120-B-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	90	1.34E+07	11	1.27E+06	No
120-B-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	2,300	563,885	11	53,197	No
120-B-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	HE/KE	13,800	3.89£+08	11	3.67E+07	No
120-B-1_Shallow_Focused 120-B-1_Shallow_Focused	non-Rad	Silver Vanadium	7440-22-4 7440-62-2	HE/KE	230 55,900	27,530	11	2,597	No
				µg/kg					
120-B-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	72,200	3.89£+08	11	3.67E+07	No
126-B-3_Shallow 126-B-3_Shallow	non-Rad	1,2,4-Trichlorobenzene 2-Methylnaphthaiene	120-82-1 91-57-6	μg/kg μg/kg	52 122	330 2,896	87 87	3.8	Yes Yes
126-B-3 Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	55	84,728	87	969	No.
126-B-3_Shallow	non-Rad	Anthracene	120-12-7	µg/kg		4.27E+07	87	488,282	No
126-B-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	17	c	87	c	-
126-B-3 Shailow	non-Rad	Arsenic	7440-38-2	µg/kg	5,698	10,000	87	114	Yes
126-B-3_Shallow	non-Rad	Barium	7440-39-3	µg/kg	95,187	3.89E+08	87	4.45E+06	No
126-B-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	348	_c	87	_c	-
126-B-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	269	_c	87		-
126-B-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	191	_c	87	_c	-
126-B-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	244	c	87	_c	_
126-B-3 Shallow	non-Rad	Beryllium	7440-41-7	Hg/kg	550	_¢	87	c	
126-B-3 Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	55	_c	87	_ c	
126-8-3_Shallow	non-Rad	Boron	7440-42-8	µg/kg	4,975	348,488	87	3,987	Yes
126-B-3_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	356	1,256	87	14	Yes
126-B-3_Shallow	non-Rad	Carbazole	86-74-8	µg/kg	75	537	87	6.1	Yes
126-B-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,526	_c	87	c	-
126-B-3_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	122	c	87	_c	
126-B-3 Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	11,663	9.52E+06	87	108,905	No
126-B-3 Shallow	non-Rad	Copper	7440-50-8	µg/kg	23,531	7.69E+06	87	87,982	No
126-B-3_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	88	_°	87	T _c	-
126-B-3_Shallow	non-Rad	Dibenzofuran	132-64-9	μg/kg	99	3,353	87	38	Yes
126-B-3 Shallow	non-Rad Di-n-butylphthalate 84-74-2 µg/kg 35 88,471 87		1,012	No					
126-B-3_Shallow	non-Rad Fluoranthene 206-44-0 µg/kg 204 3.89E+08		87	4.45E+06	No				
126-B-3_Shallow			87	1,112	No				
126-B-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	162	_6	87		_
126-B-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,968	_c	87	_"	-
126-B-3_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	472,105	3.89E+08	87	4.45E+06	No
126-B-3_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	28	1.34E+07	87	153,671	No
126-B-3_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	1,227	563,885	87	6,452	No
126-B-3_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg	118	6,798	87	78	Yes
126-B-3_Shallow	non-Rad	INICKEI	7440-02-0	µg/kg	15,632	3.89E+08	87	4.45E+06	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu g}{ka} \cdot m \ or \frac{\mu Ci}{m} \cdot m \)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC> Soil Screening Level Protective of Groundwater?
126-B-3 Shallow	non-Rad	n-Nitrosodiphenylamine	86-30-6	µg/kg	103	819	87	or pCi/g) 9.4	Yes
126-B-3 Shallow	non-Rad	Pyrene	129-00-0	µg/kg	180	3.89E+08	87	4.45E+06	No No
126-B-3 Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	67.526	3.032700	87	4.435408	
126-B-3 Shallow	non-Rad	Zinc	7440-66-6	µg/kg	63,252	3.89E+08	87	4.45E+06	No
128-B-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	16	3.632+06	95	4.432406	NO
128-B-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	HE/KE	68		95		-
128-B-2 Shallow	non-Rad	Arsenic	7440-38-2	1 41 41	2.918	10.000	95	105	Yes
128-B-2_Shallow	non-Rad	Barium	7440-39-3	μg/kg μg/kg	71.594	3.89E+08	95	4.09E+06	No No
128-B-2 Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	941	3.85(100	95	4.052406	
128-B-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	206	_*	95	_¢	alter
128-B-2_Shallow	non-Rad	Boron	7440-42-8	_	2,750	348,488			
128-B-2 Shallow	non-Rad	Butylbenzylphthalate	85-68-7	μg/kg μg/kg	17	60,438	95 95	3,668 636	No No
128-B-2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	190	1,256	95	13	Yes
128-B-2_Shallow	non-Rad	Chlordane	57-74-9	µg/kg	24	1.42E+06	95	14,958	No No
128-B-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	14,448		95	24,330	
128-B-2 Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8.253	9.52E+06	95	100.192	No
128-B-2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,009	7.69E+06	95	80,943	No
128-B-2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	36	88.471	95	931	No
128-B-2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	22	3.89E+08	95	4.09E+06	No
128-B-2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	32,438	_c	95	_ c	-
128-8-2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	357,286	3.89E+08	95	4.09E+06	No
128-B-2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	22	1.34E+07	95	141,377	No
128-B-2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	1,077	563,885	95	5,936	No
128-B-2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,421	3.89E+08	95	4.09E+06	No
128-B-2_Shallow	non-Rad	Phenoi	108-95-2	µg/kg	22	7,909	95	83	No
128-B-2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	31	3.89E+08	95	4.09E+06	No
128-B-2_Shallow	non-Rad	Toluene	108-88-3	µg/kg	4.0	4,437	95	47	No
128-B-2_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	µg/kg	2,006	_'	95	_'	-
128-B-2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	45,088	_c	95	c	-
128-B-2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	45,328	3.89E+08	95	4.09E+06	No
128-B-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.31	_c	95	_c	
128-B-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	_1	95	_8	
128-B-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.68	*	95	_6	-
128-B-3_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	6.53E+06	_c	15	_¢	
128-B-3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	µg/kg	190	_6	15	_e	-
128-B-3_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,375	10,000	15	649	Yes
128-B-3_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	87,728	3.89E+08	15	2.53E+07	No
128-B-3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	24	_6	15	_c	-
128-B-3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	17	_c	15	_6	-
128-B-3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	32	e	15	_c	
128-B-3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	30	_e	15	_c	-
128-B-3 Shallow 1	non-Rad	Beryllium	7440-41-7	µg/kg	351		15		
128-B-3_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	51		15		
128-B-3 Shallow 1	non-Rad	Boron Boron	7440-42-8	1 41 4	2,753	348.488	15	22,629	No No
128-B-3 Shallow_1	non-Rad	Chromium	7440-42-8	µg/kg µg/kg	14,012	348,488	15	22,629	No
128-B-3_Shallow_1	non-Rad	Chrysene		-					
128-B-3 Shallow 1	non-Rad	Cobalt	218-01-9	µg/kg	38	- C	15		-
128-B-3_Shallow_1	non-Rad	Copper	7440-48-4 7440-50-8	µg/kg	6,532 16,975	9.52E+06 7.69E+06	15	618,069	No
128-B-3 Shallow 1	non-Rad	Di-n-butylphthalate	7440-50-8 84-74-2	μg/kg μg/kg	16,9/5	7.69E+06 88.471	15 15	499,326 5,745	No No
128-B-3_Shallow_1	non-Rad	Endrin Endrin	72-20-8	µg/kg	2.4	1,219	15	5,745	No No
128-B-3_Shallow_1	non-Rad	Fluoranthene	206-44-0	µg/kg	20	3,89E+08	15	2.53E+07	No No
128-B-3 Shallow 1	non-Rad	Iron	7439-89-6	µg/kg	1.59E+07	2.92E+08	15	1.90E+07	No
128-B-3_Shallow_1	non-Rad	Lead	7439-92-1	HE/KE	5,471	2.321.00	15		-
128-B-3 Shallow 1		Manganese	7439-96-5	µg/kg	310,456	3.89E+08	15	2.53E+07	No
128-B-3_Shallow_1		Mercury	7439-97-6	µg/kg		1.34E+07	15	872,134	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\mu B \cdots \mu cr \frac{pCl}{m}\). \(\mu\)	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (us/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	The second secon	(kg · m or g · m)	(m)	or pCI/g)	of Groundwater?
128-B-3_Shallow_1	non-Rad	Methylene chloride	75-09-2	µg/kg		14	15	0.88	Yes
128-B-3_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	13,472	3.89E+08	15	2.53E+07	No
128-B-3_Shallow_1	non-Rad	Pyrene	129-00-0	µg/kg	31	3.89E+08	15	2.53E+07	No
128-B-3_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	34,972	_c	15	-¢	<u>-</u>
128-B-3_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg	40,336	3.89E+08	15	2.53E+07	No
128-B-3_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg	8.79E+06	_c	46	_*	-
128-B-3_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	17	_6	46	_¢	-
128-B-3_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	5,473	10,000	46	219	Yes
128-B-3_Shallow_2	non-Rad	Barium	7440-39-3	μg/kg	126,504	3.89E+08	46	8.51E+06	No
128-B-3_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	450	_c	46	_c	-
128-B-3_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	6,364	348,488	46	7,626	No
128-B-3_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	520	1,256	46	27	Yes
128-B-3_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	36,702	_ c	46	c	-
128-B-3_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,114	9.52E+06	46	208,277	No
128-B-3_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	38,045	7.69E+06	46	168,263	No
128-B-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	544	6,000°	46	6,000°	No
128-B-3 Shallow 2	non-Rad	Iron	7439-89-6	µg/kg	1.98E+07	2.92E+08	46	6.40E+06	Yes
128-B-3_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	40,282	_c	46	_c	
128-B-3 Shallow 2	non-Rad	Manganese	7439-96-5	µg/kg	398,092	3.89E+08	46	8.51E+06	No
128-B-3 Shallow 2	non-Rad	Mercury	7439-97-6	µg/kg	72	1.34E+07	46	293,892	No
128-B-3 Shallow 2	non-Rad	Methylene chloride	75-09-2	µg/kg	12	14	46	0.30	Yes
128-B-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	870	563,885	46	12,339	No
128-B-3_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	17,711	3.89E+08	46	8.51E+06	No
128-B-3_Shallow_2	non-Rad	Silver	7440-22-4	µg/kg	241	27,530	46	602	No
128-B-3_Shallow_2	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	431,000	1.00E+06 ^d	46	1.00E+06 ^d	No
128-B-3_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	41,172		46	_c	-
128-B-3 Shallow 2	non-Rad	Zinc	7440-66-6	μg/kg	109,940	3.89E+08	46	8.51E+06	No
128-B-3 Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	12	_c	40	c	-
128-B-3 Shallow 3	non-Rad	4.4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg		_e	40	_6	
128-B-3 Shallow 3	non-Rad	Acetone	67-64-1	µg/kg	15	17,372	40	436	No
128-B-3 Shallow 3	non-Rad	Aldrin	309-00-2	µg/kg	0.37	9,878	40	248	No
128-B-3_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg		c	40		
128-B-3_Shallow_3	non-Rad	Aroclor-1254	11097-69-1	µg/kg	29		40	_c	_
				_					
128-B-3_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	µg/kg	6.9		40	_¢	-
128-B-3_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	3,947	10,000	40	251	Yes
128-B-3_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	101,772	3.89E+08	40	9.77E+06	No
128-B-3_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	47	_6	40	¢	
128-B-3_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	53	c	40	_¢	-
128-8-3_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	55	_e	40	_¢	-
128-B-3_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	43	_6	40	_*	
128-B-3_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	425	_c	40	*	-
128-B-3_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	64	_c	40	_*	-
128-B-3_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	2,624	348,488	40	8,756	No
128-B-3 Shallow 3	non-Rad	Cadmium	7440-43-9	µg/kg	590	1,256	40	32	Yes
128-B-3_Shallow_3	non-Rad	Chlordane	57-74-9	µg/kg	0.33	1.42E+06	40	35,705	No
128-B-3_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	15,508	_c	40		-
128-B-3_Shallow_3	non-Rad								
128-B-3 Shallow 3			239,152	No					
128-B-3_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	18,016	7.69E+06	40	193,207	No
128-B-3 Shallow 3	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	56	_¢	40	_c	
128-B-3 Shallow 3	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	29	88,471	40	2,223	No
128-B-3_Shallow_3	non-Rad	Fluoranthene	206-44-0	µg/kg	62	3.89E+08	40	9.77E+06	No.
128-B-3 Shallow 3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	293	6.000°	40	6,000"	No
128-B-3_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	50	6,000	40	6,000	-
	Tiron-verd	I	235-35-3	P6/ 46	1 30	**		-	_

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (Mg	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Is EPC > Soil Screening Level Protective of Groundwater?
128-B-3 Shallow 3	non-Rad	Lead	7439-92-1	µg/kg	8.356	, c	40	_ c	er en en crementen i
128-B-3 Shallow 3	non-Rad	Manganese	7439-96-5	μg/kg	380.095	3.89E+08	40	9.77E+06	No
128-B-3 Shallow 3	non-Rad	Mercury	7439-97-6	µg/kg	48	1.34E+07	40	337,459	No
128-B-3_Shallow_3	non-Rad Methoxychlor 72-43-5 µg/kg 3.6		_6	40	_c				
128-8-3_Shallow_3			75-09-2	µg/kg	16	14	40	0.34	Yes
128-B-3_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	4,700	563,885	40	14,168	No
128-B-3_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	13,571	3.89E+08	40	9.77E+06	No
128-B-3_Shallow_3	non-Rad	Pyrene	129-00-0	µg/kg	87	3.89E+08	40	9.77E+06	No
128-B-3_Shallow_3	non-Rad	Silver	7440-22-4	µg/kg	300	27,530	40	692	No
128-B-3_Shallow_3	non-Rad	Toluene	108-88-3	µg/kg	1.8	4,437	40	111	No
128-8-3_Shallow_3	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	258,000	1.00E+06 ^d	40	1.00E+06 ^d	No
128-8-3_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	41,734	c	40	_c	-
128-B-3_Shallow_3	non-Rad	Xylenes (total)	1330-20-7	μg/kg	2.5	16,314	40	410	No
128-B-3_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	49,543	3.89E+08	40	9.77E+06	No
128-C-1_Shallow	non-Rad	Antimony	7440-36-0	μg/kg	858	1.19E+07	45	262,067	No
128-C-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	140	_c	45	_¢	and the second s
128-C-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	μg/kg	11	_c	45		_
128-C-1_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	4,270	10,000	45	220	Yes
128-C-1_Shallow	non-Rad	Barium	7440-39-3	μg/kg	60,255	3.89E+08	45	8.57E+06	No
128-C-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	29	_6	45	_c	-
128-C-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	31	_e	45	-c	-
128-C-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	32	_c	45	_c	_
128-C-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	30	_c	45	_c	_
128-C-1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	784	_*	45	_c	_
128-C-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	1,682	_¢	45	_c	-
128-C-1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	9,818	348,488	45	7,676	Yes
128-C-1 Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	990	1,256	45	28	Yes
128-C-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	17,242	c	45	_c	**
128-C-1_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	38	_c	45		679
128-C-1 Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,402	9.52E+06	45	209.653	No
128-C-1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	48,008	7.69E+06	45	169,375	No
128-C-1 Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	40	88,471	45	1.949	No
128-C-1 Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	53	3.89E+08	45	8.57E+06	No
128-C-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	21	_°	45	_c	-
128-C-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	30,352	_c	45	c	-
128-C-1_Shallow	non-Rad	Lithium	7439-93-2	µg/kg	6,737	_*	45	_e	_
128-C-1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	315,815	3.89E+08	45	8.57E+06	No
128-C-1 Shallow	non-Rad		7439-97-6	µg/kg	50	1.34E+07	45	295,834	No
128-C-1 Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	1,900	563,885	45	12,420	No
128-C-1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,617	3.89E+08	45	8.57E+06	No
128-C-1_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	43	3.89E+08	45	8.57E+06	No
128-C-1_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	1,300	9,013	45	199	Yes
128-C-1_Shallow	non-Rad	Silver	7440-22-4	µg/kg	6,600	27,530	45	606	Yes
128-C-1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	39,675	_6	45	_c	-
128-C-1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	70,414	3.89E+08	45	8.57E+06	No
128-C-1_Shallow_Focused	non-Rad			37	270	Yes			
128-C-1_Shallow_Focused	non-Rad			37	1.05E+07	No			
128-C-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	36	_	37	_c	-
128-C-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	1,797	1,256	37	34	Yes
128-C-1_Shallow_Focused	non-Rad	non-Rad Chromium 7440-47-3 µg/kg 19,600 _c 37		_c	-				
128-C-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	61,300	_*	37	c	-
128-C-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	200	1.34E+07	37	362,996	No
128-C-1_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	150	27,530	37	744	No
128-C-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	44,700	1.00E+06 ^d	37	1.00E+06 ^d	No
1607-B1_Shallow_Focused	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	1.0	836,540	6.3	132,784	No

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\(\frac{\mu}{e} \) \text{m} \text{ or } \frac{\muCl}{e} \) \text{m}	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwrater Protection Scaled to Site Length in Direction of GW Flow (ug/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCi/g)	(kg mor g m)	(m)	or pCl/g)	of Groundwater?
1607-B1_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg		_c	6.3	¢	-
1607-B1_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	µg/kg	0.52	1.7	6.3	0.26	Yes
1607-B1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.95E+06	_c	6.3	_c	-
1607-B1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	11	_c	6.3	_c	-
1607-B1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,200	10,000	6.3	1,587	Yes
1607-B1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	138,000	3.89E+08	6.3	6.17E+07	No
1607-B1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	270	_c	6.3	_c	-
1607-B1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	98	_c	6.3	_e	-
1607-B1 Shallow Focused	non-Rad	Boron	7440-42-8	μg/kg	2,400	348,488	6.3	55,316	No
1607-B1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,600	_c	6.3	_6	-
1607-B1 Shallow Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,900	9.52E+06	6.3	1.51E+06	No
1607-B1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	20,200	7.69E+06	6.3	1.22E+06	No
1607-B1_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	26	88,471	6.3	14,043	No
1607-B1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	300	6,000°	6.3	6,000°	No
1607-B1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.30E+07	2.92E+08	6.3	4.64E+07	No
1607-B1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	8,600	c	6.3	c	-
1607-B1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	304,000	3.89E+08	6.3	6.17E+07	No
1607-B1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	230	1.34E+07	6.3	2.13E+06	No
1607-B1 Shallow Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	570	563,885	6.3	89,505	No
1607-B1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,300	3.89E+08	6.3	6.17E+07	No
1607-B1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	42,200	_¢	6.3	_c	-
1607-81 Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	93,900	3.89E+08	6.3	6.17E+07	No
1607-B1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	_¢	6.3	_c	-
1607-B10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	4.5	_c	15	_c	_
1607-B10 Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	57	_c	15	_6	-
1607-B10 Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4.500	10.000	15	685	Yes
1607-B10 Shallow	non-Rad	Barium	7440-39-3	µg/kg	82,400	3.89E+08	15	2.66E+07	No
1607-B10 Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		5.05€100	15	_6	-
1607-B10_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	160	1,256	15	86	Yes
1607-B10_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	25,200	£,250	15		-
1607-B10 Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	30	3.89E+08	15	2.66E+07	No
1607-B10_Shallow	non-Rad	Lead	7439-92-1	µg/kg	17,900		15	2.002.07	_
1607-B10_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	380	1.34E+07	15	919,922	No
1607-B10_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	27	3.89E+08	15	2.66E+07	No No
1607-B10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.054	3.65£706	15	2.002+07	-
1607-B10_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	5,900	10,000	10	980	Yes
1607-B11_Shallow	non-Rad	Barium	7440-39-3	µg/kg	76,500	3.89E+08	10	3.81E+07	No No
1607-B11_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	HE/KE		5.052+00	10	_ ·	
	_			_			10		-
1607-B11_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	14,000			¢	
1607-B11_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,300	c	10	c	
1607-B11_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	30	1.34E+07	10	1.32E+06	No
1607-B2:1_Shallow	non-Rad	2,4,5-T(2,4,5-Trichlorophenoxyacetic acid)	93-76-5	µg/kg	47	941	36	26	Yes
1607-B2:1_Shallow	non-Rad	2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	93-72-1	μg/kg		415	36	12	Yes
1607-B2:1_Shallow	non-Rad	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	μg/kg	110	400	36 36	20	Yes Yes
1607-B2:1_Shallow		2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	μg/kg	250	705	36	81	Yes
1607-B2:1_Shallow			487	Yes No					
1607-B2:1_Shallow 1607-B2:1_Shallow			333,272	No					
1607-B2:1_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	36	280	Yes
1607-B2:1_Shallow	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	36	1.09E+07	No No
1607-B2:1_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg		3.032400	36	1.032+07	-
	non-Rad	Boron	7440-42-8	µg/kg	19,810	348.488	36	9,762	Yes
1607-B2:1_Shallow 1607-B2:1_Shallow	non-Rad	Cadmium	7440-42-8	µg/kg µg/kg	19,810	1,256	36	35	Yes
1607-B2:1_Shallow	non-Rad	Chromium	7440-47-3	μg/kg		1,230	36	- 33	res
1607-B2:1_Shallow	non-Rad	Cobalt	7440-48-4	_		9.52E+06	36	266,618	No
TOO1-PZ:1_Shallow	non-Rad		/440-45-4	µg/kg	12,403	3.326400	36	215,396	140

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu_g}{\pi_c} \text{in or } \frac{\rho l}{\rho l} \text{in or } \	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCi/g)	1-9	(m)	or pCi/g)	of Groundwater?
1607-B2:1_Shallow	non-Rad	Dibenzofuran	132-64-9	µg/kg	34	3,353	36	94	No
1607-B2:1_Shallow	non-Rad	Diethylphthalate	84-66-2	µg/kg		63,829	36	1,788	No
1607-B2:1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	21	88,471 1,082	36 36	2,478	No No
1607-B2:1_Shallow 1607-B2:1_Shallow	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol) Endosulfan I	88-85-7 959-98-8	μg/kg μg/kg	1.7	7,192	36	201	No
1607-B2:1_Shallow	non-Rad	Endrin	72-20-8	µg/kg	1.7	1,219	36	34	No
1607-B2:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	269	6,000°	36	6,000°	No
1607-B2:1 Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		-¢	36	c	-
1607-B2:1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	9,814	_ c	36	_c	
1607-B2:1_Shallow			7439-96-5	_		3.89E+08	36	1.09E+07	No
1607-B2:1_Shallow	non-Rad	Manganese Mercury	7439-97-6	µg/kg		1.34E+07	36	376,215	No
1607-B2:1 Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg μg/kg		563,885	36	15,795	No
1607-B2:1_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg		6,798	36	190	No
1607-B2:1_Shallow	non-Rad	Nickel	7440-02-0	μg/kg		3.89E+08	36	1.09E+07	No
1607-82:1_Shallow	non-Rad	Silver	7440-22-4	μg/kg		27,530	36	771	No
1607-B2:1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	54,015		36		-
1607-B2:1 Shailow	non-Rad	Zinc	7440-66-6	µg/kg	67,465	3.89E+08	36	1.09E+07	No
1607-B2:2_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg		2,896	240	12	Yes
1607-B2:2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg		_c	240	c	-
1607-B2:2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	17		240	c	_
1607-B2:2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	μg/kg		1.42E+06	240	5,919	No
1607-B2:2_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg		-c	240	_c	_
1607-B2:2 Shallow	non-Rad	Antimony	7440-36-0	µg/kg		1.19E+07	240	49,554	No
1607-B2:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg			240		-
1607-B2:2 Shallow	non-Rad	Aroclor-1260	11096-82-5	μg/kg		_c	240		
1607-B2:2 Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	4.098	10.000	240	42	Yes
1607-B2:2 Shallow	non-Rad	Barium	7440-39-3	µg/kg	- 7	3.89E+08	240	1.62E+06	No
1607-B2:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg		_c	240	_c	-
1607-B2:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg		_c	240	_6	-
1607-82:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg			240		
1607-82:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg			240		
	non-Rad		7440-41-7	_			240		
1607-B2:2_Shallow		Beryllium		μg/kg					
1607-B2:2_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg		3.8	240	0.016	Yes
1607-B2:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		c	240	_c	-
1607-B2:2_Shallow	non-Rad	Boron	7440-42-8 7440-43-9	µg/kg		348,488 1,256	240 240	1,451 5.2	Yes Yes
1607-B2:2_Shallow 1607-B2:2_Shallow	non-Rad	Cadmium Chlordane	57-74-9	µg/kg		1,256 1.42E+06	240	5,2	Ves No
1607-B2:2_Shallow	non-Rad	Chromium	7440-47-3	μg/kg μg/kg	10,679	1.42t+06	240	2,919	No -
1607-B2:2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	64	-	240		_
1607-B2:2_Shallow	non-Rad	Cobalt	7440-48-4			9.52E+06	240	39,643	No
1607-B2:2_Shallow	non-Rad		7440-48-4	µg/kg	51,480	7.69E+06	240	32,027	Yes
1607-B2:2_Shallow	non-Rad	Copper Dibenz[a,h]anthracene	53-70-3	μg/kg μg/kg		7.69£+06	240	32,027 _°	Tes
1607-B2:2_Shallow	non-Rad		84-74-2	-		88,471	240	368	No
1607-B2:2_Shallow 1607-B2:2_Shallow	non-Rad	Di-n-butylphthalate Endosulfan I	959-98-8	μg/kg μg/kg		88,4/1 7,192	240	368	No No
1607-B2:2_Shallow	non-Rad	Endosulfan II	33213-65-9	µg/kg		7,192	240	30	No No
1607-B2:2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	240	1.62E+06	No
1607-B2:2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg		c	240	1.02E+00	-
1607-B2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg		6,000°	240	6,000 ⁴	No
1607-B2:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	25	c	240	-¢	_
	non-Rad	Iron				2.92E+08	240	1.22E+06	Yes
1607-B2:2_Shallow 1607-B2:2_Shallow	non-Rad	Lead	7439-89-6 7439-92-1	μg/kg μg/kg	10,463	2.926+08	240	1.22£+06	Yes
	_			_			240		
1607-B2:2_Shallow	non-Rad	Lithium	7439-93-2	µg/kg	8,515	2.005.00		_6	-
1607-B2:2_Shallow	non-Rad	Manganese Mercury	7439-96-5 7439-97-6	μg/kg μg/kg		3.89E+08 1.34E+07	240	1.62E+06 55,939	No No
1607-B2:2_Shallow	non-Rad								

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	Analyte				Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\partial g}{\partial c} \tau \tau \frac{\partial C}{\partial c} \tau \tau \tau	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg	
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units		\n8 8 /	(m)	or pCi/g)	of Groundwater?
1607-B2:2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg		563,885	240	2,349	No
1607-B2:2_Shallow	non-Rad	Naphthalene	91-20-3 7440-02-0	µg/kg		6,798 3.89E+08	240	28 1.62E+06	No
1607-B2:2_Shallow 1607-B2:2_Shallow	non-Rad	Nickel Phenol	108-95-2	µg/kg	17	7,909	240	33	No No
1607-B2:2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg μg/kg	66	3.89E+08	240	1.62E+06	No No
1607-B2:2_Shallow	non-Rad	Strontium	7440-24-6	µg/kg	47,600	3.89E+08	240	1.62E+06	No
1607-B2:2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	46,182		240		-
1607-B2:2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	52,128	3.89E+08	240	1.62E+06	No
1607-B2:2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	_c	240	2.022700	
1607-B2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.90	2,121	240	8.8	No
1607-B7_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,100	10,000	12	813	Yes
1607-B7_Shallow	non-Rad	Barium	7440-39-3	µg/kg	80,800	3.89E+08	12	3.16E+07	No
1607-B7_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	2.1	3.8	12	0.31	Yes
1607-B7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	31	5.6	12	0.31	
1607-B7_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	236	1,256	12	102	Yes
1607-B7_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,300	1,236 _c	12		
	non-Rad		7439-92-1	_	43,000		12		_
1607-B7_Shallow		Lead		μg/kg		c	12	_6	
1607-B7_Shallow	non-Rad	Selenium	7782-49-2	μg/kg	699	9,013		733	No
1607-B7_Shallow	non-Rad	Silver	7440-22-4	µg/kg	96 27	27,530	12	2,238	No
1607-B8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg		c	14	e	
1607-B8_Shallow	non-Rad	Arocior-1254	11097-69-1	µg/kg		_c	14	_c	-
1607-B8_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	4,100	10,000	14	699	Yes
1607-88_Shallow	non-Rad	Barium	7440-39-3	μg/kg	67,300	3.89E+08	14	2.72E+07	No
1607-88_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg		1,256	14	88	Yes
1607-88_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,500		14	c	_
1607-B8_Shallow	non-Rad	Lead	7439-92-1	μg/kg		_°	14	_6	-
1607-B8_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	103	1.34E+07	14	939,221	No
1607-B8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	_c	14	_c	-
1607-B9_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	23	4.27E+07	28	1.52E+06	No
1607-B9_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,511	10,000	28	357	Yes
1607-B9_Shallow	non-Rad	Barium	7440-39-3	µg/kg	63,408	3.89E+08	28	1.39E+07	No
1607-B9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	163	_¢	28	_6	-
1607-B9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	78	_c	28	-c	
1607-B9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	115	_c	28	_c	_
1607-B9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	115	_c	28	_c	-
1607-B9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	41	_c	28	_¢	_
1607-B9 Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	479	1,256	28	45	Yes
1607-B9 Shallow	non-Rad	Carbazole	86-74-8	µg/kg	25	537	28	19	Yes
1607-B9 Shallow	non-Rad	Chromium	7440-47-3	µg/kg			28		-
1607-B9_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	213		28	c	_
1607-B9_Shallow	non-Rad	Dieldrin	60-57-1			166	28	5.9	
1607-B9_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg μg/kg		88.471	28	3,160	No No
1607-B9 Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	314	3.89E+08	28	1.39E+07	No
1607-B9 Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg		3.032400	28		-
1607-B9_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,831		28		_
							28		
1607-B9_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	68	1.34E+07		479,674	No
1607-89 Shallow			1.39E+07 322	No Vac					
1607-89_Shallow	non-Rad	Selenium Aroclor-1254	7782-49-2 11097-69-1	μg/kg		9,013	148	322	Yes
600-232_Shallow	11401 11111			μg/kg					-
600-232_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg		10,000	148	68	Yes
600-232_Shallow	non-Rad	Barium	7440-39-3	μg/kg		3.89E+08	148	2.63E+06	No
600-232_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg		_*	148		-
600-232_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg		~°	148		-
600-232_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg		_c	148	_6	-
600-232 Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	117	"c	148	_ c	

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCl/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* \(\begin{align*} & \mu & m & or \frac{\rho L}{\rho L} & m & or \end{align*} \)	Site Width in Direction of Groundwater Flow ^b (m)	or pCi/g)	Is EPC > Soil Screening Level Protective of Groundwater?
600-232 Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg		(ag g	148	or pu/E)	of Groundwater?
600-232 Shallow	non-Rad	Cadmium	7440-43-9	µg/kg		1,256	148	8.5	Yes
600-232_Shallow		100-Rad Carbazole			Yes				
600-232_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,520	c	148	5.0 _c	i es
600-232 Shallow	non-Rad	Chrysene	218-01-9	µg/kg	178	_6	148		
600-232 Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	18		148		
						-¢			-
600-232_Shallow	non-Rad	Di-n-octylphthalate	117-84-0	µg/kg	28	_6	148	_'	~
600-232_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg		3.89E+08	148	2.63E+06	No
600-232_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	43	c	148	_ c	-
600-232_Shallow	non-Rad	Lead	7439-92-1	μg/kg	4,394	_6	148	_6	-
600-232_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	20	1.34E+07	148	90,872	No
600-232_Shallow	non-Rad	Pentachlorophenol	87-86-5	µg/kg	150	330	148	2.2	Yes
600-232_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	227	3.89E+08	148	2.63E+06	No
600-232_Shallow	non-Rad	Total petroleum hydrocarbons	TPH	µg/kg	10,059	1.00E+06 ^d	148	1.00E+06 ^d	No
600-233_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	47	4.27E+07	2.1	2.03E+07	No
600-233_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	51,200	3.89E+08	2.1	1.85E+08	No
600-233_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	290	~c	2.1	_6	-
600-233_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	180	c	2.1	6	-
600-233_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	220	_c	2.1	c	_
600-233_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	180	_c	2.1	_c	_
600-233_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	410	_c	2.1	_6	-
600-233 Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	140	_¢	2.1	_¢	_
600-233_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,500	348,488	2.1	165,947	No
600-233_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	µg/kg	28	60,438	2.1	28,780	No
600-233 Shallow Focused	non-Rad	Cadmium	7440-43-9	µg/kg	280	1,256	2.1	598	No
600-233 Shallow Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,900		2.1		-
600-233_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	340	_c	2.1	-6	-
600-233 Shallow Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,300	9.52E+06	2.1	4.53E+06	No
600-233 Shallow Focused	non-Rad	Copper	7440-50-8	µg/kg	11,500	7.69E+06	2.1	3.66E+06	No
600-233 Shallow Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	61		2.1		-
600-233 Shallow Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	68	88,471	2.1	42,129	No
600-233 Shallow Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	690	3.89E+08	2.1	1.85E+08	No
600-233_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	110	3.032700	2.1	1.052-00	-
600-233_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,900	_c	2.1		-
600-233 Shallow Focused		Manganese	7439-96-5	µg/kg		3.89E+08	2.1	1,85E+08	No
600-233 Shallow Focused	non-Rad	Nickel	7440-02-0	µg/kg		3.89E+08	2.1	1.85E+08 1.85E+08	No No
600-233_Shallow_Focused	non-Rad	Pyrene		129-00-0 µg/kg 510 3.89E+08 2.1 1.85E+08		No			
600-233 Shallow Focused	non-Rad	Selenium	145-00-0 1947-8 510 5.57-00 2.1 Lostruo 7782-49-2 1847-8 3,000 9,013 2.1 4,292		No				
600-233_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	37,000	_6	2.1	_°	-
600-233 Shallow Focused	non-Rad		7440-66-6	µg/kg	33,800	3.89E+08	2.1	1.85E+08	No

Notes

a. ECF-HANFORD-15-0129. A 70:30 source distribution is used for analytes with Kd \geq 2 mU/g; a 100:0 source distribution is used for analytes with Kd \leq 2 mU/g. These soil screening levels protective of groundwater and protective of surface water are provided on a unit-length basis. To apply these soil screening levels divide the listed value by a representative length across the waste site decision unit in the general direction of groundwater flow to obtain the soil screening level for evaluation use. (Note that this scaling is not applicable to soil cleanup levels for ersenic, hexavelent chromium, or TPH-diesel.)

b. ECF-100-BC5-15-0119, Determination of Representative Lineal Dimensions for 100-BC Operable Unit Waste Site Decision Units for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations .

c. The calculated soil screening level for the analyte is considered non-representative because: (1) breakthrough is simulated within 1,000 years for some soil columns while other soil columns (a majority) show no breakthrough (breakthrough defined as concentrations exceeding 1E-04 µg/L or activity exceeding 1E-04 PCI/L).

d. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

e. The soil screening level for hexavalent chromium is set to 6,000 µg/kg based on the evaluation in ECF-Hanford-11-0165; this value is not dependent on waste site size.

f. No Value Required. Uranium is not modeled because uranium was not detected at levels above Hanford site background at any remediated waste site in 100-BC, therefore it is not a soil COPC.

Table 7-1. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model St	oil Screening Levels Protective of Groundwater
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		Table 7-2. companion of all companion of all companion of the							
D. A. A. C.						STOMP 1D 70:30/100:0			
						Contaminant Source Model Soil		STOMP 1D 70:30/100:0 Contaminant	
				100		Screening Level for Groundwater	Site Width in	Source Model Soil Screening Level for	
					Exposure Point	Protection*	Direction of	Groundwater Protection Scaled to Site	
	Analyte			1.96	Concentration	$\left(\frac{\mu g}{ka} \cdot m \text{ or } \frac{pCi}{a} \cdot m\right)$	Groundwater Flow ^b	Length in Direction of GW Flow (µg/kg	s EPC > Soil Screening Level Protective
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	(µg/kg or pCi/g)	$\left(\overline{kg} \cdot m \text{ or } \overline{g} \cdot m\right)$	(m)	or pCi/g)	of Groundwater?

g. Uranium isotopes are accounted for by converting from activity-based (pCi/g) to mass-based (µg/kg) concentrations and summing to provide a mass-based total uranium exposure point concentration (identified as Total_U_Isotopes), as described in ECF-100BC1-11-0012, Computation of Exposure Point Concentrations for the 100-BC-1 Source Operable Units.

h. A drinking water standard is not available.

^{- =} Not applicable or no value

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	45	, c	5.86E+01	_c	-
100-B-1_Shallow_1	non-Rad	Diethylphthalate	84-66-2	μg/kg	48	c	5.86E+01	_c	044
100-B-1_Shallow_1	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	24	c	5.86E+01	_c	
100-B-1_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	1.5	c	8.03E+01	C	
100-B-1_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	1.3	c	8.03E+01	_c	
100-B-1 Shallow 2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	2.9	_d	8.03E+01	d	
100-B-1_Shallow_2	non-Rad	Aldrin	309-00-2	μg/kg	1.1	7,293	8.03E+01	91	No
100-B-1_Shallow_2	non-Rad	Alpha-BHC	319-84-6	μg/kg	1.0	_ c	8.03E+01	_c	-
100-B-1_Shallow_2	non-Rad	Alpha-Chlordane	5103-71-9	μg/kg	1.3	24,442	8.03E+01	304	No
100-B-1_Shallow_2	non-Rad	Anthracene	120-12-7	μg/kg	92	_c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	μg/kg	33	d	8.03E+01	_d	800
100-B-1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	120	_c	8.03E+01	c	***
100-B-1 Shallow 2	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	30	_c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	55	c	8.03E+01	 C	
100-B-1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	65	c	8.03E+01		
		beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	_	6.8				***
100-B-1_Shallow_2	non-Rad			μg/kg		c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	41	c	8.03E+01	c	
100-B-1_Shallow_2	non-Rad	Carbazole	86-74-8	μg/kg	33	c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Chlordane	57-74-9	μg/kg	1.3	24,442	8.03E+01	304	No
100-B-1_Shallow_2	non-Rad	Chrysene	218-01-9	μg/kg	150	_c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Dibenzofuran	132-64-9	μg/kg	22	c	8.03E+01	c	
100-B-1_Shallow_2	_	Dieldrin	60-57-1	μg/kg	1.3	58	8.03E+01	0.72	Yes
100-B-1_Shallow_2	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	35	c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Endosulfan I	959-98-8	μg/kg	1.3	4.2	8.03E+01	0.052	Yes
100-B-1_Shallow_2	_	Endosulfan II	33213-65-9	μg/kg	1.5	4.2	8.03E+01	0.052	Yes
100-B-1_Shallow_2	non-Rad		72-20-8	μg/kg	1.5	3.0	8.03E+01	0.037	Yes
100-B-1_Shallow_2		Fluoranthene	206-44-0	μg/kg	700	C	8.03E+01	_c	-
100-B-1_Shallow_2	non-Rad	Fluorene	86-73-7	μg/kg	35	c	8.03E+01	_c	
100-B-1_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	μg/kg	1.2	3.8	8.03E+01	0.048	Yes
100-B-1_Shallow_2	non-Rad	Heptachlor	76-44-8	μg/kg	5.5	2.0	8.03E+01	0.025	Yes
100-B-1_Shallow_2		Heptachlor epoxide	1024-57-3	μg/kg	1.4	_d	8.03E+01	d	
100-B-1_Shallow_2		Methoxychlor	72-43-5	μg/kg	5.6	_d	8.03E+01	d	de de la constant de
100-B-1_Shallow_2	non-Rad		129-00-0	μg/kg	750	c	8.03E+01	_c	
100-B-1_Shallow_Focused		Arsenic	7440-38-2	μg/kg	5,400	1.05E+07	3.78E+01	276,836	No
100-B-1_Shallow_Focused		Barium	7440-39-3	μg/kg	92,800	_c	3.78E+01	_c	
100-B-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	103	_c	3.78E+01	_c	-
100-B-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	72	500	3.78E+01	13	Yes
100-B-1_Shallow_Focused		Chromium	7440-47-3	μg/kg	15,900	d	3.78E+01	d	-
100-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	7,800	d	3.78E+01	_d	-

	Analyte	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site			Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
Waste Site/Decision Unit	non-Rad	Analyte Name Total petroleum hydrocarbons	CAS No.	Units μg/kg	(μg/kg or pCi/g) 9,520		3.78E+01	or bci/8)	
100-B-1_Shallow_Focused 100-B-1_Shallow_Focused		Cesium-137	10045-97-3	pCi/g	0.13		3.78E+01	_ c	
100-B-1_Shallow_Focused		Aluminum	7429-90-5	μg/kg	6.44E+06	_d	2.00E+00	_d	
		Antimony	7440-36-0	μg/kg	1,400	c	2.00E+00	c	
100-B-11_Shallow_Focused		Arsenic	7440-38-2	μg/kg	4,900	1.05E+07	2.00E+00	5.23E+06	. No
100-B-11_Shallow_Focused 100-B-11_Shallow_Focused		Barium	7440-38-2	μg/kg	74,400	1.03L+07	2.00E+00	c	
100-B-11_Shallow_Focused		Beryllium	7440-41-7	µg/kg	82	_c	2.00E+00	_c	
		Boron	7440-42-8	µg/kg	5,700	_c	2.00E+00	_c	
100-B-11_Shallow_Focused 100-B-11_Shallow_Focused		Cadmium	7440-43-9	μg/kg	224	500	2.00E+00	250	No
100-B-11_Shallow_Focused	_	Chromium	7440-47-3	μg/kg	11,600	d	2.00E+00	d	
100-B-11_Shallow_Focused		Cobalt	7440-48-4	µg/kg	8,100	c	2.00E+00	c	
100-B-11_Shallow_Focused	non-Rad		7440-50-8	μg/kg	20,500	93,717	2.00E+00	46,859	No
100-B-11_Shallow_Focused	non-Rad		7439-89-6	μg/kg	2.46E+07	2.61E+07	2.00E+00	1.31E+07	Yes
100-B-11_Shallow_Focused		Lead	7439-92-1	µg/kg	16,600	_d	2.00E+00	d	
100-B-11 Shallow Focused		Manganese	7439-96-5	μg/kg	318,000	c	2.00E+00	_c	
100-B-11 Shallow Focused		Mercury	7439-97-6	μg/kg	18	80,585	2.00E+00	40,293	No
100-B-11_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	551	c	2.00E+00	c	
100-B-11_Shallow_Focused		Nickel	7440-02-0	μg/kg	12,200	3.89E+08	2.00E+00	1.95E+08	No
100-B-11_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	55,000	-c	2.00E+00	_c	
100-B-11 Shallow Focused	non-Rad	Zinc	7440-66-6	μg/kg	65,000	3.89E+08	2.00E+00	1.95E+08	No
100-B-11_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	c	2.00E+00	c	No
100-B-14:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.23	c	1.84E+01	_c	
100-B-14:1_Deep_Focused	Rad	Carbon-14	14762-75-5	pCi/g	275	c	2.00E+00	_c	
100-B-14:1 Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	336	6,000 ^e	4.46E+01	6,000 ^e	No
100-B-14:1 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	_c	4.46E+01	c	
100-B-14:2 Shallow 1	non-Rad	2-Methylnaphthalene	91-57-6	μg/kg	34	c	5.92E+01	_c	
100-B-14:2 Shallow 1	non-Rad	Aluminum	7429-90-5	μg/kg	5.93E+06	d	5.92E+01	_d	
100-B-14:2 Shallow 1	non-Rad		7440-38-2	μg/kg	3,350	1.05E+07	5.92E+01	176,763	No
100-B-14:2_Shallow_1	non-Rad		7440-39-3	μg/kg	256,706	c	5.92E+01	_c	
100-B-14:2_Shallow_1		Benzo(a)pyrene	50-32-8	μg/kg	21	c	5.92E+01	_c	
100-B-14:2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	23	c	5.92E+01	_c	
100-B-14:2 Shallow 1		Benzo(k)fluoranthene	207-08-9	μg/kg	22	_c	5.92E+01	c	
100-B-14:2 Shallow 1		Beryllium	7440-41-7	μg/kg	378	c	5.92E+01	c	
100-B-14:2_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	μg/kg	0.60	_c	5.92E+01	c	
100-B-14:2_Shallow_1		Boron	7440-42-8	μg/kg	2,700	_c	5.92E+01	c	
100-B-14:2_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg	135	500	5.92E+01	8.4	Yes
100-B-14:2_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	8,821	d	5.92E+01	_d	
100-B-14:2_Shallow_1	non-Rad	Chrysene	218-01-9	μg/kg	22	_c	5.92E+01	_c	
100-B-14:2_Shallow_1	non-Rad		7440-48-4	μg/kg	8,306	_ c	5.92E+01	_c	

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste Sit Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	Strace Water STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-14:2_Shallow_1	non-Rad	Copper	7440-50-8	μg/kg	17,751	93,717	5.92E+01	1,583	Yes
100-B-14:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	277	6,000 ^e	5.92E+01	6,000 ^e	No
100-B-14:2_Shallow_1		Iron	7439-89-6	μg/kg	2.08E+07	2.61E+07	5.92E+01	441,045	Yes
100-B-14:2_Shallow_1		Lead	7439-92-1	μg/kg	5,727	d	5.92E+01	_d	SH-Ga
100-B-14:2_Shallow_1	non-Rad	Lithium	7439-93-2	μg/kg	7,236	_c	5.92E+01	c	
100-B-14:2_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	348,187	_c	5.92E+01	_c	
100-B-14:2_Shallow_1	non-Rad	Mercury	7439-97-6	μg/kg	36	80,585	5.92E+01	1,361	No
100-B-14:2_Shallow_1	non-Rad	Molybdenum	7439-98-7	μg/kg	685	_ C	5.92E+01	_c	
100-B-14:2_Shallow_1	non-Rad	Naphthalene	91-20-3	μg/kg	24	c	5.92E+01	_c	67-96
100-B-14:2_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	11,448	3.89E+08	5.92E+01	6.57E+06	No
100-B-14:2_Shallow_1	non-Rad	Strontium	7440-24-6	μg/kg	59,947	c	5.92E+01	_c	
100-B-14:2_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	48,661	c	5.92E+01	_c	ww.
100-B-14:2 Shallow 1	non-Rad	Zinc	7440-66-6	μg/kg	44,656	3.89E+08	5.92E+01	6.57E+06	No
100-B-14:2_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.31	_c	5.92E+01	c	
100-B-14:2_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	2.1	c	1.22E+01	_c	
100-B-14:2_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	7.6	c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	6.7	d	1.22E+01	d	
100-B-14:2_Shallow_2		Acenaphthene	83-32-9	μg/kg	197	C C	1.22E+01	_c	
100-B-14:2_Shallow_2		Aldrin	309-00-2	μg/kg	2.4	7,293	1.22E+01	598	No
100-B-14:2_Shallow_2		Aluminum	7429-90-5	μg/kg	5.99E+06	_d	1.22E+01	_d	
100-B-14:2_Shallow_2	non-Rad	Anthracene	120-12-7	μg/kg	345	_c	1.22E+01	_c	-
100-B-14:2_Shallow_2	non-Rad	Antimony	7440-36-0	μg/kg	640	, C	1.22E+01	_c	
100-B-14:2_Shallow_2		Aroclor-1254	11097-69-1	μg/kg	81	d	1.22E+01	_d	
100-B-14:2 Shallow 2		Aroclor-1260	11096-82-5	μg/kg	5.3	d	1.22E+01	_d	
100-B-14:2_Shallow_2		Arsenic	7440-38-2	μg/kg	4,093	1.05E+07	1.22E+01	857,737	No
100-B-14:2_Shallow_2	non-Rad		7440-39-3	μg/kg	74,830	c	1.22E+01	c	
100-B-14:2_Shallow_2		Benzo(a)anthracene	56-55-3	μg/kg	703	_c	1.22E+01	C	
100-B-14:2 Shallow 2		Benzo(a)pyrene	50-32-8	μg/kg	655	_c	1.22E+01	C	-
100-B-14:2_Shallow_2		Benzo(b)fluoranthene	205-99-2	μg/kg	534	_c	1.22E+01	_c	
100-B-14:2 Shallow 2		Benzo(k)fluoranthene	207-08-9	µg/kg	564	_c	1.22E+01	_c	
100-B-14:2_Shallow_2		Beryllium	7440-41-7	μg/kg	508	c	1.22E+01	_ c	
100-B-14:2_Shallow 2		Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	27	c	1.22E+01		
	non-Rad			_			1.22E+01	C	
100-B-14:2_Shallow_2	non-Rad		7440-42-8	µg/kg	3,600	c	1.22E+01 1.22E+01		Voe
100-B-14:2_Shallow_2	non-Rad	Carbazole Carbazole	7440-43-9 86-74-8	μg/kg	202 214	500 c	1.22E+01 1.22E+01	41 _c	Yes
100-B-14:2_Shallow_2	non-Rad			μg/kg		c	1.22E+01	2,003	No No
100-B-14:2_Shallow_2 100-B-14:2_Shallow_2	non-Rad	Chlordane Chromium	57-74-9 7440-47-3	μg/kg μg/kg	1.2 10,992	24,442 d	1.22E+01 1.22E+01	2,003	NO
100-B-14:2_Shallow_2			218-01-9	_	830	c	1.22E+01	C conta	
				μg/kg					
100-B-14:2_Shallow_2	non-Rad	Copair	7440-48-4	μg/kg	8,290	c	1.22E+01	_c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	Decision Units to STOMP 1	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-14:2_Shallow 2	non-Rad	Copper	7440-50-8	μg/kg	23,864	93,717	1.22E+01	7,682	Yes
100-B-14:2_Shallow_2		Dibenz[a,h]anthracene	53-70-3	μg/kg	318	_c	1.22E+01	c	
100-B-14:2_Shallow_2		Dibenzofuran	132-64-9	μg/kg	82	_c	1.22E+01	_c	
100-B-14:2_Shallow_2		Dieldrin	60-57-1	μg/kg	3.6	58	1.22E+01	4.7	No
100-B-14:2_Shallow_2	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	28	_c	1.22E+01	_c	
100-B-14:2_Shallow_2	non-Rad	Di-n-octylphthalate	117-84-0	μg/kg	95	_c	1.22E+01	c	
100-B-14:2_Shallow_2		Fluoranthene	206-44-0	μg/kg	1,336	_c	1.22E+01	_c	
		Fluorene	86-73-7	μg/kg	130	_c	1.22E+01	c	
100-B-14:2_Shallow_2							1.22E+01		No
100-B-14:2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	418	6,000 ^e		6,000 ^e	
100-B-14:2_Shallow_2		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	423	c	1.22E+01	c	
100-B-14:2_Shallow_2		Iron	7439-89-6	μg/kg	2.09E+07	2.61E+07	1.22E+01	2.14E+06	Yes
100-B-14:2_Shallow_2		Lead	7439-92-1	μg/kg	35,014	d	1.22E+01	d	
100-B-14:2_Shallow_2	non-Rad	Lithium	7439-93-2	μg/kg	6,800	c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	Manganese	7439-96-5	μg/kg	341,978	_c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	Mercury	7439-97-6	μg/kg	118	80,585	1.22E+01	6,605	No
100-B-14:2_Shallow_2	non-Rad	Molybdenum	7439-98-7	μg/kg	794	c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	Naphthalene	91-20-3	μg/kg	55	c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	Nickel	7440-02-0	μg/kg	15,473	3.89E+08	1.22E+01	3.19E+07	No
100-B-14:2_Shallow_2		Pentachlorophenol	87-86-5	μg/kg	1,900	330	1.22E+01	27	Yes
100-B-14:2_Shallow_2	non-Rad	Pyrene	129-00-0	μg/kg	1,289	c	1.22E+01	_c	
100-B-14:2_Shallow_2	non-Rad	Strontium	7440-24-6	μg/kg	35,581	c	1.22E+01	c	
100-B-14:2_Shallow_2	non-Rad	Tin	7440-31-5	μg/kg	1,100	_c	1.22E+01	_c	
100-B-14:2 Shallow 2		Vanadium	7440-62-2	μg/kg	46,320	_c	1.22E+01	_c	Nove State of the
100-B-14:2 Shallow_2		Zinc	7440-66-6	μg/kg	85,443	3.89E+08	1.22E+01	3.19E+07	No
100-B-14:2_Shallow_3		Aluminum	7429-90-5	µg/kg	5.60E+06	d	1.93E+01	_d	
100-B-14:2_Shallow_3		Aroclor-1254	11097-69-1	µg/kg	8.9	_d	1.93E+01	_d	
100-B-14:2_Shallow_3	non-Rad		7440-38-2	μg/kg	3,983	1.05E+07	1.93E+01	542,197	No
100-B-14:2_Shallow_3		Barium	7440-39-3	µg/kg	59,842	c	1.93E+01	_c	
100-B-14:2_Shallow_3		Beryllium	7440-41-7	µg/kg	333	_c	1.93E+01	_c	
		beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	μg/kg	0.62		1.93E+01	_c	***
100-B-14:2_Shallow_3				_					
100-B-14:2_Shallow_3		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	35	_c	1.93E+01	c	
100-B-14:2_Shallow_3	non-Rad		7440-42-8	μg/kg	1,511	c	1.93E+01	_c	
100-B-14:2_Shallow_3		Cadmium	7440-43-9	μg/kg	155	500	1.93E+01	26	Yes
100-B-14:2_Shallow_3		Chromium	7440-47-3	μg/kg	7,841	d	1.93E+01	d	
100-B-14:2_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	7,889	, C	1.93E+01	_c	
100-B-14:2_Shallow_3		Copper	7440-50-8	μg/kg	17,742	93,717	1.93E+01	4,856	Yes
100-B-14:2_Shallow_3	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	21	c	1.93E+01	c	
100-B-14:2_Shallow_3	non-Rad		72-20-8	μg/kg	1.3	3.0	1.93E+01	0.16	Yes
100-B-14:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	363	6,000 ^e	1.93E+01	6,000 ^e	No

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-14:2_Shallow_3	non-Rad		7439-89-6	μg/kg	1.87E+07	2.61E+07	1.93E+01	1.35E+06	Yes
100-B-14:2_Shallow_3	non-Rad		7439-92-1	µg/kg	6,871	d	1.93E+01	_d	-
100-B-14:2_Shallow_3	non-Rad	Lithium	7439-93-2	μg/kg	7,759	c	1.93E+01	_ c	••
100-B-14:2_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	335,398	c	1.93E+01	_c	
100-B-14:2_Shallow_3	non-Rad	Mercury	7439-97-6	μg/kg	28	80,585	1.93E+01	4,175	No
100-B-14:2_Shallow_3	non-Rad	Methoxychlor	72-43-5	µg/kg	49	d	1.93E+01	_d	
100-B-14:2_Shallow_3	non-Rad	Molybdenum	7439-98-7	μg/kg	522	c	1.93E+01	_c	
100-B-14:2_Shallow_3	non-Rad	Nickel	7440-02-0	μg/kg	11,050	3.89E+08	1.93E+01	2.02E+07	No
100-B-14:2_Shallow_3	non-Rad	Pyrene	129-00-0	μg/kg	20	c	1.93E+01	_c	
100-B-14:2_Shallow_3	non-Rad	Strontium	7440-24-6	µg/kg	34,255	_c	1.93E+01	_c	**
100-B-14:2_Shallow_3	non-Rad	Tin	7440-31-5	μg/kg	1,351	_c	1.93E+01	_c	
100-B-14:2_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg	44,271	c	1.93E+01	_c	50.50
100-B-14:2 Shallow 3	non-Rad	Zinc	7440-66-6	μg/kg	39,869	3.89E+08	1.93E+01	2.02E+07	No
100-B-14:2 Shallow 3	Rad	Cesium-137	10045-97-3	pCi/g	0.077	_c	1.93E+01	_c	
100-B-14:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.35E+06	_d	2.00E+00	d	
100-B-14:2 Shallow Focused		Arsenic	7440-38-2	μg/kg	4,100	1.05E+07	2.00E+00	5.23E+06	No
100-B-14:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	73,100	_c	2.00E+00	_c	
100-B-14:2 Shallow Focused	non-Rad	Beryllium	7440-41-7	µg/kg	812	_c	2.00E+00	_c	
100-B-14:2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	300	_c	2.00E+00	c	
100-B-14:2_Shallow_Focused		Boron	7440-42-8	µg/kg	3,000	_c	2.00E+00	_c	
100-B-14:2 Shallow Focused	non-Rad	Cadmium	7440-43-9	μg/kg	241	500	2.00E+00	250	No
100-B-14:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,400	d	2.00E+00	_d	
100-B-14:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,900	c	2.00E+00	c	
100-B-14:2 Shallow Focused		Copper	7440-50-8	µg/kg	16,500	93,717	2.00E+00	46,859	No
100-B-14:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	248	6,000 ^e	2.00E+00	6,000°	No
100-B-14:2 Shallow Focused	non-Rad		7439-89-6	μg/kg	2.05E+07	2.61E+07	2.00E+00	1.31E+07	Yes
100-B-14:2_Shallow_Focused	non-Rad		7439-92-1	µg/kg	8,900	_d	2.00E+00	_d	
100-B-14:2_Shallow_Focused		Lithium	7439-93-2	µg/kg	6,400	_c	2.00E+00	c	
100-B-14:2 Shallow Focused		Manganese	7439-96-5	μg/kg	347,000	_c	2.00E+00	_c	
100-B-14:2 Shallow Focused		Mercury	7439-97-6	μg/kg	44	80,585	2.00E+00	40,293	No
100-B-14:2_Shallow_Focused		Nickel	7440-02-0	μg/kg	12,500	3.89E+08	2.00E+00	1.95E+08	No
100-B-14:2_Shallow_Focused		Strontium	7440-24-6	µg/kg	34,200	c	2.00E+00	_c	***
100-B-14:2_Shallow_Focused		Vanadium	7440-62-2	μg/kg	47,800	_c	2.00E+00	_c	**
100-B-14:2 Shallow Focused	non-Rad		7440-66-6	µg/kg	50,800	3.89E+08	2.00E+00	1.95E+08	No
100-B-14:3_Deep_Focused		Aluminum	7429-90-5	µg/kg	5.19E+06	d	2.00E+00	d	
100-B-14:3_Deep_Focused		Arsenic	7440-38-2	μg/kg	2,400	1.05E+07	2.00E+00	5.23E+06	No
100-B-14:3_Deep_Focused		Barium	7440-39-3	μg/kg	59,800	2.05E107	2.00E+00	c	
100-B-14:3_Deep_Focused		Beryllium	7440-41-7	µg/kg	311	c	2.00E+00	C	••
100-B-14:3_Deep_Focused		Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	46	c	2.00E+00	C	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	is EPC > Soil Screening Level Protective of Surface Water?
100-B-14:3_Deep_Focused		Boron	7440-42-8	μg/kg	1,400	c	2.00E+00	_c	
100-B-14:3_Deep_Focused	non-Rad	Chromium	7440-47-3	μg/kg	5,600	d	2.00E+00	_d	
100-B-14:3_Deep_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,900	_c	2.00E+00	c	-
100-B-14:3_Deep_Focused	non-Rad	Copper	7440-50-8	μg/kg	15,100	93,717	2.00E+00	46,859	No
100-B-14:3_Deep_Focused	non-Rad	Iron	7439-89-6	μg/kg	2.55E+07	2.61E+07	2.00E+00	1.31E+07	Yes
100-B-14:3_Deep_Focused	non-Rad	Lead	7439-92-1	μg/kg	3,900	d	2.00E+00	_d	***
100-B-14:3_Deep_Focused	non-Rad	Manganese	7439-96-5	μg/kg	355,000	-c	2.00E+00	_c	
100-B-14:3_Deep_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	528	c	2.00E+00	_c	
100-B-14:3_Deep_Focused	non-Rad	Nickel	7440-02-0	μg/kg	8,500	3.89E+08	2.00E+00	1.95E+08	No
100-B-14:3_Deep_Focused	non-Rad	Silver	7440-22-4	μg/kg	164	826	2.00E+00	413	No
100-B-14:3_Deep_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	64,400	c	2.00E+00	c	
100-B-14:3_Deep_Focused	non-Rad	Zinc	7440-66-6	μg/kg	45,900	3.89E+08	2.00E+00	1.95E+08	No
100-B-14:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.57E+06	d	1.00E-02	d	
100-B-14:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	310	_c	1.00E-02	c	-
100-B-14:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,300	1.05E+07	1.00E-02	1.05E+09	No
100-B-14:5_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	82,100	c	1.00E-02	c	-
100-B-14:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	360	_c	1.00E-02	c	
100-B-14:5_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	4,400	c	1.00E-02	c	
100-B-14:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	190	500	1.00E-02	50,000	No
100-B-14:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	16,500	d	1.00E-02	_d	
100-B-14:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,900	c	1.00E-02	_c	
100-B-14:5_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	17,700	93,717	1.00E-02	9.37E+06	No
100-B-14:5_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg	2.68E+07	2.61E+07	1.00E-02	2.61E+09	No
100-B-14:5_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	7,300	d	1.00E-02	d	
100-B-14:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	395,000	_c	1.00E-02	c	
100-B-14:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	560	_c	1.00E-02	c	we we
100-B-14:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	13,000	3.89E+08	1.00E-02	3.89E+10	No
100-B-14:5_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	90	826	1.00E-02	82,600	No
100-B-14:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	69,400	c	1.00E-02	c	
100-B-14:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	76,200	3.89E+08	1.00E-02	3.89E+10	No
100-B-14:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	9.26E+06	d	1.09E+01	_d	
100-B-14:6_Shallow_Focused	non-Rad		7440-38-2	μg/kg	3,800	1.05E+07	1.09E+01	960,036	No
100-B-14:6_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	364,000	_c	1.09E+01	c	
100-B-14:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	470	_c	1.09E+01	c	No real
100-B-14:6_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	5,800	C	1.09E+01	_c	-
100-B-14:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	250	500	1.09E+01	46	Yes
100-B-14:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	49,100	_d	1.09E+01	d	
100-B-14:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,600	_c	1.09E+01	_c	-
100-B-14:6_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	21,000	93,717	1.09E+01	8,598	Yes
100-B-14:6_Shallow_Focused	non-Rad	Iron	7439-89-6	μg/kg	2.67E+07	2.61E+07	1.09E+01	2.40E+06	Yes

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-14:6_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	10,800	_d	1.09E+01	_d	
100-B-14:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	446,000	c	1.09E+01	_c	
100-B-14:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	1,400	80,585	1.09E+01	7,393	No
100-B-14:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	940	c	1.09E+01	_ c	
100-B-14:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	25,100	3.89E+08	1.09E+01	3.57E+07	No
100-B-14:6_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	90	826	1.09E+01	76	Yes
100-B-14:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	53,900	c	1.09E+01	_c	
100-B-14:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	57,000	3.89E+08	1.09E+01	3.57E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.14E+07	d	5.70E+00	d	
100-B-14:7_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	410	c	5.70E+00	c	
100-B-14:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	5,200	1.05E+07	5.70E+00	1.84E+06	No
100-B-14:7_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	128,000	c	5.70E+00	c	
100-B-14:7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	430	c	5.70E+00	_c	
100-B-14:7_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	5,400	c	5.70E+00	c	
100-B-14:7 Shallow Focused	non-Rad	Cadmium	7440-43-9	μg/kg	500	500	5.70E+00	88	Yes
100-B-14:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	25,400	d	5.70E+00	d	-
100-B-14:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,600	_c	5.70E+00	C	-
100-B-14:7_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	21,300	93,717	5.70E+00	16,442	Yes
100-B-14:7_Shallow_Focused	non-Rad		7439-89-6	μg/kg	2.52E+07	2.61E+07	5.70E+00	4.58E+06	Yes
100-B-14:7_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	12,100	d	5.70E+00	d	
100-B-14:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	408,000	c	5.70E+00	_c	PAL 44
100-B-14:7 Shallow Focused	non-Rad	Mercury	7439-97-6	μg/kg	80	80,585	5.70E+00	14,138	No
100-B-14:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	760	_c	5.70E+00	_c	•••
100-B-14:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	22,700	3.89E+08	5.70E+00	6.82E+07	No
100-B-14:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	52,500	c	5.70E+00	_c	
100-B-14:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	79,400	3.89E+08	5.70E+00	6.82E+07	No
100-B-16_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	24	d	1.12E+01	d	
100-B-16_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,300	1.05E+07	1.12E+01	934,321	No
100-B-16_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	226,000	c	1.12E+01	-c	
100-B-16_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	26	_c	1.12E+01	c	
100-B-16_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	21	_c	1.12E+01	_c	
100-B-16_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	61	c	1.12E+01	_c	we
100-B-16_Shallow_Focused		Benzo(k)fluoranthene	207-08-9	μg/kg	46	_c	1.12E+01	_c	w.o.
100-B-16_Shallow_Focused		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	100	c	1.12E+01	_c	
100-B-16_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	360	500	1.12E+01	45	Yes
100-B-16_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	15,400	_d	1.12E+01	d	69
100-B-16_Shallow_Focused		Chrysene	218-01-9	μg/kg	110	_c	1.12E+01	c	
100-B-16_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	37	_ c	1.12E+01	_c	_
100-B-16_Shallow_Focused		Fluoranthene	206-44-0	μg/kg	150	_c	1.12E+01	_c	

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-16_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	8,700	d	1.12E+01	d	-
100-B-16_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	30	80,585	1.12E+01	7,195	No
100-B-16_Shallow_Focused	non-Rad	Pyrene	129-00-0	μg/kg	120	c	1.12E+01	_c	-
100-B-16_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	1,500	826	1.12E+01	74	Yes
100-B-18_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	μg/kg	170	c	1.97E+01	_c	
100-B-18_Shallow_Focused	non-Rad	Acetone	67-64-1	μg/kg	73	c	1.97E+01	c	
100-B-18_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.12E+07	d	1.97E+01	d	
100-B-18_Shallow_Focused	non-Rad	Anthracene	120-12-7	μg/kg	580	_c	1.97E+01	_c	
100-B-18_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	9,300	c	1.97E+01	_c	-
100-B-18_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	μg/kg	39	d	1.97E+01	_d	
100-B-18 Shallow Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	95	_d	1.97E+01	_d	
100-B-18 Shallow Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,000	1.05E+07	1.97E+01	531,188	No
100-B-18_Shallow_Focused	_	Barium	7440-39-3	μg/kg	1.30E+06	_c	1.97E+01	_c	
100-B-18_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	250	c	1.97E+01	_c	
100-B-18_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	300	c	1.97E+01	, _c	
100-B-18_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	240	c	1.97E+01	_ c	
100-B-18_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	100	_c	1.97E+01	c	
100-B-18_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	640	c	1.97E+01	c	
100-B-18_Shallow_Focused		Boron	7440-42-8	µg/kg	34,200	c	1.97E+01	_c	
		Cadmium	7440-43-9	_	13,200	500	1.97E+01	25	Yes
100-B-18_Shallow_Focused 100-B-18_Shallow_Focused	non-Rad non-Rad	Chromium	7440-47-3	μg/kg μg/kg	11,300	d	1.97E+01	d	103
100-B-18_Shallow_Focused	non-Rad	Chrysene	218-01-9	μg/kg	270	c	1.97E+01	_ c	
		Cobalt	7440-48-4	_	8,200		1.97E+01		
100-B-18_Shallow_Focused	non-Rad			μg/kg			1.97E+01	4,757	Yes
100-B-18_Shallow_Focused		Copper Dibenz[a,h]anthracene	7440-50-8 53-70-3	μg/kg	18,900 30	93,717 °	1.97E+01	4,737	165
100-B-18_Shallow_Focused		Fluoranthene	206-44-0	μg/kg μg/kg	300		1.97E+01	_c	
100-B-18_Shallow_Focused		The second secon	86-73-7				1.97E+01		
100-B-18_Shallow_Focused		Fluorene		μg/kg	530	c		c	
100-B-18_Shallow_Focused		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	210	c	1.97E+01	c	
100-B-18_Shallow_Focused	non-Rad		7439-89-6	μg/kg	2.16E+07	2.61E+07	1.97E+01	1.33E+06	Yes
100-B-18_Shallow_Focused		Lead	7439-92-1	μg/kg	25,300	d	1.97E+01	d	
100-B-18_Shallow_Focused		Manganese	7439-96-5	μg/kg	356,000	_c	1.97E+01	c	
100-B-18_Shallow_Focused		Mercury	7439-97-6	μg/kg	2,200	80,585	1.97E+01	4,091	No
100-B-18_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	960		1.97E+01	c	
100-B-18_Shallow_Focused		Naphthalene	91-20-3	μg/kg	440	C	1.97E+01	c	
100-B-18_Shallow_Focused		Nickel	7440-02-0	μg/kg	12,100	3.89E+08	1.97E+01	1.97E+07	No
100-B-18_Shallow_Focused		Pyrene	129-00-0	μg/kg	510	c	1.97E+01	c	
100-B-18_Shallow_Focused		Selenium	7782-49-2	μg/kg	730	1,000	1.97E+01	51	Yes
100-B-18_Shallow_Focused		Total petroleum hydrocarbons Vanadium	TPH 7440-62-2	μg/kg μg/kg	222,000 46,500	c	1.97E+01 1.97E+01	_c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-18_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	77,600	3.89E+08	1.97E+01	1.97E+07	No
100-B-19_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg	5.90E+06	d	6.37E+01	d	
100-B-19_Shallow_1	non-Rad	Antimony	7440-36-0	μg/kg	970	c	6.37E+01	C	tid tar
100-B-19_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	2,658	1.05E+07	6.37E+01	164,276	No
100-B-19_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	57,930	c	6.37E+01	_ c	**
100-B-19_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	735	_c	6.37E+01	c c	-
100-B-19_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	1,500	c	6.37E+01	C	
100-B-19_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	38,860	d	6.37E+01	d	
100-B-19_Shallow_1		Cobalt	7440-48-4	μg/kg	9,267	_ c	6.37E+01	_c	
100-B-19 Shallow 1		Copper	7440-50-8	μg/kg	17,878	93,717	6.37E+01	1,471	Yes
100-B-19_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	886	6,000 ^e	6.37E+01	6,000 ^e	No
100-B-19_Shallow_1		Iron	7439-89-6	μg/kg	2.37E+07	2.61E+07	6.37E+01	409,888	Yes
100-B-19_Shallow_1	non-Rad	Lead	7439-92-1	μg/kg	25,097	_d	6.37E+01	d	-
100-B-19_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	341,162	, c	6.37E+01	_ c	
100-B-19 Shallow 1	non-Rad	Mercury	7439-97-6	μg/kg	60	80,585	6.37E+01	1,265	No
100-B-19_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	12,467	3.89E+08	6.37E+01	6.11E+06	No
100-B-19_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	58,736	_c	6.37E+01	c	
100-B-19_Shallow_1		Zinc	7440-66-6	μg/kg	42,877	3.89E+08	6.37E+01	6.11E+06	No
100-B-19_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg	8.93E+06	d	1.64E+01	d	•••
100-B-19_Shallow_2	non-Rad	Antimony	7440-36-0	μg/kg	1,194	_c	1.64E+01	c	64
100-B-19 Shallow 2	non-Rad	Arsenic	7440-38-2	μg/kg	3,880	1.05E+07	1.64E+01	638,073	No
100-B-19_Shallow_2	non-Rad	Barium	7440-39-3	μg/kg	97,962	c	1.64E+01	_c	
100-B-19_Shallow_2	non-Rad	Beryllium	7440-41-7	μg/kg	313	c	1.64E+01	_ c	
100-B-19_Shallow_2	non-Rad	Boron	7440-42-8	μg/kg	2,381	c	1.64E+01	_ c	
100-B-19_Shallow_2	non-Rad	Cadmium	7440-43-9	μg/kg	170	500	1.64E+01	30	Yes
100-B-19_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	13,790	d	1.64E+01	d	
100-B-19_Shallow_2	non-Rad		7440-48-4	μg/kg	7,998	_ c	1.64E+01	C	
100-B-19 Shallow 2	non-Rad	The state of the s	7440-50-8	μg/kg	16,093	93,717	1.64E+01	5,714	Yes
100-B-19_Shallow_2		Hexavalent Chromium	18540-29-9	µg/kg	190	6,000 ^e	1.64E+01	6,000 ^e	No
100-B-19_Shallow_2	non-Rad		7439-89-6	μg/kg	2.30E+07	2.61E+07	1.64E+01	1.59E+06	Yes
100-B-19_Shallow_2		Lead	7439-92-1	µg/kg	6,415	_d	1.64E+01	d	
100-B-19 Shallow 2		Manganese	7439-96-5	μg/kg	414,775	C	1.64E+01	C	
100-B-19_Shallow_2		Mercury	7439-97-6	μg/kg	24	80,585	1.64E+01	4,914	No
100-B-19_Shallow_2		Molybdenum	7439-98-7	µg/kg	649	c	1.64E+01	_c	
100-B-19_Shallow_2	non-Rad		7440-02-0	μg/kg	12,360	3.89E+08	1.64E+01	2.37E+07	No
100-B-19_Shallow_2		Selenium	7782-49-2	μg/kg	1,280	1,000	1.64E+01	61	Yes
100-B-19_Shallow_2		Vanadium	7440-62-2	μg/kg	53,696	c	1.64E+01	_c	
100-B-19 Shallow_2		Zinc	7440-66-6	μg/kg	47,802	3.89E+08	1.64E+01	2.37E+07	No
100-B-19_Shallow_4		Aluminum	7429-90-5	μg/kg	7.24E+06	_d	3.60E+01	d	64
100-B-19_Shallow_4		Arsenic	7440-38-2	μg/kg	4,048	1.05E+07	3.60E+01	290,678	No

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCi}{g}\cdot m\right)$		Surface Water STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-19_Shallow_4	non-Rad		7440-39-3	μg/kg	65,972	c	3.60E+01	c	
100-B-19 Shallow 4	non-Rad	Beryllium	7440-41-7	μg/kg	452	c	3.60E+01	_c	
100-B-19_Shallow_4	non-Rad	Boron	7440-42-8	μg/kg	2,400	c	3.60E+01	c	
100-B-19 Shallow_4		Cadmium	7440-43-9	μg/kg	122	500	3.60E+01	14	Yes
100-B-19_Shallow_4		Chromium	7440-47-3	μg/kg	11,506	d	3.60E+01	d	
100-B-19_Shallow_4	non-Rad	Cobalt	7440-48-4	μg/kg	6,930	c	3.60E+01	_c	
100-B-19 Shallow_4	non-Rad	Copper	7440-50-8	μg/kg	17,321	93,717	3.60E+01	2,603	Yes
100-B-19_Shallow_4		Hexavalent Chromium	18540-29-9	μg/kg	420	6,000 ^e	3.60E+01	6,000 ^e	No
100-B-19 Shallow 4	non-Rad	Iron	7439-89-6	μg/kg	1.97E+07	2.61E+07	3.60E+01	725,273	Yes
100-B-19_Shallow_4	non-Rad	Lead	7439-92-1	μg/kg	9,612	d	3.60E+01	d	
100-B-19_Shallow_4	non-Rad	Manganese	7439-96-5	μg/kg	316,396	c	3.60E+01	_c	
100-B-19_Shallow_4	non-Rad	Mercury	7439-97-6	μg/kg	15	80,585	3.60E+01	2,238	No
100-B-19_Shallow_4	non-Rad	Molybdenum	7439-98-7	μg/kg	359	c	3.60E+01	_c	
100-B-19_Shallow_4	non-Rad	Nickel	7440-02-0	μg/kg	12,262	3.89E+08	3.60E+01	1.08E+07	No
100-B-19_Shallow_4	non-Rad	Vanadium	7440-62-2	μg/kg	44,697	c	3.60E+01	_c	
100-B-19_Shallow_4	non-Rad	Zinc	7440-66-6	μg/kg	41,817	3.89E+08	3.60E+01	1.08E+07	No
100-B-19_Shallow_5	non-Rad	Aluminum	7429-90-5	μg/kg	7.69E+06	d	2.52E+01	d	-
100-B-19_Shallow_5	non-Rad	Arsenic	7440-38-2	μg/kg	3,076	1.05E+07	2.52E+01	415,254	No
100-B-19_Shallow_5	non-Rad	Barium	7440-39-3	μg/kg	70,260	_c	2.52E+01	_c	
100-B-19_Shallow_5	non-Rad	Beryllium	7440-41-7	μg/kg	818	c	2.52E+01	c	
100-B-19_Shallow_5	non-Rad	Boron	7440-42-8	μg/kg	2,769	c	2.52E+01	^c	
100-B-19_Shallow_5	non-Rad	Cadmium	7440-43-9	μg/kg	322	500	2.52E+01	20	Yes
100-B-19_Shallow_5	non-Rad	Chromium	7440-47-3	μg/kg	10,988	d	2.52E+01	_d	
100-B-19_Shallow_5	non-Rad	Cobalt	7440-48-4	μg/kg	9,504	c	2.52E+01	c	
100-B-19_Shallow_5	non-Rad	Copper	7440-50-8	μg/kg	17,154	93,717	2.52E+01	3,719	Yes
100-B-19_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	236	6,000 ^e	2.52E+01	6,000 ^e	No
100-B-19_Shallow_5	non-Rad	Iron	7439-89-6	μg/kg	2.60E+07	2.61E+07	2.52E+01	1.04E+06	Yes
100-B-19_Shallow_5	non-Rad	Lead	7439-92-1	μg/kg	6,792	d	2.52E+01	_d	
100-B-19_Shallow_5	non-Rad	Manganese	7439-96-5	μg/kg	388,836	_c	2.52E+01	c	
100-B-19_Shallow_5	non-Rad	Mercury	7439-97-6	μg/kg	6,100	80,585	2.52E+01	3,198	Yes
100-B-19_Shallow_5	non-Rad	Molybdenum	7439-98-7	μg/kg	820	_c	2.52E+01	_c	
100-B-19_Shallow_5	non-Rad	Nickel	7440-02-0	μg/kg	12,222	3.89E+08	2.52E+01	1.54E+07	No
100-B-19_Shallow_5	non-Rad	Vanadium	7440-62-2	μg/kg	66,151	C	2.52E+01	c	
100-B-19_Shallow_5		Zinc	7440-66-6	μg/kg	48,358	3.89E+08	2.52E+01	1.54E+07	No
100-B-19_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.02E+07	_d	2.19E+02	_d	
100-B-19_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	1,500	_c	2.19E+02	c	-
100-B-19_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	5,100	1.05E+07	2.19E+02	47,783	No
100-B-19_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	173,000	C	2.19E+02	c	~~
100-B-19_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	1,200	c	2.19E+02	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-19_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	3,500	c	2.19E+02	_c	-
100-B-19_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	370	500	2.19E+02	2.3	Yes
100-B-19_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	17,600	d	2.19E+02	_d	ere.
100-B-19_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,000	c	2.19E+02	_c	
100-B-19_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	22,800	93,717	2.19E+02	428	Yes
100-B-19_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	330	6,000 ^e	2.19E+02	6,000 ^e	No
100-B-19_Shallow_Focused		Iron	7439-89-6	μg/kg	3.96E+07	2.61E+07	2.19E+02	119,223	Yes
100-B-19_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	17,400	d	2.19E+02	_d	-
100-B-19_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	376,000	c	2.19E+02	_c	
100-B-19_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	17,100	80,585	2.19E+02	368	Yes
100-B-19_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	1,100	c	2.19E+02	_ C	-
100-B-19_Shallow_Focused		Nickel	7440-02-0	μg/kg	12,000	3.89E+08	2.19E+02	1.78E+06	No
100-B-19_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	91,300	c	2.19E+02	c	••
100-B-19_Shallow_Focused		Zinc	7440-66-6	μg/kg	52,200	3.89E+08	2.19E+02	1.78E+06	No
100-B-20_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.50E+06	d	3.20E+00	d	
100-B-20_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	8.5	d	3.20E+00	d	
100-B-20_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	2,800	1.05E+07	3.20E+00	3.27E+06	No
100-B-20_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	72,700	c	3.20E+00	c	
100-B-20_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	29	c	3.20E+00	C	
100-B-20_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	32	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	35	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	35	_c	3.20E+00	C	
100-B-20_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	320	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	3,700	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	12,100	d	3.20E+00	_d	n/a
100-B-20 Shallow_Focused	non-Rad	Chrysene	218-01-9	μg/kg	31	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad		7440-48-4	μg/kg	11,200	c	3.20E+00	_c	
100-B-20 Shallow Focused		Copper	7440-50-8	μg/kg	43,300	93,717	3.20E+00	29,287	Yes
100-B-20_Shallow_Focused		Di-n-butylphthalate	84-74-2	μg/kg	153	c	3.20E+00	_c	**
100-B-20_Shallow_Focused		Fluoranthene	206-44-0	μg/kg	43	c	3.20E+00	_c	-
100-B-20_Shallow_Focused		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	21	c	3.20E+00	c	
100-B-20 Shallow Focused		Iron	7439-89-6	μg/kg	2.17E+07	2.61E+07	3.20E+00	8.16E+06	Yes
100-B-20_Shallow_Focused		Lead	7439-92-1	µg/kg	20,900	d	3.20E+00	d	
100-B-20_Shallow_Focused		Manganese	7439-96-5	μg/kg	354,000	_c	3.20E+00	_c	
100-B-20 Shallow Focused		Mercury	7439-97-6	μg/kg	327	80,585	3.20E+00	25,183	No
100-B-20_Shallow_Focused		Molybdenum	7439-98-7	µg/kg	599	60,363	3.20E+00	c	
100-B-20 Shallow Focused		Nickel	7440-02-0	μg/kg	10,800	3.89E+08	3.20E+00	1.22E+08	No
100-B-20_Shallow_Focused		Pyrene	129-00-0	µg/kg	40	c	3.20E+00	_c	
100-B-20 Shallow Focused		Selenium	7782-49-2	μg/kg	440	1,000	3.20E+00	313	Yes

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-20_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	53,900	c	3.20E+00	_c	
100-B-20_Shallow_Focused	non-Rad		7440-66-6	μg/kg	326,000	3.89E+08	3.20E+00	1.22E+08	No
100-B-21:2_Shallow	non-Rad	Aluminum	7429-90-5	μg/kg	9.07E+06	d	3.30E+01	d	-
100-B-21:2_Shallow		Arsenic	7440-38-2	μg/kg	5,978	1.05E+07	3.30E+01	317,103	No
100-B-21:2_Shallow		Barium	7440-39-3	μg/kg	88,995	c	3.30E+01	_c	
100-B-21:2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	190	c	3.30E+01	C	
100-B-21:2_Shallow	non-Rad	Boron	7440-42-8	μg/kg	2,390	c	3.30E+01	c	
100-B-21:2_Shallow		Cadmium	7440-43-9	μg/kg	310	500	3.30E+01	15	Yes
100-B-21:2_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	15,640	d	3.30E+01	d	**
100-B-21:2_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	7,955	c	3.30E+01	c	
100-B-21:2_Shallow	non-Rad	Copper	7440-50-8	μg/kg	20,744	93,717	3.30E+01	2,840	Yes
100-B-21:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	22	c	3.30E+01	_c	
100-B-21:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	275	6,000 ^e	3.30E+01	6,000 ^e	No
100-B-21:2_Shallow	non-Rad	Iron	7439-89-6	μg/kg	2.37E+07	2.61E+07	3.30E+01	791,207	Yes
100-B-21:2_Shallow	non-Rad	Lead	7439-92-1	μg/kg	6,454	d	3.30E+01	d	
100-B-21:2_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	359,421	c	3.30E+01	_c	
100-B-21:2_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	1,390	c	3.30E+01	_c	
100-B-21:2 Shallow	non-Rad	Nickel	7440-02-0	μg/kg	16,027	3.89E+08	3.30E+01	1.18E+07	No
100-B-21:2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	21	c	3.30E+01	_c	
100-B-21:2_Shallow	non-Rad	Silver	7440-22-4	μg/kg	390	826	3.30E+01	25	Yes
100-B-21:2_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	49,852	c	3.30E+01	c	
100-B-21:2_Shallow	non-Rad	Zinc	7440-66-6	μg/kg	43,836	3.89E+08	3.30E+01	1.18E+07	No
100-B-21:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.075	c	3.30E+01	c	
100-B-21:3_Shallow	non-Rad	Aluminum	7429-90-5	μg/kg	7.91E+06	d	9.20E+00	d	
100-B-21:3_Shallow	non-Rad	Antimony	7440-36-0	μg/kg	369	c	9.20E+00	_c	
100-B-21:3_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,247	1.05E+07	9.20E+00	1.14E+06	No
100-B-21:3_Shallow	non-Rad	Barium	7440-39-3	μg/kg	67,083	c	9.20E+00	_ c	
100-B-21:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	68	c	9.20E+00	_ c	
100-B-21:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	27	_c	9.20E+00	_c	
100-B-21:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	41	c	9.20E+00	_c	
100-B-21:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	60	c	9.20E+00	c	
100-B-21:3_Shallow		Beryllium	7440-41-7	μg/kg	341	_c	9.20E+00	_c	-
100-B-21:3_Shallow		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	22	c	9.20E+00	c	
100-B-21:3_Shallow	non-Rad		7440-42-8	μg/kg	2,104	c	9.20E+00	c	
100-B-21:3_Shallow		Cadmium	7440-43-9	μg/kg	75	500	9.20E+00	54	Yes
100-B-21:3_Shallow		Chromium	7440-43-3	μg/kg	10,795	d	9.20E+00	d	res
100-B-21:3_Shallow		Chrysene	218-01-9	µg/kg	86	c	9.20E+00	c	
100-B-21:3_Shallow		Cobalt	7440-48-4	µg/kg	9,788	_ c	9.20E+00	c	
100-B-21:3_Shallow	non-Rad		7440-50-8	μg/kg	17,573	93,717	9.20E+00	10,187	Yes

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-21:3_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	120	c	9.20E+00	c	
100-B-21:3_Shallow	non-Rad	Iron	7439-89-6	μg/kg	2.51E+07	2.61E+07	9.20E+00	2.84E+06	Yes
100-B-21:3_Shallow	non-Rad	Lead	7439-92-1	μg/kg	6,049	d	9.20E+00	d	
100-B-21:3_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	388,389	c	9.20E+00	_c	
100-B-21:3_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	9.20E+00	8,759	No
100-B-21:3_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	379	c	9.20E+00	_c	
100-B-21:3 Shallow	non-Rad	Nickel	7440-02-0	μg/kg	12,176	3.89E+08	9.20E+00	4.23E+07	No
100-B-21:3_Shallow		Pyrene	129-00-0	μg/kg	83	_c	9.20E+00	, c	
100-B-21:3_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	66,201	_c	9.20E+00	c	
100-B-21:3 Shallow	non-Rad	Zinc	7440-66-6	μg/kg	50,545	3.89E+08	9.20E+00	4.23E+07	No
100-B-21:3 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.096	c	9.20E+00	_c	
100-B-21:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	_c	9.20E+00	_c	
100-B-21:4_Shallow		Aluminum	7429-90-5	μg/kg	7.62E+06	d	2.95E+01	_d	
100-B-21:4_Shallow		Antimony	7440-36-0	μg/kg	866	_c	2.95E+01	_c	
100-B-21:4_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,557	1.05E+07	2.95E+01	354,725	No
100-B-21:4_Shallow	non-Rad	Barium	7440-38-2	μg/kg	63,635	c	2.95E+01	334,723	NO
100-B-21:4_Shallow		Beryllium	7440-41-7	μg/kg	286	_c	2.95E+01	_c	
			7440-42-8	_	2,191		2.95E+01	c	
100-B-21:4_Shallow	_	Boron		μg/kg		c			
100-B-21:4_Shallow	non-Rad	Characteristics	7440-43-9	μg/kg	120 32,036	500 d	2.95E+01 2.95E+01	17 d	Yes
100-B-21:4_Shallow	non-Rad	Chromium	7440-47-3	μg/kg					
100-B-21:4_Shallow		Cobalt	7440-48-4	μg/kg	9,438	c	2.95E+01	c	
100-B-21:4_Shallow	non-Rad	Copper	7440-50-8	μg/kg	17,168	93,717	2.95E+01	3,177	Yes
100-B-21:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	300	6,000 ^e	2.95E+01	6,000 ^e	No
100-B-21:4_Shallow		Iron	7439-89-6	μg/kg	2.58E+07	2.61E+07	2.95E+01	885,079	Yes
100-B-21:4_Shallow		Lead	7439-92-1	μg/kg	6,140	d	2.95E+01	_d	
100-B-21:4_Shallow	_	Manganese	7439-96-5	μg/kg	363,889	_c	2.95E+01	c	
100-B-21:4_Shallow	non-Rad		7439-97-6	μg/kg	47	80,585	2.95E+01	2,732	No
100-B-21:4_Shallow		Molybdenum	7439-98-7	μg/kg	494	c	2.95E+01	_c	
100-B-21:4_Shallow	non-Rad		7440-02-0	μg/kg	12,084	3.89E+08	2.95E+01	1.32E+07	No
100-B-21:4_Shallow		Selenium	7782-49-2	μg/kg	1,040	1,000	2.95E+01	34	Yes
100-B-21:4_Shallow		Total_U_Isotopes		μg/kg	1,703	f	2.95E+01	f	
100-B-21:4_Shallow		Vanadium	7440-62-2	μg/kg	68,392	c	2.95E+01	_c	
100-B-21:4_Shallow		Zinc	7440-66-6	μg/kg	50,652	3.89E+08	2.95E+01	1.32E+07	No
100-B-21:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	45	c	2.95E+01	_c	
100-B-21:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	c	2.95E+01	T_C	**
100-B-21:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	c	2.95E+01	_c	-
100-B-21:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.049	c	2.95E+01	-c	-
100-B-21:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	c	2.95E+01	_c	
100-B-21:4 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	c	2.95E+01	_c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCt}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-21:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	_c	2.95E+01	_c	
100-B-22:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.19E+07	_d	1.26E+02	d	***
100-B-22:2 Shallow Focused	non-Rad	Antimony	7440-36-0	μg/kg	1,080	c	1.26E+02	c	
100-B-22:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	6,450	1.05E+07	1.26E+02	82,853	No
100-B-22:2_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	110,000	c	1.26E+02	c	
100-B-22:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	1,700	_c	1.26E+02	C	***
100-B-22:2 Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	9,230	c	1.26E+02	_c	
100-B-22:2 Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	1,020	500	1.26E+02	4.0	Yes
100-B-22:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	24,800	_d	1.26E+02	d	
100-B-22:2 Shallow Focused	non-Rad	Cobalt	7440-48-4	μg/kg	13,000	_c	1.26E+02	_c	
100-B-22:2 Shallow_Focused		Copper	7440-50-8	μg/kg	66,700	93,717	1.26E+02	742	Yes
100-B-22:2 Shallow Focused	non-Rad	Fluoride	16984-48-8	μg/kg	1,600	_c	1.26E+02	_c	
100-B-22:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	402	6,000 ^e	1.26E+02	6,000 ^e	No
100-B-22:2 Shallow Focused		Iron	7439-89-6	μg/kg	4.43E+07	2.61E+07	1.26E+02	206,729	Yes
100-B-22:2_Shallow_Focused		Lead	7439-92-1	μg/kg	125,000	d	1.26E+02	d	
100-B-22:2_Shallow_Focused		Manganese	7439-96-5	μg/kg	479,000	c	1.26E+02	c	-
100-B-22:2 Shallow Focused	non-Rad	Mercury	7439-97-6	μg/kg	319	80,585	1.26E+02	638	No
100-B-22:2_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	2,000	c	1.26E+02	_ c	
100-B-22:2_Shallow_Focused		Nickel	7440-02-0	μg/kg	21,300	3.89E+08	1.26E+02	3.08E+06	No
100-B-22:2_Shallow_Focused		Nitrate	14797-55-8	μg/kg	16,400	c	1.26E+02	_c	
100-B-22:2 Shallow Focused	non-Rad	Silver	7440-22-4	μg/kg	1,960	826	1.26E+02	6.5	Yes
100-B-22:2_Shallow_Focused		Vanadium	7440-62-2	μg/kg	67,600	c	1.26E+02	_c	
100-B-22:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	176,000	3.89E+08	1.26E+02	3.08E+06	No
100-B-23_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	μg/kg	200	c	1.24E+03	_c	
100-B-23_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.95E+06	d	1.24E+03	_d	
100-B-23 Shallow_Focused	non-Rad	Anthracene	120-12-7	μg/kg	1,900	c	1.24E+03	_c	
100-B-23_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	270	_c	1.24E+03	c	
100-B-23_Shallow_Focused		Aroclor-1254	11097-69-1	μg/kg	5.4	d	1.24E+03	_d	
100-B-23 Shallow Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	21	_d	1.24E+03	_d	-
100-B-23_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,400	1.05E+07	1.24E+03	8,454	No
100-B-23_Shallow_Focused	non-Rad		7440-39-3	μg/kg	118,000	_c	1.24E+03	_c	-
100-B-23_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	490	_c	1.24E+03	_c	
100-B-23 Shallow Focused		Benzo(a)pyrene	50-32-8	μg/kg	220	c	1.24E+03	_c	
100-B-23_Shallow_Focused		Benzo(b)fluoranthene	205-99-2	μg/kg	270	_c	1.24E+03	_c	
100-B-23_Shallow_Focused		Benzo(k)fluoranthene	207-08-9	μg/kg	290	_c	1.24E+03	_c	-
100-B-23_Shallow_Focused		Beryllium	7440-41-7	μg/kg	450	_c	1.24E+03	_c	
100-B-23_Shallow_Focused		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	210	_c	1.24E+03	_c	
100-B-23_Shallow_Focused	non-Rad		7440-42-8	µg/kg	14,100	_c	1.24E+03	_c	
100-B-23_Shallow_Focused		Butylbenzylphthalate	85-68-7	μg/kg		c	1.24E+03	_ c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-23_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	1,700	500	1.24E+03	0.40	Yes
100-B-23_Shallow_Focused	non-Rad	Carbazole	86-74-8	μg/kg	370	c	1.24E+03	c	
100-B-23_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	14,000	d	1.24E+03	_d	***
100-B-23_Shallow_Focused	non-Rad	Chrysene	218-01-9	μg/kg	1,400	_c	1.24E+03	c	
100-B-23_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	7,700	c	1.24E+03	C	
100-B-23_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	21,600	93,717	1.24E+03	76	Yes
100-B-23_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	μg/kg	50	c	1.24E+03	_с	- m
100-B-23_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	μg/kg	220	_c	1.24E+03	_c	••
100-B-23_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	31	_c	1.24E+03	c	m 60
100-B-23_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	1,600	c	1.24E+03	_c	enqu
100-B-23_Shallow_Focused	non-Rad	Fluorene	86-73-7	μg/kg	390	_c	1.24E+03	_c	es de
100-B-23_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	83	_c	1.24E+03	C	
100-B-23 Shallow Focused	non-Rad	Iron	7439-89-6	μg/kg	2.07E+07	2.61E+07	1.24E+03	21,094	Yes
100-B-23 Shallow Focused	non-Rad	Lead	7439-92-1	μg/kg	73,800	_d	1.24E+03	_d	
100-B-23_Shallow_Focused	non-Rad	Lithium	7439-93-2	μg/kg	8,600	_c	1.24E+03	_c	
100-B-23 Shallow Focused	non-Rad	Manganese	7439-96-5	μg/kg	352,000	_c	1.24E+03	c	44
100-B-23_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	8,200	80,585	1.24E+03	65	Yes
100-B-23_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	710	_ c	1.24E+03	_c	
100-B-23 Shallow Focused	non-Rad	Nickel	7440-02-0	μg/kg	13,600	3.89E+08	1.24E+03	314,267	No
100-B-23_Shallow_Focused	non-Rad	Pyrene	129-00-0	μg/kg	1,200	_c	1.24E+03	c	
100-B-23 Shallow Focused	non-Rad	Selenium	7782-49-2	μg/kg	570	1,000	1.24E+03	0.81	Yes
100-B-23_Shallow_Focused	non-Rad	Strontium	7440-24-6	μg/kg	25,100	_c	1.24E+03	_ c	
100-B-23_Shallow_Focused	non-Rad	Tin	7440-31-5	μg/kg	3,200	c	1.24E+03	C	
100-B-23_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	μg/kg	173,000	_c	1.24E+03	_c	
100-B-23 Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	42,900	c	1.24E+03	c	
100-B-23 Shallow Focused	non-Rad	I	7440-66-6	μg/kg	1.31E+06	3.89E+08	1.24E+03	314,267	Yes
100-B-25_Shallow		Aluminum	7429-90-5	μg/kg	8.14E+06	d	4.80E+01	d	
100-B-25_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,556	1.05E+07	4.80E+01	218,008	No
100-B-25_Shallow	non-Rad	Barium	7440-39-3	μg/kg	81,242	C	4.80E+01	_ c	
100-B-25_Shallow	non-Rad	Beryllium	7440-41-7	μ g/ kg	246	, C	4.80E+01	_c	
100-B-25_Shallow	non-Rad	Boron	7440-42-8	μg/kg	1,005	_c	4.80E+01	_ c	-
100-B-25_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	97	500	4.80E+01	10	Yes
100-B-25_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	15,581	_d	4.80E+01	d	
100-B-25_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	6,179	_c	4.80E+01	c	_
100-B-25_Shallow	non-Rad	Copper	7440-50-8	μg/kg	17,196	93,717	4.80E+01	1,952	Yes
100-B-25_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	164	6,000 ^e	4.80E+01	6,000°	No
100-B-25_Shallow	non-Rad	Iron	7439-89-6	μg/kg	1.69E+07	2.61E+07	4.80E+01	543,955	Yes
100-B-25_Shallow	non-Rad	Lead	7439-92-1	μg/kg	4,006	d	4.80E+01	d	
100-B-25_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	281,444	_c	4.80E+01	_c	00

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Wast Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCi}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Protective of Surface Water?
100-B-25_Shallow		Mercury	7439-97-6	μg/kg	44	80,585	4.80E+01	1,679	No
100-B-25_Shallow		Molybdenum	7439-98-7	μg/kg	279	c	4.80E+01	c	
100-B-25_Shallow		Nickel	7440-02-0	μg/kg	16,459	3.89E+08	4.80E+01	8.10E+06	No
100-B-25_Shallow	-	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,156	f	4.80E+01	f	
100-B-25_Shallow		Vanadium	7440-62-2	μg/kg	37,033	c	4.80E+01	C	where the same of
100-B-25_Shallow	_	Zinc	7440-66-6	μg/kg	35,105	3.89E+08	4.80E+01	8.10E+06	No
100-B-25_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.55	_c	4.80E+01	c	nginh
100-B-25_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.1	_c	4.80E+01	c	~~
100-B-25_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.5	_c	4.80E+01	c	-
100-B-25_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.40	c	4.80E+01	_c	ala alp
100-B-25_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.78	_c	4.80E+01	c	49.40
100-B-25_Shallow	Rad	Uranium-238	U-238	pCi/g	0.72	_c	4.80E+01	c	
100-B-26_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.16E+06	_d	3.17E+01	d	
100-B-26 Shallow Focused	non-Rad	Arsenic	7440-38-2	μg/kg	5,200	1.05E+07	3.17E+01	330,107	No
100-B-26_Shallow_Focused	_	Barium	7440-39-3	μg/kg	84,700	c	3.17E+01	_ c	ng oby
100-B-26_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	441	c	3.17E+01	c	
100-B-26 Shallow Focused	non-Rad	Boron	7440-42-8	μg/kg	1,800	C	3.17E+01	_c	
100-B-26_Shallow_Focused		Cadmium	7440-43-9	μg/kg	501	500	3.17E+01	16	Yes
100-B-26 Shallow Focused		Chromium	7440-47-3	μg/kg	39,300	_d	3.17E+01	_d	
100-B-26_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	6,400	c	3.17E+01	_c	
100-B-26_Shallow_Focused		Copper	7440-50-8	μg/kg	20,200	93,717	3.17E+01	2,956	Yes
100-B-26 Shallow Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	2,020	6,000°	3.17E+01	6,000 ^e	No
100-B-26_Shallow_Focused		Iron	7439-89-6	μg/kg	1.79E+07	2.61E+07	3.17E+01	823,654	Yes
100-B-26_Shallow_Focused		Lead	7439-92-1	μg/kg	17,600	_d	3.17E+01	_d	
100-B-26_Shallow_Focused		Manganese	7439-96-5	μg/kg	262,000	_c	3.17E+01	_c	
100-B-26_Shallow_Focused		Mercury	7439-97-6	μg/kg	16	80,585	3.17E+01	2,542	No
100-B-26_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	206	c	3.17E+01		
100-B-26 Shallow Focused		Nickel	7440-02-0	μg/kg	16,500	3.89E+08	3.17E+01	1.23E+07	No
100-B-26 Shallow Focused		Selenium	7782-49-2	μg/kg	513	1,000	3.17E+01	32	Yes
100-B-26_Shallow_Focused		Total_U_Isotopes	Total_U_Isotopes	μg/kg	3,513	f	3.17E+01	f	
100-B-26_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	33,700	_c	3.17E+01	c	
100-B-26 Shallow Focused	non-Rad	Zinc	7440-66-6	μg/kg	108,000	3.89E+08	3:17E+01	1.23E+07	No
100-B-26 Shallow Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.1	C C	3.17E+01	_ c	**
100-B-26_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.4	_c	3.17E+01	_ c	
100-B-26_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	_c	3.17E+01	c	
100-B-27_Deep	non-Rad	Aluminum	7429-90-5	μg/kg	1.23E+07	_d	4.71E+01	_ d	**
100-B-27_Deep		Antimony	7440-36-0	μg/kg	464		4.71E+01	c	
100-B-27_Deep		Arsenic	7440-38-2	-	4,466	°			No.
100-B-27_Deep	non-Rad		7440-38-2	μg/kg μg/kg	149,745	1.05E+07 c	4.71E+01 4.71E+01	222,174	No

	Table 7	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Dec	cision Units to STOMP 1	D 70:30/	100:0 Contaminant	STOMP 1D 70:30/100:0		STOMP 1D 70:30/100:0	g Is EPC > Soil Screening Level Protective of Surface Water?
Waste Site/Decision Unit	Analyte Group		CAS No.	Units	Exposure Point Concentration	Contaminant Source Model Soil Screening Level for Surface Water Protection a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	
100-B-27_Deep		Beryllium	7440-41-7	μg/kg	436	_ c	4.71E+01	_c	
100-B-27_Deep		Boron	7440-42-8	μg/kg	1,099	_c	4.71E+01	_ c	
100-B-27_Deep	non-Rad	Cadmium	7440-43-9	μg/kg	102	500	4.71E+01	11	Yes
100-B-27_Deep	non-Rad	Chromium	7440-47-3	μg/kg	13,667	d	4.71E+01	_d	163
100-B-27_Deep		Cobalt	7440-48-4	μg/kg	14,425	_c	4.71E+01	C	
100-B-27_Deep			7440-50-8		28,589	93,717	4.71E+01	1,990	
100-B-27_Deep	non-Rad	Copper Hexavalent Chromium	18540-29-9	μg/kg μg/kg	215		4.71E+01 4.71E+01		Yes No
100-B-27_Deep					3.61E+07	6,000 ^e		6,000 ^e	
100-B-27_Deep		Iron Lead	7439-89-6 7439-92-1	μg/kg	7,359	2.61E+07	4.71E+01 4.71E+01	554,349 d	Yes
				μg/kg		· · · · · · · · · · · · · · · · · · ·			0'0
100-B-27_Deep	non-Rad	Manganese	7439-96-5	μg/kg	525,815	c	4.71E+01	c	
100-B-27_Deep		Molybdenum	7439-98-7	μg/kg	471	c	4.71E+01	_c	
100-B-27_Deep		Nickel	7440-02-0	μg/kg	15,089	3.89E+08	4.71E+01	8.26E+06	No
100-B-27_Deep		Silver	7440-22-4	μg/kg	208	826	4.71E+01	18	Yes
100-B-27_Deep	non-Rad	Vanadium	7440-62-2	μg/kg	86,865	c	4.71E+01	_c	**
100-B-27_Deep		Zinc	7440-66-6	μg/kg	69,869	3.89E+08	4.71E+01	8.26E+06	No
100-B-28_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg	8.52E+06	d	2.49E+01	d	
100-B-28_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	4,446	1.05E+07	2.49E+01	420,257	No
100-B-28_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	99,189	c	2.49E+01	_c	**
100-B-28_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	358	_c	2.49E+01	_c	
100-B-28_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	5,012	c	2.49E+01	_c	••
100-B-28_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg	405	500	2.49E+01	20	Yes
100-B-28_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	11,645	_d	2.49E+01	_d	
100-B-28_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	10,094	_c	2.49E+01	_c	
100-B-28 Shallow 1	non-Rad	Copper	7440-50-8	μg/kg	21,585	93,717	2.49E+01	3,764	Yes
100-B-28_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	330	6,000 ^e	2.49E+01	6,000 ^e	No
100-B-28_Shallow_1	non-Rad	Iron	7439-89-6	μg/kg	2.68E+07	2.61E+07	2.49E+01	1.05E+06	Yes
100-B-28_Shallow_1	non-Rad		7439-92-1	μg/kg	8,333	_ d	2.49E+01	_d	
100-B-28_Shallow_1		Manganese	7439-96-5	μg/kg	401,359	c	2.49E+01	_c	
100-B-28 Shallow 1	non-Rad		7439-97-6	μg/kg	76	80,585	2.49E+01	3,236	No
100-B-28_Shallow_1		Molybdenum	7439-98-7	µg/kg	521	_c	2.49E+01	c	
100-B-28 Shallow_1		Nickel	7440-02-0	μg/kg	13,397	3.89E+08	2.49E+01	1.56E+07	No
100-B-28_Shallow_1		Vanadium	7440-62-2	μg/kg	64,955	3.83£+08	2.49E+01		
100-B-28_Shallow_1		Zinc	7440-66-6	μg/kg	65,498	3.89E+08	2.49E+01	1.56E+07	No
100-B-28_Shallow_3		Aluminum	7429-90-5	μg/kg	1.06E+07	3.89E+08	1.93E+01	1.50E+07	NO
100-B-28_Shallow_3		Arsenic	7440-38-2			1.05E+07	1.93E+01	542,197	No
100-B-28_Shallow_3	non-Rad	The state of the s	7440-39-3	μg/kg	4,728 85,885	1.05E+07	1.93E+01	542,197 c	NO
				μg/kg					
100-B-28_Shallow_3		Beryllium	7440-41-7	μg/kg	357	c	1.93E+01	c	
100-B-28_Shallow_3	non-Rad		7440-42-8	μg/kg	2,119	_c	1.93E+01	_c	tive .
100-B-28_Shallow_3	non-Rad	Cadmium	7440-43-9	μg/kg	507	500	1.93E+01	26	Yes

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-28_Shallow_3	non-Rad	Chromium	7440-47-3	μg/kg	17,013	_d	1.93E+01	d	
100-B-28_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	11,408	c	1.93E+01	_c	
100-B-28_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg	18,934	93,717	1.93E+01	4,856	Yes
100-B-28_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	200	6,000 ^e	1.93E+01	6,000 ^e	No
100-B-28_Shallow_3	non-Rad	Iron	7439-89-6	μg/kg	2.58E+07	2.61E+07	1.93E+01	1.35E+06	Yes
100-B-28_Shallow_3	non-Rad	Lead	7439-92-1	μg/kg	7,178	_d	1.93E+01	_d	
100-B-28_Shallow_3	non-Rad	Manganese	7439-96-5	μg/kg	524,239	c	1.93E+01	c	
100-B-28_Shallow_3	non-Rad	Mercury	7439-97-6	μg/kg	163	80,585	1.93E+01	4,175	No
100-B-28_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	370	_c	1.93E+01	c	***
100-B-28 Shallow 3	non-Rad	Nickel	7440-02-0	μg/kg	17,186	3.89E+08	1.93E+01	2.02E+07	No
100-B-28_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg	64,702	c	1.93E+01	_c	10-dP
100-B-28_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	572,012	3.89E+08	1.93E+01	2.02E+07	No
100-B-28_Shallow_5		Aluminum	7429-90-5	μg/kg	8.80E+06	_d	2.20E+01	_d	
100-B-28_Shallow_5	non-Rad	Antimony	7440-36-0	μg/kg	899	_c	2.20E+01	_c	
100-B-28 Shallow 5	non-Rad	Arsenic	7440-38-2	μg/kg	4,877	1.05E+07	2.20E+01	475,654	No
100-B-28_Shallow_5		Barium	7440-39-3	µg/kg	73,328	_c	2.20E+01	_c	
100-B-28_Shallow_5		Beryllium	7440-41-7	µg/kg	324	c	2.20E+01	C	
100-B-28_Shallow_5		Boron	7440-42-8	μg/kg	1,868	c	2.20E+01	_c	
100-B-28_Shallow_5	non-Rad	Cadmium	7440-43-9	µg/kg	234	500	2.20E+01		
100-B-28_Shallow_5	non-Rad	Chromium	7440-43-9	μg/kg μg/kg	19,369	d	2.20E+01	23 d	Yes
100-B-28_Shallow_5		Cobalt	7440-48-4	_	9,470	c	2.20E+01		
		The state of the s	and the second s	μg/kg				_c	
100-B-28_Shallow_5 100-B-28_Shallow_5	non-Rad non-Rad	Copper Hexavalent Chromium	7440-50-8 18540-29-9	μg/kg	19,492 190	93,717	2.20E+01	4,260	Yes
				µg/kg		6,000 ^e	2.20E+01	6,000 ^e	No
100-B-28_Shallow_5 100-B-28_Shallow_5		Iron Lead	7439-89-6 7439-92-1	μg/kg	2.50E+07 12,508	2.61E+07	2.20E+01 2.20E+01	1.19E+06 d	Yes
100-B-28_Shallow_5			7439-96-5	μg/kg					
		Manganese		μg/kg	389,598	c	2.20E+01	c	
100-B-28_Shallow_5	non-Rad		7439-97-6	μg/kg	77	80,585	2.20E+01	3,663	No
100-B-28_Shallow_5		Molybdenum	7439-98-7	μg/kg	775	c	2.20E+01	c	
100-B-28_Shallow_5 100-B-28_Shallow_5		Nickel Vanadium	7440-02-0 7440-62-2	μg/kg	14,338 58,291	3.89E+08	2.20E+01	1.77E+07	No
				μg/kg		c	2.20E+01	c	
100-B-28_Shallow_5		Zinc	7440-66-6 7429-90-5	μg/kg	51,942 1.85E+07	3.89E+08	2.20E+01	1.77E+07	No
100-B-28_Shallow_Focused		Aluminum		μg/kg		_d	1.51E+02	d	
100-B-28_Shallow_Focused		Anthracene	120-12-7	μg/kg	1.9	_c	1.51E+02	_c	
100-B-28_Shallow_Focused		Antimony	7440-36-0	µg/kg	1,000	c	1.51E+02	C	
100-B-28_Shallow_Focused		Arsenic	7440-38-2	μg/kg	8,020	1.05E+07	1.51E+02	69,485	No
100-B-28_Shallow_Focused		Barium	7440-39-3	µg/kg	98,100	c	1.51E+02	_c	
100-B-28_Shallow_Focused		Benzo(a)anthracene	56-55-3	µg/kg	47	c	1.51E+02	_c	
100-B-28_Shallow_Focused		Benzo(a)pyrene	50-32-8	µg/kg	60	_c	1.51E+02	_c	
100-B-28_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	82	c	1.51E+02	_c	-

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-28_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	31	c	1.51E+02	_с	
100-B-28_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	572	_c	1.51E+02	_c	-
100-B-28_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	1,710	_c	1.51E+02	c	**
100-B-28_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	141	500	1.51E+02	3.3	Yes
100-B-28_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	50,100	d	1.51E+02	d	
100-B-28_Shallow_Focused	non-Rad	Chrysene	218-01-9	μg/kg	37	c	1.51E+02	c	
100-B-28_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	10,600	_c	1.51E+02	_c	1940
100-B-28_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	31,000	93,717	1.51E+02	622	Yes
100-B-28_Shallow_Focused		Dibenz[a,h]anthracene	53-70-3	μg/kg	8.0	c	1.51E+02	_c	mos
100-B-28_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	101	c	1.51E+02	_c	
100-B-28_Shallow_Focused	non-Rad	Fluorene	86-73-7	μg/kg	1.0	_ c	1.51E+02	_c	
100-B-28_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	280	6,000 ^e	1.51E+02	6,000 ^e	No
100-B-28 Shallow Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	48	_ c	1.51E+02	_c	
100-B-28_Shallow_Focused	non-Rad		7439-89-6	μg/kg	3.69E+07	2.61E+07	1.51E+02	173,372	Yes
100-B-28_Shallow_Focused	non-Rad	The state of the s	7439-92-1	μg/kg	12,700	d	1.51E+02	_d	
100-B-28_Shallow_Focused		Manganese	7439-96-5	μg/kg	494,000	_c	1.51E+02	_c	
100-B-28 Shallow Focused		Mercury	7439-97-6	μg/kg	804	80,585	1.51E+02	535	Yes
100-B-28_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	566	_c	1.51E+02	_c	
100-B-28_Shallow_Focused		Nickel	7440-02-0	μg/kg	17,200	3.89E+08	1.51E+02	2.58E+06	No
100-B-28_Shallow_Focused		Pyrene	129-00-0	μg/kg	34	_c	1.51E+02	_c	wa-
100-B-28_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	106,000	c	1.51E+02	c	**
100-B-28_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	81,700	3.89E+08	1.51E+02	2.58E+06	No
100-B-31_Shallow		Aluminum	7429-90-5	μg/kg	7.24E+06	d	1.51E+01	_d	
100-B-31_Shallow	non-Rad	Antimony	7440-36-0	μg/kg	1,096	_c	1.51E+01	_c	
100-B-31 Shallow		Arsenic	7440-38-2	μg/kg	5,007	1.05E+07	1.51E+01	693,006	No
100-B-31_Shallow	non-Rad	and the second s	7440-39-3	μg/kg	66,123	_ c	1.51E+01	_c	70
100-B-31_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	263	C	1.51E+01	_c	
100-B-31_Shallow	non-Rad	Boron	7440-42-8	μg/kg	1,934	c	1.51E+01	c	44
100-B-31 Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	159	500	1.51E+01	33	Yes
100-B-31_Shallow		Chromium	7440-47-3	μg/kg	17,815	_d	1.51E+01	_d	
100-B-31_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	8,635	_c	1.51E+01	_c	
100-B-31 Shallow	non-Rad	Copper	7440-50-8	μg/kg	30,009	93,717	1.51E+01	6,206	Yes
100-B-31_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	173	6,000 ^e	1.51E+01	6,000°	No
100-B-31_Shallow	non-Rad	Iron	7439-89-6	μg/kg	2.37E+07	2.61E+07	1.51E+01	1.73E+06	Yes
100-B-31_Shallow	non-Rad		7439-92-1	μg/kg	78,974	d	1.51E+01	_d	***
100-B-31_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	376,677	_с	1.51E+01	c	
100-B-31_Shallow		Mercury	7439-97-6	μg/kg	112	80,585	1.51E+01	5,337	No
100-B-31_Shallow		Molybdenum	7439-98-7	μg/kg	4,483	c	1.51E+01	c	
100-B-31_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	12,098	3.89E+08	1.51E+01	2.58E+07	No

. Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site De Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	1	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-31_Shallow	non-Rad	Selenium	7782-49-2	μg/kg	856	1,000	1.51E+01	66	Yes
100-B-31_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	55,070	c	1.51E+01	c	
100-B-31_Shallow	non-Rad	Zinc	7440-66-6	μg/kg	63,292	3.89E+08	1.51E+01	2.58E+07	No
100-B-32_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.52	_c	2.00E+00	c	-
100-B-33_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.07E+07	d	4.20E+00	_d	-
100-B-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,550	1.05E+07	4.20E+00	2.49E+06	No
100-B-33_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	102,000	_c	4.20E+00	_c	
100-B-33_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	408	c	4.20E+00	_c	
100-B-33 Shallow Focused	non-Rad	Boron	7440-42-8	μg/kg	4,670	_c	4.20E+00	_c	
100-B-33 Shallow Focused		Cadmium	7440-43-9	μg/kg	133	500	4.20E+00	119	Yes
100-B-33_Shallow_Focused		Chromium	7440-47-3	μg/kg	13,100	_d	4.20E+00	_d	-
100-B-33_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	8,710	_c	4.20E+00	_c	when
100-B-33 Shallow Focused		Copper	7440-50-8	μg/kg	16,500	93,717	4.20E+00	22,314	No
100-B-33_Shallow_Focused	_	Iron	7439-89-6	μg/kg	2.47E+07	2.61E+07	4.20E+00	6.22E+06	Yes
100-B-33_Shallow_Focused	_	Lead	7439-92-1	μg/kg	6,870	_d	4.20E+00	_d	
100-B-33_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	409,000	_c	4.20E+00	_c	
100-B-33 Shallow Focused		Mercury	7439-97-6	μg/kg	12	80,585	4.20E+00	19,187	No
100-B-33_Shallow_Focused		Nickel	7440-02-0	μg/kg	13,200	3.89E+08	4.20E+00	9.26E+07	No
100-B-33 Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	898	1,000	4.20E+00	238	Yes
100-B-33_Shallow_Focused	non-Rad	Total_U_isotopes	Total_U_Isotopes	μg/kg	1,447	f	4.20E+00	_f	
100-B-33_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	58,200	_c	4.20E+00	-c	***
100-B-33 Shallow Focused	non-Rad	Zinc	7440-66-6	μg/kg	48,700	3.89E+08	4.20E+00	9.26E+07	No
100-B-33_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.16	_c	4.20E+00	_c	
100-B-33_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.13	_c	4.20E+00	C	
100-B-33 Shallow Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	_c	4.20E+00	_c	
100-B-33_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.49	c	4.20E+00	c	
100-B-35:1 Deep Focused		Aluminum	7429-90-5	μg/kg	1.39E+07	d	2.22E+01	_d	
100-B-35:1_Deep_Focused		Antimony	7440-36-0	μg/kg	1,300	C	2.22E+01	_c	
		Aroclor-1260	11096-82-5	µg/kg	26	_ d	2.22E+01	_d	
100-B-35:1_Deep_Focused		Complete Com	7440-38-2	_	9,600	1.05E+07	2.22E+01	471,369	No
100-B-35:1_Deep_Focused		Arsenic	7440-38-2	μg/kg μg/kg	81,600	1.03E+07	2.22E+01	4/1,303	INO
100-B-35:1_Deep_Focused		Barium	7440-41-7	_	280		2.22E+01		
100-B-35:1_Deep_Focused		Beryllium		μg/kg		C		c	
100-B-35:1_Deep_Focused	non-Rad	and the same of th	7440-42-8	μg/kg	1,500	c	2.22E+01	c	
100-B-35:1_Deep_Focused		Cadmium	7440-43-9	μg/kg	220	500	2.22E+01	23	Yes
100-B-35:1_Deep_Focused		Chromium	7440-47-3	μg/kg	15,300	_d	2.22E+01	d	***
100-B-35:1_Deep_Focused	non-Rad		7440-48-4	μg/kg	11,900	c	2.22E+01	c	
100-B-35:1_Deep_Focused	non-Rad		7440-50-8	μg/kg	23,200	93,717	2.22E+01	4,221	Yes
100-B-35:1_Deep_Focused	non-Rad	Iron	7439-89-6 7439-92-1	μg/kg	3.19E+07 12,200	2.61E+07	2.22E+01 2.22E+01	1.18E+06	Yes

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site I Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-35:1_Deep_Focused	non-Rad	Manganese	7439-96-5	μg/kg	502,000	c	2.22E+01	c	
100-B-35:1_Deep_Focused	non-Rad	Nickel	7440-02-0	μg/kg	17,500	3.89E+08	2.22E+01	1.75E+07	No
100-B-35:1_Deep_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	μ g /kg	55,000	c	2.22E+01	_ c	
100-B-35:1_Deep_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	μg/kg	58,000	_c	2.22E+01	c	
100-B-35:1_Deep_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	72,200	_c	2.22E+01	c	we
100-B-35:1 Deep Focused	non-Rad	Zinc	7440-66-6	μg/kg	59,900	3.89E+08	2.22E+01	1.75E+07	No
100-B-35:1_Shallow		Aluminum	7429-90-5	μg/kg	8.57E+06	d	1.22E+02	_d	
100-B-35:1_Shallow	non-Rad	Antimony	7440-36-0	μg/kg	1,061	c	1.22E+02	_c	
100-B-35:1_Shallow		Aroclor-1254	11097-69-1	μg/kg	7.4	_d	1.22E+02	_d	
100-B-35:1_Shallow		Aroclor-1260	11096-82-5	μg/kg	3.0	d	1.22E+02	_d	
100-B-35:1 Shallow	non-Rad		7440-38-2	μg/kg	5,148	1.05E+07	1.22E+02	85,774	No
100-B-35:1_Shallow		Barium	7440-39-3	μg/kg	64,766	c	1.22E+02	c	
100-B-35:1 Shallow		Benzo(a)anthracene	56-55-3	μg/kg	15	c	1.22E+02	_c	==
100-B-35:1_Shallow		Benzo(a)pyrene	50-32-8	µg/kg	17	C	1.22E+02	_ c	
100-B-35:1_Shallow		Benzo(b)fluoranthene	205-99-2		65	C	1.22E+02	c	***
				μg/kg					
100-B-35:1_Shallow		Benzo(k)fluoranthene	207-08-9	μg/kg	10	c	1.22E+02	c	
100-B-35:1_Shallow		Beryllium	7440-41-7	μg/kg	126	_c	1.22E+02	_c	-
100-B-35:1_Shallow	non-Rad		7440-42-8	μg/kg	1,423	, C	1.22E+02	_c	
100-B-35:1_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	151	500	1.22E+02	4.1	Yes
100-B-35:1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,942	d	1.22E+02	d	
100-B-35:1_Shallow	non-Rad	Chrysene	218-01-9	μg/kg	13	c	1.22E+02	_c	-
100-B-35:1_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	9,325	c	1.22E+02	_c	
100-B-35:1_Shallow	non-Rad	Copper	7440-50-8	μg/kg	19,504	93,717	1.22E+02	768	Yes
100-B-35:1_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	17	_с	1.22E+02	c	
100-B-35:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	26	_c	1.22E+02	C	
100-B-35:1_Shallow	non-Rad	Iron	7439-89-6	μg/kg	2.49E+07	2.61E+07	1.22E+02	214,015	Yes
100-B-35:1_Shallow	non-Rad	Lead	7439-92-1	μg/kg	6,650	_ d	1.22E+02	-d	
100-B-35:1_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	368,864	c	1.22E+02	_c	
100-B-35:1_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	14	80,585	1.22E+02	661	No
100-B-35:1_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	370	_c	1.22E+02	C	
100-B-35:1_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	12,876	3.89E+08	1.22E+02	3.19E+06	No
100-B-35:1_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	15	_c	1.22E+02	_c	
100-B-35:1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	9,369	C	1.22E+02	_c	
100-B-35:1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	11,859	C	1.22E+02	C	
100-B-35:1_Shallow		Vanadium	7440-62-2	µg/kg	61,150	_ c	1.22E+02	_c	-
100-B-35:1_Shallow	non-Rad		7440-66-6	μg/kg	62,837	3.89E+08	1.22E+02	3.19E+06	No
100-B-35:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.35E+06	d	1.59E+01	d	***
100-B-35:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	3,570	c	1.59E+01	, c	
100-B-35:2_Shallow_Focused		Aroclor-1260	11096-82-5	µg/kg	42	_d	1.59E+01	d	**

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site De Analyte Name	CAS No.	0 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-35:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	1,620	1.05E+07	1.59E+01	658,138	No
100-B-35:2_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	51,600	c	1.59E+01	c	
100-B-35:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	67	c	1.59E+01	_c	
100-B-35:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	7 7	c	1.59E+01	_ c	
100-B-35:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	74	c	1.59E+01	_c	
100-B-35:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	41	_c	1.59E+01	c	
100-B-35:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	318	_c	1.59E+01	_ c	
100-B-35:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	11,500	d	1.59E+01	d	
100-B-35:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	μg/kg	54	_c	1.59E+01	_ c	
100-B-35:2 Shallow Focused	non-Rad	Cobalt	7440-48-4	μg/kg	7,460	_c	1.59E+01	_c	
100-B-35:2 Shallow Focused		Copper	7440-50-8	μg/kg	21,800	93,717	1.59E+01	5,894	Yes
100-B-35:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	μg/kg	7.7	_c	1.59E+01	_ c	
100-B-35:2 Shallow Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	63	_ c	1.59E+01	C	
100-B-35:2 Shallow Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	63	c 	1.59E+01	c	
100-B-35:2 Shallow Focused		Iron	7439-89-6	μg/kg	1.58E+07	2.61E+07	1.59E+01	1.64E+06	Yes
100-B-35:2_Shallow_Focused		Lead	7439-92-1	μg/kg	12,700	_d	1.59E+01	d	
100-B-35:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	234,000	c	1.59E+01	c	
100-B-35:2 Shallow Focused		Mercury	7439-97-6	μg/kg	9.3	80,585	1.59E+01	5,068	No
100-B-35:2_Shallow_Focused		Nickel	7440-02-0	μg/kg	9,660	3.89E+08	1.59E+01	2.45E+07	No
100-B-35:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	μg/kg	62	c	1.59E+01	_c	
100-B-35:2_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	569	826	1.59E+01	52	Yes
100-B-35:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	μg/kg	3,580	c	1.59E+01	_c	
100-B-35:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	μg/kg	19,300	_c	1.59E+01	_ c	
100-B-35:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	48,400	c	1.59E+01	_c	data
100-B-35:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	158,000	3.89E+08	1.59E+01	2.45E+07	No
100-B-5_Deep	non-Rad	Chromium	7440-47-3	μg/kg	297,000	d	2.76E+01	d	
100-B-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	1,940	6,000 ^e	2.76E+01	6,000 ^e	No
100-B-5_Deep	non-Rad	Lead	7439-92-1	μg/kg	8,200	_d	2.76E+01	d	
100-B-5_Deep	non-Rad	Mercury	7439-97-6	μg/kg	5,040	80,585	2.76E+01	2,920	Yes
100-B-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,230	f	2.76E+01	f	
100-B-5_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.97	c	2.76E+01	C	West .
100-B-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	_ c	2.76E+01	_c	
100-B-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.5	_c	2.76E+01	c	
100-B-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	15	_c	2.76E+01	_c	
100-B-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	_c	2.76E+01	c	
100-B-5_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.26	c	2.76E+01	_c	er u
100-B-5_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.4	_c	2.76E+01	_ c	was
100-B-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.9	_c	2.76E+01	c	D-81
100-B-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.79	_c	2.76E+01	_c	and a

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.75	c	2.76E+01	_c	-
100-B-5_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	12,803	d	5.22E+01	d	==
100-B-5_Shallow	non-Rad	Lead	7439-92-1	μg/kg	7,958	d	5.22E+01	d	
100-B-5_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	17	80,585	5.22E+01	1,544	No
100-B-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,870	_f	5.22E+01	f	
100-B-5_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.11	_c	5.22E+01	c	-
100-B-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	_c	5.22E+01	c	***
100-B-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	c	5.22E+01	_c	•
100-B-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.088	c	5.22E+01	-c	
100-B-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	c	5.22E+01	c	en ap
100-B-8:1_Deep	non-Rad	Chromium	7440-47-3	μg/kg	55,800	d	2.89E+01	_d	
100-B-8:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	483	6,000 ^e	2.89E+01	6,000 ^e	No
100-B-8:1_Deep	non-Rad	Lead	7439-92-1	μg/kg	7,764	d	2.89E+01	d	-
100-B-8:1_Deep	non-Rad	Mercury	7439-97-6	μg/kg	237	80,585	2.89E+01	2,788	No
100-B-8:1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,774	f	2.89E+01	_ f	
100-B-8:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.44	c	2.89E+01	C C	
100-B-8:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	9.6	c	2.89E+01	_c	-
100-B-8:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.16	c	2.89E+01	C	-
100-B-8:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.7	c	2.89E+01	_c	-
100-B-8:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.16	c	2.89E+01	_c	
100-B-8:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.75	c	2.89E+01	_ c	-
100-B-8:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	_c	2.89E+01	_c	-
100-B-8:1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	c	2.89E+01	_c	-
100-B-8:1_Deep	Rad	Uranium-238	U-238	pCi/g	0.60	c	2.89E+01	_c	
100-B-8:1_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	16,055	_d	4.86E+01	_d	
100-B-8:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	286	6,000 ^e	4.86E+01	6,000 ^e	No
100-B-8:1_Shallow	non-Rad		7439-92-1	μg/kg	37,866	d	4.86E+01	_d	-
100-B-8:1_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	48	80,585	4.86E+01	1,658	No
100-B-8:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	-	1,792	f	4.86E+01	_f	-
100-B-8:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	_c	4.86E+01	c	
100-B-8:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.29	c	4.86E+01	C	ė=
100-B-8:1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.069	_c	4.86E+01	c	
100-B-8:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	_c	4.86E+01	C C	••
100-B-8:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	c	4.86E+01	- c	-
100-B-8:1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.037	_c	4.86E+01	_c	99-99
100-B-8:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	_c	4.86E+01	C C	-
100-B-8:2_Deep	non-Rad	Chromium	7440-47-3	μg/kg	65,806	d	1.92E+01	d	***
100-B-8:2_Deep		Hexavalent Chromium	18540-29-9	μg/kg	1,989	6,000 ^e	1.92E+01	6,000 ^e	No

	Table 7	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site	Decision Units to STOMP 1	70:30/	LOO:0 Contaminant	Source Model Soil Screening Leve	els Protective of S	Surface Water	
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-B-8:2_Deep	non-Rad	Lead	7439-92-1	μg/kg	4,278	_d	1.92E+01	d	
100-B-8:2_Deep		Mercury	7439-97-6	μg/kg	145	80,585	1.92E+01	4,197	No
100-B-8:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,590	f	1.92E+01	_f	
100-B-8:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.1	_ c	1.92E+01	_c	N/A/A
100-B-8:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	13	c	1.92E+01	_c	
100-B-8:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.56	c	1.92E+01	_c	an na
100-B-8:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.1	c	1.92E+01	c	
100-B-8:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.99	c	1.92E+01	_ c	
100-B-8:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.76	c	1.92E+01	C	Who will be a second of the se
100-B-8:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	c	1.92E+01	_c	***
100-B-8:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	c	1.92E+01	c	
100-B-8:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.53	-C	1.92E+01	_c	
100-B-8:2_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	16,449	_d	3.09E+01	d	
100-B-8:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	555	6,000 ^e	3.09E+01	6,000 ^e	No
100-B-8:2_Shallow_1	non-Rad	Lead	7439-92-1	μg/kg	5,532	d	3.09E+01	d	***
100-B-8:2_Shallow_1	non-Rad	Mercury	7439-97-6	μg/kg	23	80,585	3.09E+01	2,608	No
100-B-8:2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,664	_f	3.09E+01	_f	
100-B-8:2_Shallow_1	Rad	Americium-241	14596-10-2	pCi/g	0.28	_c	3.09E+01	c	
100-B-8:2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.62	_c	3.09E+01	_c	
100-B-8:2_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.095	_ c	3.09E+01	_c	
100-B-8:2_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.32	_c	3.09E+01	c	
100-B-8:2_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	0.38	_c	3.09E+01	c	
100-B-8:2_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.36	_c	3.09E+01	_c	
100-B-8:2_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	c	3.09E+01	_c	
100-B-8:2_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	_c	3.09E+01	_c	_
100-B-8:2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.56	c	3.09E+01	_c	
100-B-8:2_Shallow_3		Chromium	7440-47-3	μg/kg	15,897	_d	4.97E+01	_d	
100-B-8:2_Shallow_3	non-Rad	Lead	7439-92-1	μg/kg	4,150	d	4.97E+01	d	
100-B-8:2_Shallow_3	non-Rad	Total_U_isotopes	Total_U_Isotopes	μg/kg	1,729	_f	4.97E+01	_f	
100-B-8:2_Shallow_3		Cesium-137	10045-97-3	pCi/g	0.55	c	4.97E+01	_c	
100-B-8:2_Shallow_3		Europium-152	14683-23-9	pCi/g	0.56	_c	4.97E+01	_c	
100-B-8:2_Shallow_3		Nickel-63	13981-37-8	pCi/g	3.6	_c	4.97E+01	c	
100-B-8:2_Shallow_3		Total beta radiostrontium	SR-RAD	pCi/g	1.8	_c	4.97E+01	c	
100-B-8:2_Shallow_3		Uranium-233/234	U-233/234	pCi/g	0.58	c	4.97E+01	c	
100-B-8:2_Shallow_3		Uranium-238	U-238	pCi/g	0.58	c	4.97E+01		duran
100-C-3_Shallow		Acetone	67-64-1	μg/kg	3.2	c	8.60E+00	c	
100-C-3_Shallow	non-Rad		7440-38-2	μg/kg	2,500	1.05E+07	8.60E+00	1.22E+06	No
100-C-3_Shallow	non-Rad		7440-39-3	μg/kg	62,500	c	8.60E+00	c	

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	269	c	8.60E+00	_c	-
100-C-3_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	278	500	8.60E+00	58	Yes
100-C-3_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,500	d	8.60E+00	d	
100-C-3_Shallow	non-Rad	Lead	7439-92-1	μg/kg	10,000	d	8.60E+00	d	
100-C-3_Shallow	non-Rad	Methylene chloride	75-09-2	μg/kg	16	c	8.60E+00	c	
100-C-3_Shallow	-	Selenium	7782-49-2	μg/kg	487	1,000	8.60E+00	116	Yes
100-C-3_Shallow		Silver	7440-22-4	μg/kg	112	826	8.60E+00	96	Yes
100-C-3_Shallow		Toluene	108-88-3	μg/kg	9.1	_ c	8.60E+00	c	
100-C-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,084	_f	8.60E+00	_f	
100-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	c	8.60E+00	_c	
100-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.71	_c	8.60E+00	_c	
100-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	c	8.60E+00	_ c	
100-C-7_Shallow_1		Aluminum	7429-90-5	μg/kg	7.17E+06	d	3.57E+01	d	
		Arsenic	7440-38-2	μg/kg	3,692	1.05E+07	3.57E+01	293,120	No
100-C-7_Shallow_1 100-C-7_Shallow_1		Barium	7440-39-3	μg/kg	57,480	c	3.57E+01	c	
			7440-41-7	µg/kg	288	c	3.57E+01	c	
100-C-7_Shallow_1		Beryllium	7440-41-7	_	1,157		3.57E+01	_c	
100-C-7_Shallow_1		Boron		μg/kg	-	c	3.57E+01		
100-C-7_Shallow_1		Cadmium	7440-43-9	μg/kg	92 9,051	500 d	3.57E+01 3.57E+01	14 d	Yes
100-C-7_Shallow_1		Chromium	7440-47-3	μg/kg				c	
100-C-7_Shallow_1		Cobalt	7440-48-4	µg/kg	7,957	c	3.57E+01		
100-C-7_Shallow_1		Copper	7440-50-8	μg/kg	15,161	93,717	3.57E+01	2,625	Yes
100-C-7_Shallow_1		Iron	7439-89-6	μg/kg	2.27E+07	2.61E+07	3.57E+01 3.57E+01	731,368	Yes
100-C-7_Shallow_1		Lead	7439-92-1	μg/kg	6,444	d			
100-C-7_Shallow_1	_	Manganese	7439-96-5	μg/kg	331,459	_c	3.57E+01	c	
100-C-7_Shallow_1		Mercury	7439-97-6	μg/kg	179	80,585	3.57E+01	2,257	No
100-C-7_Shallow_1		Molybdenum	7439-98-7	µg/kg	447	_c	3.57E+01	_c	
100-C-7_Shallow_1	non-Rad		7440-02-0	μg/kg	11,443	3.89E+08	3.57E+01	1.09E+07	No
100-C-7_Shallow_1		Vanadium	7440-62-2	µg/kg	63,129	_c	3.57E+01	c	
100-C-7_Shallow_1	non-Rad		7440-66-6	μg/kg	46,026	3.89E+08	3.57E+01	1.09E+07	No
100-C-7_Shallow_2		Aluminum	7429-90-5	μg/kg	3.74E+06	_d	3.59E+01	d	
100-C-7_Shallow_2	non-Rad		7440-38-2	μg/kg	1,398	1.05E+07	3.59E+01	291,487	No
100-C-7_Shallow_2	non-Rad		7440-39-3	µg/kg	44,286	c	3.59E+01	c	
100-C-7_Shallow_2		Beryllium	7440-41-7	µg/kg	188	c	3.59E+01	_c	**
100-C-7_Shallow_2		Cadmium	7440-43-9	μg/kg	73	500	3.59E+01	14	Yes
100-C-7_Shallow_2		Chromium	7440-47-3	µg/kg	2,573	_d	3.59E+01	d	400
100-C-7_Shallow_2	non-Rad	Cobalt	7440-48-4	μg/kg	7,736	_c	3.59E+01	_c	
100-C-7_Shallow_2	non-Rad		7440-50-8	μg/kg	14,385	93,717	3.59E+01	2,611	Yes
100-C-7_Shallow_2	non-Rad		7439-89-6	μg/kg	2.23E+07	2.61E+07	3.59E+01	727,294	Yes
100-C-7_Shallow_2	non-Rad	Lead	7439-92-1	μg/kg	2,259	d	3.59E+01	_d	-

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	ite Decision Units to STOMP 1	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection	Site Width in Direction of Groundwater Flow ^b (m)	Surface Water STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-7_Shallow_2	non-Rad	Manganese	7439-96-5	μg/kg	264,954	c	3.59E+01	-C	nerib
100-C-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	μg/kg	328	_c	3.59E+01	_c	
100-C-7_Shallow_2	non-Rad	Nickel	7440-02-0	μg/kg	5,081	3.89E+08	3.59E+01	1.08E+07	No
100-C-7_Shallow_2	non-Rad	Vanadium	7440-62-2	μg/kg	58,819	c	3.59E+01	c	
100-C-7_Shallow_2	non-Rad	Zinc	7440-66-6	μg/kg	37,568	3.89E+08	3.59E+01	1.08E+07	No
100-C-7:1_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg	8.10E+06	d	5.54E+01	_d	
100-C-7:1_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	3,482	1.05E+07	5.54E+01	188,888	No
100-C-7:1_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	63,124	c	5.54E+01	C	
100-C-7:1_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	295	_c	5.54E+01	_ c	
100-C-7:1_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	1,608	c	5.54E+01	c	44
100-C-7:1_Shallow_1	non-Rad	Cadmium	7440-43-9	μg/kg	84	500	5.54E+01	9.0	Yes
100-C-7:1_Shallow_1		Chromium	7440-47-3	μg/kg	8,876	_d	5.54E+01	d	
100-C-7:1_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	8,282	_c	5.54E+01	C	
100-C-7:1_Shallow_1	non-Rad	Copper	7440-50-8	μg/kg	15,632	93,717	5.54E+01	1,692	Yes
100-C-7:1 Shallow 1	non-Rad		7439-89-6	μg/kg	2.24E+07	2.61E+07	5.54E+01	471,297	Yes
100-C-7:1_Shallow_1	non-Rad	Lead	7439-92-1	μg/kg	5,004	_d	5.54E+01	_d	
100-C-7:1_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	343,222	c	5.54E+01	_ c	-
100-C-7:1 Shallow_1	non-Rad	Mercury	7439-97-6	μg/kg	24	80,585	5.54E+01	1,455	No
100-C-7:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	μg/kg	373	_c	5.54E+01	_c	
100-C-7:1_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	10,250	3.89E+08	5.54E+01	7.02E+06	No
100-C-7:1_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	61,594	c	5.54E+01	c	
100-C-7:1_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg	44,300	3.89E+08	5.54E+01	7.02E+06	No
100-C-7:1_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg	4.54E+06	d	5.16E+01	_d	1010
100-C-7:1 Shallow 2	non-Rad	Arsenic	7440-38-2	μg/kg	1,420	1.05E+07	5.16E+01	202,798	No
100-C-7:1_Shallow_2	non-Rad	Barium	7440-39-3	μg/kg	57,186	c	5.16E+01	_c	
100-C-7:1_Shallow_2	non-Rad	Beryllium	7440-41-7	μg/kg	212	c	5.16E+01	c	1919
100-C-7:1_Shallow_2	non-Rad	Boron	7440-42-8	μg/kg	633	c	5.16E+01	_c	
100-C-7:1 Shallow 2	non-Rad	Cadmium	7440-43-9	μg/kg	45	500	5.16E+01	9.7	Yes
100-C-7:1_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	3,298	_d	5.16E+01	d	
100-C-7:1_Shallow_2	non-Rad	Cobalt	7440-48-4	μg/kg	7,114	_c	5.16E+01	_ c	
100-C-7:1 Shallow 2		Copper	7440-50-8	μg/kg	12,752	93,717	5.16E+01	1,816	Yes
100-C-7:1_Shallow_2		Hexavalent Chromium	18540-29-9	μg/kg	620	6,000 ^e	5.16E+01	6,000 ^e	No
100-C-7:1 Shallow 2	non-Rad	Iron	7439-89-6	μg/kg	2.03E+07	2.61E+07	5.16E+01	506,005	Yes
100-C-7:1_Shallow_2	non-Rad		7439-92-1	μg/kg	1,807	_d	5.16E+01	d	
100-C-7:1_Shallow_2	non-Rad	Manganese	7439-96-5	μg/kg	292,818	c	5.16E+01	_c	
100-C-7:1_Shallow_2		Molybdenum	7439-98-7	μg/kg	315	_ c	5.16E+01	_c	
100-C-7:1_Shallow_2	non-Rad		7440-02-0	µg/kg	5,395	3.89E+08	5.16E+01	7.54E+06	No
100-C-7:1_Shallow_2		Vanadium	7440-62-2	μg/kg	55,467	c	5.16E+01	7.54L+00	
100-C-7:1_Shallow_2	non-Rad		7440-66-6	μg/kg	36,539	3.89E+08	5.16E+01	7.54E+06	No

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-7:1_Shallow_3	non-Rad	Aluminum	7429-90-5	μg/kg	7.89E+06	d	1.04E+02	d	49.00
100-C-7:1_Shallow_3	non-Rad	Arsenic	7440-38-2	μg/kg	2,617	1.05E+07	1.04E+02	101,105	No
100-C-7:1_Shallow_3	non-Rad	Barium	7440-39-3	μg/kg	73,483	_c	1.04E+02	_c	
100-C-7:1_Shallow_3	non-Rad	Beryllium	7440-41-7	μg/kg	298	c	1.04E+02	_c	
100-C-7:1_Shallow_3	non-Rad	Boron	7440-42-8	μg/kg	1,770	_c	1.04E+02	c	
100-C-7:1_Shallow_3	non-Rad	Cadmium	7440-43-9	μg/kg	152	500	1.04E+02	4.8	Yes
100-C-7:1_Shallow_3	non-Rad	Chromium	7440-47-3	μg/kg	11,331	_d	1.04E+02	_d	
100-C-7:1_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	9,644	c	1.04E+02	_c	
100-C-7:1 Shallow 3	non-Rad	Copper	7440-50-8	μg/kg	18,845	93,717	1.04E+02	905	Yes
100-C-7:1_Shallow_3		Iron	7439-89-6	μg/kg	2.84E+07	2.61E+07	1.04E+02	252,269	Yes
100-C-7:1_Shallow_3	non-Rad	Lead	7439-92-1	μg/kg	4,032	_d	1.04E+02	_d	-
100-C-7:1_Shallow_3	non-Rad	Manganese	7439-96-5	μg/kg	358,358	c	1.04E+02	C C	
100-C-7:1_Shallow_3	non-Rad	Mercury	7439-97-6	μg/kg	12	80,585	1.04E+02	779	No
100-C-7:1_Shallow_3	non-Rad	Molybdenum	7439-98-7	μg/kg	645	c	1.04E+02	_c	
100-C-7:1_Shallow_3	non-Rad	Nickel	7440-02-0	μg/kg	10,337	3.89E+08	1.04E+02	3.76E+06	No
100-C-7:1_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg	81,618	c	1.04E+02	_c	
100-C-7:1_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	50,985	3.89E+08	1.04E+02	3.76E+06	No
100-C-9:1_Deep_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	3.88E+06	_d	2.00E+00	_ d	
100-C-9:1_Deep_Focused	non-Rad	Antimony	7440-36-0	μg/kg	430	c	2.00E+00	_c	***
100-C-9:1 Deep Focused	non-Rad	Arsenic	7440-38-2	μg/kg	2,700	1.05E+07	2.00E+00	5.23E+06	No
100-C-9:1_Deep_Focused	_	Barium	7440-39-3	μg/kg	46,000	_c	2.00E+00	_c	
100-C-9:1_Deep_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	1,800	c	2.00E+00	c	
100-C-9:1_Deep_Focused	non-Rad	Boron	7440-42-8	μg/kg	2,900	c	2.00E+00	_c	
100-C-9:1_Deep_Focused		Cadmium	7440-43-9	μg/kg	60	500	2.00E+00	250	No
100-C-9:1_Deep_Focused		Chromium	7440-47-3	μg/kg	16,100	d	2.00E+00	_d	
100-C-9:1_Deep_Focused		Cobalt	7440-48-4	μg/kg	9,100	c	2.00E+00	_c	
100-C-9:1_Deep_Focused	non-Rad		7440-50-8	μg/kg	37,300	93,717	2.00E+00	46,859	No
100-C-9:1_Deep_Focused		Hexavalent Chromium	18540-29-9	μg/kg	1,700	6,000°	2.00E+00	6,000 ^e	No
100-C-9:1 Deep Focused	non-Rad		7439-89-6	μg/kg	2.69E+07	2.61E+07	2.00E+00	1.31E+07	Yes
100-C-9:1_Deep_Focused	non-Rad	ATTO	7439-92-1	μg/kg	15,300	_d	2.00E+00	_d	an de
100-C-9:1_Deep_Focused		Lithium	7439-93-2	μg/kg	3,400	_c	2.00E+00	c	
100-C-9:1_Deep_Focused		Manganese	7439-96-5	μg/kg	311,000	_c	2.00E+00	_ c	
100-C-9:1_Deep_Focused		Mercury	7439-97-6	μg/kg	2,900	80,585	2.00E+00	40,293	No
100-C-9:1 Deep Focused		Molybdenum	7439-98-7	μg/kg	620	_c	2.00E+00	_ c	****
100-C-9:1 Deep Focused	non-Rad		7440-02-0	μg/kg	6,800	3.89E+08	2.00E+00	1.95E+08	No
100-C-9:1_Deep_Focused		Strontium	7440-24-6	μg/kg	18,200	_c	2.00E+00	c	
100-C-9:1_Deep_Focused	non-Rad		7440-31-5	μg/kg	4,500	_c	2.00E+00	_c	
100-C-9:1_Deep_Focused		Vanadium	7440-62-2	μg/kg	66,300	c	2.00E+00	_c	
100-C-9:1_Deep_Focused	non-Rad		7440-66-6	µg/kg	47,600	3.89E+08	2.00E+00	1.95E+08	No

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ³ $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	Strace Water STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-9:1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	_c	2.00E+00	_c	
100-C-9:1_Shallow_1	non-Rad	Antimony	7440-36-0	μg/kg	470	_c	1.12E+02	_c	
100-C-9:1_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	3,304	1.05E+07	1.12E+02	93,432	No
100-C-9:1_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	68,483	_c	1.12E+02	_c	
100-C-9:1_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	328	_c	1.12E+02	_ c	
100-C-9:1 Shallow 1		Boron	7440-42-8	μg/kg	836	_c	1.12E+02	_ c	
100-C-9:1_Shallow_1		Cadmium	7440-43-9	μg/kg	145	500	1.12E+02	4.5	Yes
100-C-9:1_Shallow_1		Chromium	7440-43-3	μg/kg	8,505	d	1.12E+02	4.5	
100-C-9:1_Shallow_1	non-Rad		7440-48-4	μg/kg	8,098		1.12E+02	_ c	
100-C-9:1_Shallow_1			7440-50-8	_					
100-C-9:1_Shallow_1		Copper Hexavalent Chromium	18540-29-9	μg/kg	16,720 421	93,717	1.12E+02 1.12E+02	837	Yes
				μg/kg		6,000 ^e		6,000 ^e	No
100-C-9:1_Shallow_1	non-Rad		7439-92-1	μg/kg	4,050	_d	1.12E+02	d	
100-C-9:1_Shallow_1		Manganese	7439-96-5	μg/kg	316,608	^c	1.12E+02	_c	
100-C-9:1_Shallow_1	non-Rad		7439-97-6	μg/kg	44	80,585	1.12E+02	720	No
100-C-9:1_Shallow_1		Molybdenum	7439-98-7	μg/kg	424	-c	1.12E+02	c	
100-C-9:1_Shallow_1	non-Rad		7440-02-0	μg/kg	10,764	3.89E+08	1.12E+02	3.47E+06	No
100-C-9:1_Shallow_1		Selenium	7782-49-2	μg/kg	474	1,000	1.12E+02	8.9	Yes
100-C-9:1_Shallow_1		Silver	7440-22-4	μg/kg	81	826	1.12E+02	7.4	Yes
100-C-9:1_Shallow_1		Vanadium	7440-62-2	μg/kg	46,252	c	1.12E+02	c c	
100-C-9:1_Shallow_1		Zinc	7440-66-6	μg/kg	40,749	3.89E+08	1.12E+02	3.47E+06	No
100-C-9:1_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg	6.76E+06	d	2.61E+01	_d	
100-C-9:1_Shallow_2	non-Rad	Antimony	7440-36-0	μg/kg	513	c	2.61E+01	_c	
100-C-9:1_Shallow_2	non-Rad	Arsenic	7440-38-2	μg/kg	4,983	1.05E+07	2.61E+01	400,935	No
100-C-9:1_Shallow_2	non-Rad	Barium	7440-39-3	μg/kg	75,252	_c	2.61E+01	_ c	
100-C-9:1_Shallow_2	non-Rad	Beryllium	7440-41-7	μg/kg	398	_c	2.61E+01	_c	**
100-C-9:1_Shallow_2	non-Rad	Boron	7440-42-8	μg/kg	1,235	c	2.61E+01	_c	
100-C-9:1_Shallow_2	non-Rad	Cadmium	7440-43-9	μg/kg	260	500	2.61E+01	19	Yes
100-C-9:1_Shallow_2	_	Chromium	7440-47-3	μg/kg	16,359	d	2.61E+01	d	
100-C-9:1 Shallow 2	non-Rad	Cobalt	7440-48-4	μg/kg	9,787	_c	2.61E+01	_c	
100-C-9:1 Shallow 2	non-Rad		7440-50-8	μg/kg	18,114	93,717	2.61E+01	3,591	Yes
100-C-9:1_Shallow_2		Hexavalent Chromium	18540-29-9	μg/kg	426	6,000°	2.61E+01	6,000°	No
100-C-9:1_Shallow_2	non-Rad		7439-89-6	μg/kg	2.35E+07	2.61E+07	2.61E+01	1.00E+06	Yes
100-C-9:1_Shallow 2	non-Rad		7439-92-1	μg/kg	6,459	d	2.61E+01	1.00E+00	
100-C-9:1_Shallow_2		Lithium	7439-93-2	_	8,109	c	2.61E+01		
				μg/kg					
100-C-9:1_Shallow_2		Manganese	7439-96-5	μg/kg	402,742	c	2.61E+01	c	
100-C-9:1_Shallow_2		Mercury	7439-97-6	μg/kg	1,886	80,585	2.61E+01	3,088	No
100-C-9:1_Shallow_2		Molybdenum	7439-98-7	μg/kg	367	c	2.61E+01	_c	
100-C-9:1_Shallow_2	non-Rad		7440-02-0	μg/kg	12,476	3.89E+08	2.61E+01	1.49E+07	No
100-C-9:1_Shallow_2	non-Rad	Strontium	7440-24-6	μg/kg	28,900	c	2.61E+01	c	-

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-9:1_Shallow_2	non-Rad		7440-31-5	μg/kg	3,100	c	2.61E+01	_c	
100-C-9:1_Shallow_2	non-Rad	Vanadium	7440-62-2	μg/kg	49,792	c	2.61E+01	_c	**
100-C-9:1_Shallow_2	non-Rad	Zinc	7440-66-6	μg/kg	48,244	3.89E+08	2.61E+01	1.49E+07	No
100-C-9:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,200	1.05E+07	3.49E+02	30,010	No
100-C-9:1_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	162,000	c	3.49E+02	_c	
100-C-9:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	340	500	3.49E+02	1.4	Yes
100-C-9:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	17,300	d	3.49E+02	d	-
100-C-9:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	396	6,000 ^e	3.49E+02	6,000 ^e	No
100-C-9:1 Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	4,900	d	3.49E+02	_d	
100-C-9:1 Shallow Focused		Selenium	7782-49-2	μg/kg	430	1,000	3.49E+02	2.9	Yes
100-C-9:2 Shallow		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	1.2	c	1.17E+01	_c	
100-C-9:2_Shallow	non-Rad	Aluminum	7429-90-5	μg/kg	5.49E+06	_d	1.17E+01	_d	
100-C-9:2_Shallow		Aroclor-1254	11097-69-1	μg/kg	21	d	1.17E+01	_d	
100-C-9:2 Shallow		Arsenic	7440-38-2	μg/kg	2,827	1.05E+07	1.17E+01	894,393	No
100-C-9:2_Shallow		Barium	7440-39-3	μg/kg	62,909	c	1.17E+01	_c	
100-C-9:2_Shallow		Benzo(a)anthracene	56-55-3	μg/kg	41	c	1.17E+01	_c	
100-C-9:2_Shallow		Benzo(a)pyrene	50-32-8	μg/kg	48	c	1.17E+01	C	
100-C-9:2_Shallow		Benzo(b)fluoranthene	205-99-2	μg/kg	41	c	1.17E+01	_c	
		Benzo(k)fluoranthene	207-08-9	_	45	c	1.17E+01		**
100-C-9:2_Shallow				μg/kg			1.17E+01		-
100-C-9:2_Shallow		Beryllium	7440-41-7	μg/kg	454	c		c	
100-C-9:2_Shallow		Cadmium	7440-43-9	μg/kg	258	500	1.17E+01 1.17E+01	43 d	Yes
100-C-9:2_Shallow		Chromium	7440-47-3	μg/kg	8,580	d			
100-C-9:2_Shallow		Chrysene	218-01-9	μg/kg	55	_c	1.17E+01	c	
100-C-9:2_Shallow	non-Rad		7440-48-4	μg/kg	7,997	c	1.17E+01	c	-
100-C-9:2_Shallow		Copper	7440-50-8	μg/kg	15,494	93,717	1.17E+01	8,010	Yes
100-C-9:2_Shallow	non-Rad		60-57-1	μg/kg	1.7	58	1.17E+01	4.9	No
100-C-9:2_Shallow		Fluoranthene	206-44-0	μg/kg	81	_c	1.17E+01	_c	
100-C-9:2_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	324	6,000 ^e	1.17E+01	6,000°	No
100-C-9:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	29	т.с	1.17E+01	c	
100-C-9:2_Shallow	non-Rad		7439-89-6	μg/kg	1.94E+07	2.61E+07	1.17E+01	2.23E+06	Yes
100-C-9:2_Shallow	non-Rad	Lead	7439-92-1	μg/kg	13,131	d	1.17E+01	d	
100-C-9:2_Shallow	non-Rad	Lithium	7439-93-2	μg/kg	6,540	c	1.17E+01	c	
100-C-9:2_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	341,053	_c	1.17E+01	c	-
100-C-9:2_Shallow		Mercury	7439-97-6	μg/kg	40	80,585	1.17E+01	6,888	No
100-C-9:2_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	418	c	1.17E+01	_c	-
100-C-9:2_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	10,637	3.89E+08	1.17E+01	3.32E+07	No
100-C-9:2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	94	_c	1.17E+01	c	
100-C-9:2_Shallow	non-Rad	Strontium	7440-24-6	μg/kg	22,407	_c	1.17E+01	c	
100-C-9:2_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	46,900	c	1.17E+01	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
100-C-9:2_Shallow		Zinc	7440-66-6	μg/kg	263,884	3.89E+08	1.17E+01	3.32E+07	No
100-C-9:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	c	1.17E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	3.5	c	1.48E+01	c	
100-C-9:2_Shallow_Focused		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	14	c	1.48E+01	_c	ere .
100-C-9:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	5.1	d	1.48E+01	_d	
100-C-9:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	6.30E+06	d	1.48E+01	_d	
100-C-9:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	970	c	1.48E+01	_c	-
100-C-9:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	μg/kg	120	d	1.48E+01	d	
100-C-9:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	11	d	1.48E+01	d	
100-C-9:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,400	1.05E+07	1.48E+01	707,054	No
100-C-9:2_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	74,100	c	1.48E+01	_c	-
100-C-9:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	22	c	1.48E+01	_ C	***
100-C-9:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	73	c	1.48E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	23	c	1.48E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	510	c	1.48E+01	_c	-
100-C-9:2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	250	_c	1.48E+01	c	
100-C-9:2_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	5,100	c	1.48E+01	_c	de
100-C-9:2 Shallow Focused	non-Rad	Cadmium	7440-43-9	μg/kg	500	500	1.48E+01	34	Yes
100-C-9:2_Shallow_Focused	non-Rad	Chlordane	57-74-9	μg/kg	1.6	24,442	1.48E+01	1,651	No
100-C-9:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	16,500	d	1.48E+01	_d	••
100-C-9:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	μ g/k g	82	c	1.48E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	8,900	c	1.48E+01	c	
100-C-9:2_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	66,100	93,717	1.48E+01	6,332	Yes
100-C-9:2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	40	c	1.48E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad	Endosulfan I	959-98-8	μg/kg	0.64	4.2	1.48E+01	0.28	Yes
100-C-9:2_Shallow_Focused	non-Rad		72-20-8	μg/kg	3.6	3.0	1.48E+01	0.20	Yes
100-C-9:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	830	6,000 ^e	1.48E+01	6,000 ^e	No
100-C-9:2_Shallow_Focused	non-Rad		7439-89-6	μg/kg	3.18E+07	2.61E+07	1.48E+01	1.76E+06	Yes
100-C-9:2_Shallow_Focused	non-Rad		7439-92-1	μg/kg	152,000	d	1.48E+01	d	
100-C-9:2_Shallow_Focused	non-Rad	Lithium	7439-93-2	μg/kg	7,200	c	1.48E+01	c	***
100-C-9:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	456,000	c	1.48E+01	_C	**
100-C-9:2_Shallow_Focused		Mercury	7439-97-6	μg/kg	850	80,585	1.48E+01	5,445	No
100-C-9:2_Shallow_Focused		Methoxychlor	72-43-5	μg/kg	7.3	d	1.48E+01	d	
100-C-9:2_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	1,900	c	1.48E+01	_c	
100-C-9:2_Shallow_Focused	non-Rad		7440-02-0	μg/kg	22,000	3.89E+08	1.48E+01	2.63E+07	No
100-C-9:2_Shallow_Focused	10.10	Strontium	7440-24-6	μg/kg	32,700	c	1.48E+01	c	
100-C-9:2_Shallow_Focused		Vanadium	7440-62-2	μg/kg	58,400	c	1.48E+01	_c	-
100-C-9:2_Shallow_Focused	non-Rad	the state of the s	7440-66-6	μg/kg	111,000	3.89E+08	1.48E+01	2.63E+07	No
100-C-9:3_Deep_Focused	non-Rad	2-Methylnaphthalene	91-57-6	μg/kg	1,100	c	2.00E+00	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water
100-C-9:3_Deep_Focused	non-Rad	Acenaphthene	83-32-9	μg/kg	6,800	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	6.51E+06	_d	2.00E+00	_d	-
100-C-9:3_Deep_Focused	non-Rad	Anthracene	120-12-7	μg/kg	13,000	_c	2.00E+00	-c	
100-C-9:3_Deep_Focused	non-Rad	Antimony	7440-36-0	μg/kg	2,100	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	6,500	1.05E+07	2.00E+00	5.23E+06	No
100-C-9:3_Deep_Focused	non-Rad	Barium	7440-39-3	μg/kg	66,700	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	20,000	c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	13,000	c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	11,000	c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	12,000	c	2.00E+00	_c	
100-C-9:3 Deep Focused	non-Rad	Beryllium	7440-41-7	μg/kg	330	c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Boron	7440-42-8	μg/kg	1,300	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	200	500	2.00E+00	250	No
100-C-9:3_Deep_Focused	non-Rad	Carbazole	86-74-8	μg/kg	7,300	_c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Chromium	7440-47-3	μg/kg	12,800	d	2.00E+00	d	
100-C-9:3 Deep Focused	non-Rad	Chrysene	218-01-9	μg/kg	20,000	c	2.00E+00	_c	
100-C-9:3 Deep_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,200	c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Copper	7440-50-8	μg/kg	19,600	93,717	2.00E+00	46,859	No
100-C-9:3_Deep_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	μg/kg	2,200	_c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Dibenzofuran	132-64-9	μg/kg	3,000	_c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	52,000	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Fluorene	86-73-7	μg/kg	5,800	¢	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	610	6,000 ^e	2.00E+00	6,000 ^e	No
100-C-9:3_Deep_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	5,600	_c	2.00E+00	_c	
100-C-9:3 Deep_Focused	non-Rad	Iron	7439-89-6	μg/kg	2.55E+07	2.61E+07	2.00E+00	1.31E+07	Yes
100-C-9:3_Deep_Focused		Isophorone	78-59-1	μg/kg	280	_c	2.00E+00	c	-
100-C-9:3_Deep_Focused	non-Rad	Lead	7439-92-1	μg/kg	6,300	d	2.00E+00	d	
100-C-9:3_Deep_Focused	non-Rad	Manganese	7439-96-5	μg/kg	412,000	c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	640	_c	2.00E+00	c	
100-C-9:3_Deep_Focused	non-Rad	Naphthalene	91-20-3	μg/kg	2,100	_c	2.00E+00	_c	
100-C-9:3_Deep_Focused	non-Rad	Nickel	7440-02-0	μg/kg	14,500	3.89E+08	2.00E+00	1.95E+08	No
100-C-9:3_Deep_Focused	non-Rad		129-00-0	μg/kg	35,000	_c	2.00E+00	c	-
100-C-9:3_Deep_Focused	non-Rad	Silver	7440-22-4	μg/kg	140	826	2.00E+00	413	No
100-C-9:3_Deep_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	63,900	_c	2.00E+00	_c	-
100-C-9:3_Deep_Focused	non-Rad	Zinc	7440-66-6	μg/kg	54,900	3.89E+08	2.00E+00	1.95E+08	No
116-B-1_Deep	non-Rad	Chromium	7440-47-3	μg/kg	16,456	d	2.00E+01	_d	
116-B-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	363	6,000 ^e	2.00E+01	6,000 ^e	No
116-B-1_Deep	non-Rad	Lead	7439-92-1	μg/kg	4,795	d	2.00E+01	_d	
116-B-1_Deep	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	2.00E+01	4,029	No

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-1_Deep	non-Rad	Total_U_Isotopes	Total_U_isotopes	μg/kg	2,834	_1	2.00E+01	_f	-
116-B-1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.052	c	2.00E+01	c	-
116-B-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.1	c	2.00E+01	-c	
116-B-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	c	2.00E+01	c	no no
116-B-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	7.1	_c	2.00E+01	c	
116-B-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.36	_c	2.00E+01	_c	
116-B-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	c	2.00E+01	_c	
116-B-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	_c	2.00E+01	_c	-
116-B-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.1	c	2.00E+01	_c	
116-B-1_Deep		Uranium-235	15117-96-1	pCi/g	0.045	c	2.00E+01	_c	
116-B-1_Deep		Uranium-238	U-238	pCi/g	0.95	_c	2.00E+01	_c	
116-B-1_Shallow		Chromium	7440-47-3	μg/kg	12,550	_d	1.08E+01	_d	
116-B-1_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	1,613	6,000 ^e	1.08E+01	6,000 ^e	No
116-B-1_Shallow		Lead	7439-92-1	μg/kg	5,699	d	1.08E+01	_d	-
116-B-1_Shallow		Mercury	7439-97-6	μg/kg	19	80,585	1.08E+01	7,462	No
116-B-1_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,247	_f	1.08E+01	_f	**
116-B-1_Shallow		Cesium-137	10045-97-3	pCi/g	0.19	_c	1.08E+01	_c	
116-B-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	c	1.08E+01	_c	
116-B-1_Shallow		Europium-152	14683-23-9	pCi/g	0.75	c	1.08E+01	_c	
116-B-1_Shallow		Europium-154	15585-10-1	pCi/g	0.18	_c	1.08E+01	_c	
116-B-1_Shallow		Plutonium-239/240	PU-239/240	pCi/g	0.031	_c	1.08E+01	_c	
116-B-1_Shallow		Uranium-233/234	U-233/234	pCi/g	0.72	_c	1.08E+01	_c	••
116-B-1_Shallow		Uranium-238	U-238	pCi/g	0.75	c	1.08E+01	_c	
116-B-10 Shallow		Chromium	7440-47-3	μg/kg	23,800	_d	8.40E+00	d	
116-B-10_Shallow	non-Rad		7439-92-1	μg/kg	8,000	_d	8.40E+00	_d	
116-B-10 Shallow	non-Rad		7439-97-6	μg/kg	1,300	80,585	8.40E+00	9,593	No
116-B-10_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,122	f	8.40E+00	f	
116-B-10 Shallow		Cesium-137	10045-97-3	pCi/g	0.034	c	8.40E+00	_c	
116-B-10_Shallow		Cobalt-60	10198-40-0	pCi/g	0.080	c	8.40E+00	_c	
116-B-10 Shallow		Europium-152	14683-23-9	pCi/g	0.053	c	8.40E+00	c	***
116-B-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	_c	8.40E+00	_c	
116-B-10_Shallow	_	Uranium-238	U-238	pCi/g	0.71	_c	8.40E+00	_c	
116-B-11_Deep		Chromium	7440-47-3	μg/kg	231,428	_d	8.57E+01	_d	
116-B-11_Deep		Hexavalent Chromium	18540-29-9	μg/kg	1,226	6,000 ^e	8.57E+01	6,000 ^e	No
116-B-11_Deep	non-Rad		7439-92-1	μg/kg	11,745	d	8.57E+01	-d	
116-B-11_Deep		Mercury	7439-97-6	μg/kg	5,251	80,585	8.57E+01	940	Yes
116-B-11_Deep	non-Rad	Total U Isotopes	Total_U_Isotopes	μg/kg	4,297	-f	8.57E+01	f	
116-B-11_Deep		Americium-241	14596-10-2	pCi/g	5.1	_c	8.57E+01	_c	-

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-11_Deep	Rad	Cesium-137	10045-97-3	pCi/g	122	c	8.57E+01	_c	-
116-B-11_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	40	c	8.57E+01	_c	
116-B-11_Deep	Rad	Europium-152	14683-23-9	pCi/g	325	c	8.57E+01	c	
116-B-11_Deep	Rad	Europium-154	15585-10-1	pCi/g	42	c	8.57E+01	_c	40
116-B-11_Deep	Rad	Europium-155	14391-16-3	pCi/g	2.2	¢	8.57E+01	c	
116-B-11_Deep	Rad	Nickel-63	13981-37-8	pCi/g	2,702	c	8.57E+01	c	
116-B-11_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.76	c	8.57E+01	_c	
116-B-11_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	19	c	8.57E+01	_c	
116-B-11_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.8	c	8.57E+01	_c	
116-B-11_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.6	c	8.57E+01	_c	
116-B-11_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.069	c	8.57E+01	_c	
116-B-11_Deep	Rad	Uranium-238	U-238	pCi/g	1.4	c	8.57E+01	_ c	
116-B-11_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	13,637	_d	6.80E+00	_d	**
116-B-11_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	1,670	6,000 ^e	6.80E+00	6,000 ^e	No
116-B-11_Shallow	non-Rad	Lead	7439-92-1	μg/kg	7,063	_d	6.80E+00	d	
116-B-11_Shallow		Mercury	7439-97-6	μg/kg	121	80,585	6.80E+00	11,851	No
116-B-11_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	3,928	_f	. 6.80E+00	f	
116-B-11_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.094	c c	6.80E+00	_c	
116-B-11_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.92	c	6.80E+00	c	
116-B-11_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	_c	6.80E+00	_c	
116-B-11_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.9	c	6.80E+00	_c	
116-B-11_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	22	c	6.80E+00	_c	
116-B-11_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.069	c	6.80E+00	c	
116-B-11_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.34	c	6.80E+00	_c	
116-B-11_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.3	c	6.80E+00	_c	
116-B-11_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.057	_c	6.80E+00	_c	
116-B-11_Shallow	Rad	Uranium-238	U-238	pCi/g	1.3	c	6.80E+00	_c	**
116-B-12_Deep		Chromium	7440-47-3	μg/kg	10,800	d	1.52E+01	_d	
116-B-12_Deep		Hexavalent Chromium	18540-29-9	μg/kg	860	6,000 ^e	1.52E+01	6,000 ^e	No
116-B-12_Deep		Lead	7439-92-1	μg/kg	5,700	_d .	1.52E+01	d	
116-B-12_Deep		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,048		1.52E+01	_1	
116-B-12_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.019	c	1.52E+01	_c	**
116-B-12_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	c	1.52E+01	_c	-
116-B-12_Deep	Rad	Uranium-238	U-238	pCi/g	0.69	c	1.52E+01	_с	-
116-B-12_Shallow		Chromium	7440-47-3	μg/kg	9,900	_d	1.59E+01	_d	-
116-B-12_Shallow	non-Rad		7439-92-1	μg/kg	5,600	_d	1.59E+01	_d	-
116-B-12_Shallow		Total U_Isotopes	Total_U_Isotopes	μg/kg	1,884		1.59E+01	_f	
116-B-12_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.034	c	1.59E+01	_c	-

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision of EPCs from 100-BC Operable Uni	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-12_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	c	1.59E+01	c	-
116-B-12_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.024	c	1.59E+01	c	**
116-B-12_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	_c	1.59E+01	c	
116-B-13_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	5,700	_d	2.46E+01	d	
116-B-13_Shallow	non-Rad	Lead	7439-92-1	μg/kg	2,300	_d	2.46E+01	d	
116-B-13_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	2.46E+01	3,276	No
116-B-13_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,975	f	2.46E+01		
116-B-13_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.49	_c	2.46E+01	c	
116-B-13_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049	_c	2.46E+01	c	
116-B-13_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	c	2.46E+01	_c	
116-B-13_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.41	_c	2.46E+01	c	
116-B-13_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.1	c	2.46E+01	c	
116-B-13_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.055	_c	2.46E+01	c	
116-B-13_Shallow		Uranium-238	U-238	pCi/g	0.99	c	2.46E+01	c	
 116-B-14_Deep	non-Rad	Aluminum	7429-90-5	μg/kg	7.92E+06	d	3.60E+00	d	
116-B-14_Deep	non-Rad	Antimony	7440-36-0	μg/kg	6,600	_c	3.60E+00	c	
116-B-14_Deep		Barium	7440-39-3	μg/kg	93,800	_c	3.60E+00	c	
116-B-14_Deep		Beryllium	7440-41-7	μg/kg	520	_c	3.60E+00	c	
116-B-14_Deep		Chromium	7440-47-3	μg/kg	18,600	d	3.60E+00	d	***
116-B-14_Deep		Cobalt	7440-48-4	μg/kg	8,600	_c	3.60E+00	c	
116-B-14_Deep		Copper	7440-50-8	μg/kg	17,400	93,717	3.60E+00	26,033	No
116-B-14_Deep	_	Hexavalent Chromium	18540-29-9	μg/kg	252	6,000 ^e	3.60E+00	6,000 ^e	No
116-B-14_Deep	non-Rad	Iron	7439-89-6	μg/kg	1.93E+07	2.61E+07	3.60E+00	7.25E+06	Yes
116-B-14_Deep	non-Rad	Lead	7439-92-1	μg/kg	5,300	_d	3.60E+00	d	
116-B-14_Deep	non-Rad	Manganese	7439-96-5	μg/kg	307,000	_c	3.60E+00	c	
116-B-14_Deep	non-Rad	Mercury	7439-97-6	μg/kg	18	80,585	3.60E+00	22,385	No
116-B-14_Deep	non-Rad		7440-02-0	μg/kg	17,900	3.89E+08	3.60E+00	1.08E+08	No
116-B-14_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	3,095	f	3.60E+00	f	
116-B-14_Deep	non-Rad	Vanadium	7440-62-2	μg/kg	39,600	c	3.60E+00	c	
116-B-14_Deep		Zinc	7440-66-6	μg/kg	42,300	3.89E+08	3.60E+00	1.08E+08	No
116-B-14_Deep	Rad	Cesium-137	10045-97-3	pCi/g	5.9	c	3.60E+00	c	
116-B-14_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.3	_c	3.60E+00	c	
116-B-14_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	c	3.60E+00	c	
116-B-14_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	_c	3.60E+00	_c	
116-B-14_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.99	c	3.60E+00	c	
116-8-14_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.063	_c	3.60E+00	c	
116-B-14_Deep	Rad	Uranium-238	U-238	pCi/g	1.0	_c	3.60E+00	_c	and .
116-B-14_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	33,600	d	3.40E+00	d	

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{pCi}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Protective of Surface Water?
116-B-14_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	297	6,000 ^e	3.40E+00	6,000 ^e	No
116-B-14_Shallow		Lead	7439-92-1	μg/kg	20,000	d	3.40E+00	_d	
116-B-14_Shallow	_	Mercury	7439-97-6	μg/kg	30	80,585	3.40E+00	23,702	No
116-B-14_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	4,346	_f	3.40E+00	_f	
116-B-14_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.26	c	3.40E+00	_c	
116-B-14_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	c	3.40E+00	_c	
116-B-14_Shallow	Rad	Europium-152	14683-23-9	pCi/g	4.4	c	3.40E+00	C	-
116-B-14_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.37	c	3.40E+00	_c	
116-B-14_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	c	3.40E+00	c	
116-B-14_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.5	C	3.40E+00	_c	
116-B-14_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.061	c	3.40E+00	C	
116-B-14_Shallow	Rad	Uranium-238	U-238	pCi/g	1.5	c	3.40E+00	c	
116-B-15_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	6,800	1.05E+07	1.79E+01	584,603	No
116-B-15_Shallow_Focused	non-Rad	Barium	7440-39-3	μ g /kg	89,000	c	1.79E+01	_c	
116-B-15_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	14,400	d	1.79E+01	_d	
116-B-15_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	9,300	d	1.79E+01	_d	
116-B-15_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	500	1,000	1.79E+01	56	Yes
116-B-15_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,983	f	1.79E+01	_f	
116-B-15_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	21	c	1.79E+01	_c	
116-B-15_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	c	1.79E+01	C	
116-B-15_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.67	c	1.79E+01	C	
116-B-2_Deep	non-Rad	Chromium	7440-47-3	μg/kg	12,000	d	1.49E+01	d	stream .
116-B-2_Deep	non-Rad		7439-92-1	μg/kg	6,600	d	1.49E+01	_d	
116-B-2_Deep		Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,658	. <u>_f</u>	1.49E+01	_f	
116-B-2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.11	c	1.49E+01	_c	
116-B-2_Deep		Cesium-137	10045-97-3	pCi/g	47	_c	1.49E+01	_c	
116-B-2_Deep		Cobalt-60	10198-40-0	pCi/g	0.023	_c	1.49E+01	_ c	
116-B-2_Deep		Europium-152	14683-23-9	pCi/g	0.60	_c	1.49E+01	c	
116-B-2_Deep		Plutonium-239/240	PU-239/240	pCi/g	0.59	_c	1.49E+01	_c	
116-B-2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	7.2	_c	1.49E+01	_c	
116-B-2_Deep		Uranium-233/234	U-233/234	pCi/g	0.58	_c	1.49E+01	_c	
116-B-2_Deep		Uranium-238	U-238	pCi/g	0.56	_c	1.49E+01	c	
116-B-2_Shallow		Chromium	7440-47-3	μg/kg	11,300	_d	7.70E+00	_d	en e
116-B-2_Shallow		Lead	7439-92-1	μg/kg	8,100	_d	7.70E+00	_d	
116-B-2_Shallow		Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,482	f	7.70E+00	_f	
116-B-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	C	7.70E+00	c	
116-B-2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	c	7.70E+00	c	
116-B-2_Shallow		Uranium-233/234	U-233/234	pCi/g	0.52	C West	7.70E+00	c	

	Table 7	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decisio	n Units to STOMP 1	70:30/	100:0 Contaminant	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil	els Protective of	Surface Water STOMP 1D 70:30/100:0 Contaminant Source Model	
Waste Site/Decision Unit	Analyte Group			Units	Exposure Point Concentration (µg/kg or pCi/g)	Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	_c	7.70E+00	_c	we did
116-B-3_Deep	non-Rad	Chromium	7440-47-3	μg/kg	10,400	_d	2.20E+00	_d	
116-B-3_Deep	non-Rad	Lead	7439-92-1	μg/kg	5,900	d	2.20E+00	_d	
116-B-3_Deep	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	2.20E+00	36,630	No
116-B-3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,727	f	2.20E+00	_f	
116-B-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	20	_c	2.20E+00	_c	
116-B-3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	c	2.20E+00	_c	
116-B-3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	3.2	_c	2.20E+00	_c	-
116-B-3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	_c	2.20E+00	_c	
116-B-3_Deep		Uranium-238	U-238	pCi/g	0.58	C restr	2.20E+00	_c	
116-B-3_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	9,800	_d	6.50E+00	d	
116-B-3_Shallow		Lead	7439-92-1	μg/kg	8,400	d	6.50E+00	d	
116-B-3_Shallow		Mercury	7439-97-6	μg/kg	50	80,585	6.50E+00	12,398	No
116-B-3_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,697	f	6.50E+00	_f	
116-B-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	_c	6.50E+00	_c	444
116-B-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	_c	6.50E+00	_c	
116-B-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	_c	6.50E+00	_c	
116-B-4_Deep	non-Rad	Acetone	67-64-1	μg/kg	12	_c	3.89E+01	_c	
116-B-4_Deep	non-Rad	Aluminum	7429-90-5	μg/kg	7.62E+06	_d	3.89E+01	_d	
116-B-4_Deep		Antimony	7440-36-0	μg/kg	6,701	_c	3.89E+01	_c	
116-B-4_Deep		Aroclor-1254	11097-69-1	μg/kg	130	_d	3.89E+01	_d	
116-B-4_Deep		Arsenic	7440-38-2	μg/kg	3,600	1.05E+07	3.89E+01	269,008	No
116-B-4_Deep		Barium	7440-39-3	μg/kg	50,733	c	3.89E+01	c	
116-B-4_Deep	non-Rad	Beryllium	7440-41-7	μg/kg	459	_c	3.89E+01	C	
116-B-4_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	290	_c	3.89E+01	c	
	non-Rad		7440-43-9	μg/kg	394	500	3.89E+01	13	Yes
116-B-4_Deep	_	Chromium	7440-47-3	μg/kg	92,716	_d	3.89E+01	d	
116-B-4_Deep	non-Rad	Cobalt	7440-48-4	μg/kg	8,845	_ c	3.89E+01	_c	
116-B-4_Deep	non-Rad	Copper	7440-50-8	μg/kg	21,616	93,717	3.89E+01	2,409	Yes
116-B-4_Deep		Hexavalent Chromium	18540-29-9	μg/kg	423	6,000 ^e	3.89E+01	6,000 ^e	No
116-B-4_Deep	non-Rad	Iron	7439-89-6	μg/kg	2.30E+07	2.61E+07	3.89E+01	671,204	Yes
116-B-4_Deep	non-Rad	Lead	7439-92-1	μg/kg	94,296	d	3.89E+01	_d	
116-B-4_Deep	non-Rad	Manganese	7439-96-5	μg/kg	206,278	_c	3.89E+01	_c	
116-B-4_Deep	non-Rad	Mercury	7439-97-6	μg/kg	440	80,585	3.89E+01	2,072	No
116-B-4_Deep	non-Rad	Methylene chloride	75-09-2	μg/kg	8.0	_c	3.89E+01	_c	
116-B-4_Deep	non-Rad		7440-02-0	μg/kg	6,185	3.89E+08	3.89E+01	1.00E+07	No
116-B-4_Deep	non-Rad		7440-22-4	μg/kg	720	826	3.89E+01	21	Yes
116-B-4_Deep		Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,643	_f	3.89E+01	f	
116-B-4_Deep	non-Rad	Vanadium	7440-62-2	μg/kg	53,083	c	3.89E+01	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-4_Deep	non-Rad	Zinc	7440-66-6	μg/kg	43,911	3.89E+08	3.89E+01	1.00E+07	No
116-B-4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.070	c	3.89E+01	c	
116-B-4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	112	c	3.89E+01	c	
116-B-4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	c	3.89E+01	c	**
116-B-4_Deep	Rad	Europium-152	14683-23-9	pCi/g	195	c	3.89E+01	c	
116-B-4_Deep	Rad	Europium-154	15585-10-1	pCi/g	45	c	3.89E+01	_c	-
116-B-4_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.3	c	3.89E+01	_c	-
116-B-4_Deep	Rad	Niobium-94	14681-63-1	pCi/g	0.34	c	3.89E+01	_c	-
116-B-4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	c	3.89E+01	_c	
116-B-4_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	c	3.89E+01	_c	
116-B-4_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	9,900	d	1.00E+01	_d	-
116-B-4_Shallow	non-Rad	Lead	7439-92-1	μg/kg	5,800	_d	1.00E+01	d	-
116-B-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,881	_f	1.00E+01	_f	-
116-B-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049	c	1.00E+01	_c	-
116-B-4_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	c	1.00E+01	_c	-
116-B-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	c	1.00E+01	_ c	
116-B-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	c	1.00E+01	c	
116-B-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	_c	1.00E+01	_c	-
116-B-5_Deep_Focused	non-Rad	Mercury	7439-97-6	μg/kg	2,800	80,585	1.85E+01	4,356	No
116-B-5_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.29	c	1.85E+01	c	
116-B-5_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.94	c	1.85E+01	_c	
116-B-5_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	10.0	_c	1.85E+01	c	-
116-B-5_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	0.88	C C	1.85E+01	_c	-
116-B-5_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	300,000	c	3.76E+01	c	
116-B-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	16,000	80,585	3.76E+01	2,143	Yes
116-B-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.8	c	3.76E+01	c	
116-B-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.0	c	3.76E+01	c	**
116-B-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	7.3	c	3.76E+01	c	
116-B-5_Shallow_Focused	Rad	Europium-154	15585-10-1	pCi/g	0.67	c	3.76E+01	c	
116-B-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	680	_c	3.76E+01	_c	-
116-B-6A_Deep	non-Rad	Chromium	7440-47-3	μg/kg	7,100	_d	1.10E+01	_d	
116-B-6A_Deep	non-Rad	Lead	7439-92-1	μg/kg	5,900	_d	1.10E+01	_d	
116-B-6A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,735	_f	1.10E+01	_f	
116-B-6A_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.16	_c	1.10E+01	_c	
116-B-6A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.0	_c	1.10E+01	_c	-
116-B-6A_Deep		Plutonium-239/240	PU-239/240	pCi/g	2.8	c	1.10E+01	_c	-
116-B-6A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	c	1.10E+01	_c	
116-B-6A_Deep		Uranium-233/234	U-233/234	pCi/g	0.55	_c	1.10E+01	_c	**

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Deci	CAS No.	0 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-6A_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.042	c	1.10E+01	_c	
116-B-6A_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	c	1.10E+01	c	was a
116-B-6A_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,700	_d	7.90E+00	d	
116-B-6A_Shallow	non-Rad	Lead	7439-92-1	μg/kg	11,100	d	7.90E+00	_d	
116-B-6A_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	7.90E+00	10,201	No
116-B-6A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,779	_f	7.90E+00	_f	-
116-B-6A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	37	c	7.90E+00	_c	
116-B-6A_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.23	c	7.90E+00	c	
116-B-6A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	3.3	_c	7.90E+00	_c	
116-B-6A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.4	c	7.90E+00	_c	
116-B-6A_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.28	c	7.90E+00	_c	
116-B-6A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	c	7.90E+00	_c	
116-B-6B_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	9,500	d	8.60E+00	_d	
116-B-6B_Shallow	non-Rad	Lead	7439-92-1	μg/kg	7,900	_d	8.60E+00	_d	
116-B-6B_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	40	80,585	8.60E+00	9,370	No
116-B-6B_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,917	f	8.60E+00	_f	
116-B-6B_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.030	c	8.60E+00	C	-
116-B-6B_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	c	8.60E+00	_c	
116-B-6B_Shallow	Rad	Uranium-238	U-238	pCi/g	0.64	, C	8.60E+00	_c	
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Chromium	7440-47-3	μg/kg	25,200	d	1.27E+01	d	
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	2,100	6,000 ^e	1.27E+01	6,000 ^e	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Lead	7439-92-1	μg/kg	8,800	_d	1.27E+01	_d	
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Mercury	7439-97-6	μg/kg	750	80,585	1.27E+01	6,345	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,525	f	1.27E+01	_f	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.5	c	1.27E+01	_c	/
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.18	c	1.27E+01	_c	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.4	c	1.27E+01	_c	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.3	c	1.27E+01	_c	***
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.40	_c	1.27E+01	_c	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.93	_c	1.27E+01	_ c	
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.053	c	1.27E+01	_c	-
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-238	U-238	pCi/g	0.84	c	1.27E+01	_c	-
116-B-7, 132-B-6, 132-C-2_Shallow		Chromium	7440-47-3	μg/kg	19,087	_d	2.09E+01	_d	
116-B-7, 132-B-6, 132-C-2_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	688	6,000°	2.09E+01	6,000 ^e	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad		7439-92-1	μg/kg	7,194	_d	2.09E+01	d	
116-B-7, 132-B-6, 132-C-2 Shallow		Mercury	7439-97-6	μg/kg	63	80,585	2.09E+01	3,856	No
116-B-7, 132-B-6, 132-C-2_Shallow		Total_U_Isotopes	Total_U_Isotopes		2,072	_f	2.09E+01	_f	
116-B-7, 132-B-6, 132-C-2_Shallow		Cesium-137	10045-97-3	pCi/g	0.34	_c	2.09E+01	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	c	2.09E+01	c	
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.9	c	2.09E+01	_c	
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.22	c	2.09E+01	_c	**
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	3.6	c	2.09E+01	C	
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.75	c	2.09E+01	C	
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.050	c	2.09E+01	_c	19.00
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69	c	2.09E+01	_c	
116-B-9_Shallow		Chromium	7440-47-3	μg/kg	13,200	d	7.10E+00	_d	
116-B-9_Shallow		Lead	7439-92-1	μg/kg	12,000	d	7.10E+00	_d	
116-B-9 Shallow		Mercury	7439-97-6	μg/kg	390	80,585	7.10E+00	11,350	No
116-B-9_Shallow		Total_U_Isotopes	Total_U_isotopes	μg/kg	1,372	f	7.10E+00	_f	**
116-B-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.44	C	7.10E+00	C	90 dd
116-B-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	c	7.10E+00	_c	where the same of
116-C-1_Deep	non-Rad	Chromium	7440-47-3	μg/kg	66,667	d	5.75E+01	_d	
116-C-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	497	6,000 ^e	5.75E+01	6,000 ^e	No
116-C-1_Deep	non-Rad	Lead	7439-92-1	μg/kg	21,737	d	5.75E+01	d	-
116-C-1_Deep		Mercury	7439-97-6	μg/kg	2,275	80,585	5.75E+01	1,401	Yes
116-C-1_Deep		Total_U_Isotopes	Total_U_Isotopes	μg/kg	34,266	_f	5.75E+01	_f	
116-C-1_Deep	Rad	Americium-241	14596-10-2	pCi/g	25	c	5.75E+01	c	
116-C-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1,484	C	5.75E+01	_c	glorge
116-C-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	62	_c	5.75E+01	_c	
116-C-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	412	c	5.75E+01	_c	
116-C-1_Deep		Europium-154	15585-10-1	pCi/g	28	c	5.75E+01	_ c	-
116-C-1_Deep		Europium-155	14391-16-3	pCi/g	1.6	c	5.75E+01	_c	-
116-C-1_Deep		Nickel-63	13981-37-8	pCi/g	634	c	5.75E+01	_ c	-
116-C-1_Deep		Plutonium-238	13981-16-3	pCi/g	0.94	C	5.75E+01	_c	
116-C-1_Deep		Plutonium-239/240	PU-239/240	pCi/g	46	c	5.75E+01	_c	-
116-C-1_Deep		Total beta radiostrontium	SR-RAD	pCi/g	64	_c	5.75E+01	_c	
116-C-1_Deep		Uranium-233/234	U-233/234	pCi/g	0.55	_c	5.75E+01	_c	-
116-C-1_Deep	-	Uranium-234	13966-29-5	pCi/g	5.1	_c	5.75E+01	_c	
116-C-1_Deep		Uranium-235	15117-96-1	pCi/g	0.063	c	5.75E+01	_c	
116-C-1_Deep		Uranium-238	U-238	pCi/g	6.1	c	5.75E+01	_c	_
116-C-1_Deep_Focused		Aluminum	7429-90-5	μg/kg	9.69E+06	_d	5.75E+01	_d	
116-C-1_Deep_Focused		Antimony	7440-36-0	μg/kg	2,600	_c	5.75E+01	_c	
116-C-1_Deep_Focused	non-Rad		7440-39-3	μg/kg	77,800	_c	5.75E+01	C	
116-C-1_Deep_Focused		Beryllium	7440-41-7	μg/kg	530	c	5.75E+01	c	
116-C-1_Deep_Focused		Cadmium	7440-43-9	μg/kg	2,900	500	5.75E+01	8.7	Yes
116-C-1_Deep_Focused		Chromium	7440-47-3	μg/kg	148,000	_d	5.75E+01	_d	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
116-C-1_Deep_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,000	c	5.75E+01	c	
116-C-1_Deep_Focused		Copper	7440-50-8	μg/kg	30,400	93,717	5.75E+01	1,630	Yes
116-C-1_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	1,800	6,000 ^e	5.75E+01	6,000 ^e	No
116-C-1_Deep_Focused		Iron	7439-89-6	μg/kg	2.31E+07	2.61E+07	5.75E+01	454,084	Yes
116-C-1_Deep_Focused		Lead	7439-92-1	μ g/kg	48,500	d	5.75E+01	_d	
116-C-1_Deep_Focused	non-Rad	Manganese	7439-96-5	μg/kg	296,000	c	5.75E+01	c	
116-C-1_Deep_Focused	_	Mercury	7439-97-6	μg/kg	11,800	80,585	5.75E+01	1,401	Yes
116-C-1_Deep_Focused		Nickel	7440-02-0	μg/kg	18,600	3.89E+08	5.75E+01	6.77E+06	No
116-C-1_Deep_Focused		Silver	7440-22-4	μg/kg	890	826	5.75E+01	14	Yes
116-C-1_Deep_Focused		Total_U_Isotopes	Total_U_lsotopes	μg/kg	2,977	_f	5.75E+01	_f	
116-C-1_Deep_Focused		Vanadium	7440-62-2	μg/kg	38,600	C	5.75E+01	c	
116-C-1_Deep_Focused		Zinc	7440-66-6	μg/kg	464,000	3.89E+08	5.75E+01	6.77E+06	No
116-C-1_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	83	c	5.75E+01	c	
116-C-1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	5,690	_c	5.75E+01	c	
116-C-1_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	115	c	5.75E+01	c	
116-C-1_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	1,120	c	5.75E+01	_c	
116-C-1_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	144	_c	5.75E+01	_c	
116-C-1_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	1,590	, C	5.75E+01	_c	
116-C-1_Deep_Focused	Rad	Plutonium-238	13981-16-3	pCi/g	4.0	c	5.75E+01	_c	
116-C-1_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	136	_c	5.75E+01	_c	
116-C-1_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	88	c	5.75E+01	_c	49.60
116-C-1_Deep_Focused		Uranium-234	13966-29-5	pCi/g	0.19	_c	5.75E+01	_c	
116-C-1 Deep Focused	Rad	Uranium-238	U-238	pCi/g	1.0	_c	5.75E+01	_c	
116-C-1_Shallow		Chromium	7440-47-3	μg/kg	12,664	_d	1.23E+01	d	
116-C-1_Shallow	non-Rad		7439-92-1	μg/kg	4,420	d	1.23E+01	d	
	non-Rad		7439-97-6		30	80,585	1.23E+01	6,552	No
116-C-1_Shallow 116-C-1_Shallow		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,357	80,383 ^f	1.23E+01	6,552 f	
116-C-1_Shallow		Cesium-137	10045-97-3	pCi/g	0.83	_c	1.23E+01		
116-C-1_Shallow		Cobalt-60	10198-40-0	pCi/g	0.074	c	1.23E+01		
116-C-1_Shallow		Europium-152	14683-23-9	pCi/g	1.6	c	1.23E+01	c	
116-C-1_Shallow		Plutonium-239/240	PU-239/240	pCi/g	0.22	c	1.23E+01	c	
116-C-1_Shallow		Total beta radiostrontium	SR-RAD	pCi/g	0.20	c	1.23E+01	c	
116-C-1_Shallow		Uranium-234	13966-29-5	pCi/g	0.82	c	1.23E+01	c	
116-C-1_Shallow		Uranium-235	15117-96-1	pCi/g	0.045	_c	1.23E+01	C	
116-C-1_Shallow		Uranium-238	U-238	pCi/g	0.79	c	1.23E+01	_c	
116-C-2A_Deep		Chromium	7440-47-3	μg/kg	29,500	_d	1.42E+01	_d	
116-C-2A_Deep		Hexavalent Chromium	18540-29-9	μg/kg	848	6,000 ^e	1.42E+01	6,000 ^e	No
116-C-2A_Deep	non-Rad	Lead	7439-92-1	μg/kg	14,000	d	1.42E+01	_d	
116-C-2A_Deep	non-Rad	Mercury	7439-97-6	μg/kg	150	80,585	1.42E+01	5,675	No

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-C-2A_Deep	non-Rad	Total_U_Isotopes	Total_U_lsotopes	μg/kg	1,428	_f	1.42E+01	f	
116-C-2A_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.71	c	1.42E+01	_c	
116-C-2A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	23	c	1.42E+01	_c	-
116-C-2A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	12	c	1.42E+01	_c	
116-C-2A_Deep	Rad	Europium-152	14683-23-9	pCi/g	30	_c	1.42E+01	c	
116-C-2A_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.3	_c	1.42E+01	c	
116-C-2A_Deep	Rad	Nickel-63	13981-37-8	pCi/g	540	_c	1.42E+01	_c	**
116-C-2A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	c	1.42E+01	_ c	
116-C-2A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.5	¢	1.42E+01	_c	
116-C-2A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.2	_c	1.42E+01	_c	**
116-C-2A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	c	1.42E+01	_ c	**
116-C-2A_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.036	_c	1.42E+01	c	
116-C-2A_Deep	Rad	Uranium-238	U-238	pCi/g	0.48	_c	1.42E+01	C	
116-C-2A_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,262	_d	9.80E+00	_d	**
116-C-2A_Shallow		Lead	7439-92-1	μg/kg	7,600	_d	9.80E+00	d	
116-C-2A_Shallow		Mercury	7439-97-6	μg/kg	120	80,585	9.80E+00	8,223	No
116-C-2A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,378	_f	9.80E+00	_f	
116-C-2A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43	_c	9.80E+00	_ c	
116-C-2A_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.23	, c	9.80E+00	C C	
116-C-2A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.26	c	9.80E+00	_ c	
116-C-2A_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.7	_c	9.80E+00	c	
116-C-2A_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	_c	9.80E+00	_c	
116-C-2A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.9	_c	9.80E+00	_c	
116-C-2A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	_c	9.80E+00	_c	
116-C-2A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	c	9.80E+00	c	
116-C-3_Shallow		Aluminum	7429-90-5	µg/kg	9.19E+06	d	5.00E+00	d	
116-C-3_Shallow		Antimony	7440-36-0	μg/kg	1,080	_c	5.00E+00	_c	
116-C-3_Shallow	non-Rad		7440-38-2	μg/kg	5,112	1.05E+07	5.00E+00	2.09E+06	No
116-C-3_Shallow	non-Rad		7440-39-3	μg/kg	106,052	_c	5.00E+00	_c	
116-C-3_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	725	_c	5.00E+00	_c	
116-C-3_Shallow		Boron	7440-42-8	μg/kg	7,239	_c	5.00E+00	_c	
116-C-3_Shallow		Cadmium	7440-43-9	μg/kg	204	500	5.00E+00	100	Yes
116-C-3_Shallow		Chromium	7440-47-3	μg/kg	15,457	_d	5.00E+00	_d	
116-C-3_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	7,387	_c	5.00E+00	C	
116-C-3_Shallow		Copper	7440-50-8	μg/kg	15,592	93,717	5.00E+00	18,743	No
116-C-3_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	1,430	6,000 ^e	5.00E+00	6,000 ^e	No
116-C-3_Shallow	non-Rad	Iron	7439-89-6	μg/kg	1.92E+07	2.61E+07	5.00E+00	5.22E+06	Yes
116-C-3_Shallow	non-Rad	Lead	7439-92-1	μg/kg	7,129	_d	5.00E+00	d	_

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-C-3_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	321,076	c	5.00E+00	_c	
116-C-3_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	15,662	3.89E+08	5.00E+00	7.78E+07	No
116-C-3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	μg/kg	1,430	c	5.00E+00	c	
116-C-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,278	f	5.00E+00	_f	
116-C-3_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	38,808	_c	5.00E+00	_ c	
116-C-3 Shallow	non-Rad	Zinc	7440-66-6	μg/kg	48,655	3.89E+08	5.00E+00	7.78E+07	No
116-C-3_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	42	_c	5.00E+00	c	
116-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.86	_c	5.00E+00	c	
116-C-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.15	_c	5.00E+00	_c	**
116-C-3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.64	_c	5.00E+00	_ c	
116-C-3_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.2	_c	5.00E+00	_c	
116-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.80	_c	5.00E+00	_c	
116-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.77	c	5.00E+00	c	
116-C-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	1.15E+07	d	4.60E+00	d	
116-C-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	6,400	1.05E+07	4.60E+00	2.27E+06	No
116-C-3_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	196,000	1.03E+07	4.60E+00	2.27E+00	
116-C-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	710	_c	4.60E+00	_ c	
116-C-3_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	24,300		4.60E+00	c	
		Cadmium			360	500			
116-C-3_Shallow_Focused	non-Rad	Chromium	7440-43-9 7440-47-3	μg/kg μg/kg	26,400	d	4.60E+00 4.60E+00	109 d	Yes
116-C-3_Shallow_Focused		Cobalt	7440-48-4	$\overline{}$	7,700	_c	4.60E+00		**
116-C-3_Shallow_Focused		The state of the s		μg/kg				c	
116-C-3_Shallow_Focused	non-Rad	Copper Hexavalent Chromium	7440-50-8 18540-29-9	μg/kg	20,400 1,500	93,717	4.60E+00 4.60E+00	20,373	Yes
116-C-3_Shallow_Focused	non-Rad			μg/kg		6,000 ^e		6,000 ^e	No
116-C-3_Shallow_Focused 116-C-3_Shallow_Focused	_	Iron Lead	7439-89-6 7439-92-1	μg/kg μg/kg	1.99E+07 9,100	2.61E+07 d	4.60E+00 4.60E+00	5.68E+06	Yes
		Manganese	7439-96-5	_	346,000				-
116-C-3_Shallow_Focused				μg/kg		_c	4.60E+00	c	
116-C-3_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	1,100	c	4.60E+00		***
116-C-3_Shallow_Focused	_	Nickel	7440-02-0	μg/kg	18,200	3.89E+08	4.60E+00	8.46E+07	No
116-C-3_Shallow_Focused		Nitrate	14797-55-8	μg/kg	12,400	c	4.60E+00	c	***
116-C-3_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	μg/kg	480	c	4.60E+00	c	
116-C-3_Shallow_Focused		Silver .	7440-22-4	μg/kg	270	826	4.60E+00	180	Yes
116-C-3_Shallow_Focused		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,560	f	4.60E+00	f	***
116-C-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	42,400	c	4.60E+00	c	
116-C-3_Shallow_Focused	non-Rad	Zinc Americium-241	7440-66-6	μg/kg	51,400	3.89E+08	4.60E+00	8.46E+07	No
116-C-3_Shallow_Focused	Rad		14596-10-2	pCi/g	0.27	c	4.60E+00	c	***
116-C-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	14	c	4.60E+00	-c	
116-C-3_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.91	-c	4.60E+00	c	
116-C-3_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	18	-c	4.60E+00	c	
116-C-3_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.0	c	4.60E+00	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
116-C-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.90	_c .	4.60E+00	c	en :
116-C-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.042	_с	4.60E+00	_c	
116-C-3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.86	c	4.60E+00	c	
116-C-5_Deep	non-Rad	Chromium	7440-47-3	μg/kg	41,332	_d	9.31E+01	_d	-
116-C-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	1,290	6,000 ^e	9.31E+01	6,000 ^e	No
116-C-5_Deep	non-Rad	Lead	7439-92-1	μg/kg	20,715	_d	9.31E+01	d	
116-C-5_Deep	non-Rad	Mercury	7439-97-6	μg/kg	2,436	80,585	9.31E+01	866	Yes
116-C-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,838	f	9.31E+01		-
116-C-5_Deep	Rad	Americium-241	14596-10-2	pCi/g	2.2	_c	9.31E+01	_c	
116-C-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	52	_c	9.31E+01	-c	
116-C-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	c	9.31E+01	_c	**
116-C-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	73	c	9.31E+01	c	
116-C-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	_c	9.31E+01	_c	**
116-C-5_Deep	Rad	Europium-155	14391-16-3	pCi/g	0.48	c	9.31E+01	C	
116-C-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	644	_c	9.31E+01	_c	**
116-C-5_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.14	c	9.31E+01	_c	
116-C-5_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.6	c	9.31E+01	_c	**
116-C-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.4	c	9.31E+01	_c	
116-C-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.0	_c	9.31E+01	_c	**
116-C-5_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.048	_c	9.31E+01	_c	
116-C-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.95	c	9.31E+01	_c	
116-C-5_Shallow	non-Rad	Chromium	7440-47-3	μ g /kg	12,609	_d	1.04E+01	_d	
116-C-5_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	239	6,000 ^e	1.04E+01	6,000 ^e	No
116-C-5_Shallow		Lead	7439-92-1	μg/kg	7,017	_d	1.04E+01	_d	
116-C-5_Shallow	non-Rad		7439-97-6	μg/kg	32	80,585	1.04E+01	7,749	No
116-C-5_Shallow		Total_U_Isotopes	Total_U_Isotopes		2,773	_f	1.04E+01		
116-C-5_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.39	_c	1.04E+01	_c	
116-C-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	_c	1.04E+01	_c	
116-C-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	_c	1.04E+01	_c	
116-C-5_Shallow		Europium-152	14683-23-9	pCi/g	1.5	_c	1.04E+01	c	
116-C-5_Shallow		Europium-154	15585-10-1	pCi/g	0.32	c	1.04E+01	_c	
116-C-5_Shallow		Nickel-63	13981-37-8	pCi/g	7.8	_c	1.04E+01	-c	**
116-C-5_Shallow		Plutonium-239/240	PU-239/240	pCi/g	0.20	c	1.04E+01	_c	-
116-C-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	_c	1.04E+01	_c	**
116-C-5_Shallow		Uranium-234	13966-29-5	pCi/g	0.84	c	1.04E+01	_c	
116-C-5_Shallow		Uranium-235	15117-96-1	pCi/g	0.039	_c	1.04E+01	_c	**
116-C-5_Shallow		Uranium-238	U-238	pCi/g	0.93	_c	1.04E+01	_c	
116-C-6_Shallow_Focused	non-Rad		7440-38-2	μg/kg	3,400	1.05E+07	2.40E+00	4.36E+06	No

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	0 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ³ $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
116-C-6_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	44,700	c	2.40E+00	c	-
116-C-6_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	6,700	_d	2.40E+00	_d	44
116-C-6_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	4,300	d	2.40E+00	_d	**
116-C-6_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,557	f	2.40E+00	_f	
116-C-6_Shallow_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.64	-c ^c	2.40E+00	_c	**
116-C-6_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.9	c	2.40E+00	C	**
116-C-6_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.25	_c	2.40E+00	_c	
116-C-6_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	5.4	c	2.40E+00	_c	
116-C-6_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.53	c	2.40E+00	_c	
116-C-6_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.46	c	2.40E+00	_c	
116-C-6_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	_c	2.40E+00	_c	
116-C-6_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.041	c	2.40E+00	_c	
116-C-6 Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52	c	2.40E+00	_c	
118-B-1_Shallow_1	non-Rad	4-Methyl-2-pentanone	108-10-1	μg/kg	8.0	_c	3.74E+01	_c	**
118-B-1_Shallow_1		Acetone	67-64-1	μg/kg	23	_c	3.74E+01	_c	
118-B-1_Shallow_1		Aluminum	7429-90-5	μg/kg	6.60E+06	d	3.74E+01	_d	-
118-B-1_Shallow_1	non-Rad	Arsenic	7440-38-2	μg/kg	3,100	1.05E+07	3.74E+01	279,797	No
118-B-1_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	63,100	c	3.74E+01	_c	
118-B-1_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	660	c	3.74E+01	C	
118-B-1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	240	_c	3.74E+01	_c	
118-B-1_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	1,900	_c	3.74E+01	_c	
118-B-1_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	8,200	d	3.74E+01	_d	
118-B-1_Shallow_1	non-Rad	Cobalt	7440-48-4	μg/kg	10,700	_c	3.74E+01	_c	
118-B-1_Shallow_1	non-Rad	Copper	7440-50-8	μg/kg	17,900	93,717	3.74E+01	2,506	Yes
118-B-1_Shallow_1		Di-n-butylphthalate	84-74-2	μg/kg	19	_c	3.74E+01	c	
118-B-1_Shallow_1	non-Rad	Iron	7439-89-6	μg/kg	2.41E+07	2.61E+07	3.74E+01	698,124	Yes
118-B-1_Shallow_1	non-Rad	Lead	7439-92-1	μg/kg	4,900	d	3.74E+01	_d	
118-B-1_Shallow_1	non-Rad	Manganese	7439-96-5	μg/kg	411,000	_c	3.74E+01	_c	-
118-B-1_Shallow_1	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	3.74E+01	2,155	No
118-B-1_Shallow_1	non-Rad	Methylene chloride	75-09-2	μg/kg	15	_c	3.74E+01	C	
118-B-1_Shallow_1		Nickel	7440-02-0	μg/kg	12,900	3.89E+08	3.74E+01	1.04E+07	No
118-B-1_Shallow_1		Total_U_Isotopes	Total_U_Isotopes	-	1,703	f	3.74E+01	f	•-
118-B-1_Shallow_1		Vanadium	7440-62-2	μg/kg	51,900	c	3.74E+01	_c	
118-B-1_Shallow_1		Zinc	7440-66-6	μg/kg	49,100	3.89E+08	3.74E+01	1.04E+07	No
118-B-1_Shallow_1		Carbon-14	14762-75-5	pCi/g	3.4	_c	3.74E+01	c	••
118-B-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.31	c	3.74E+01	c	
118-B-1_Shallow_1		Europium-152	14683-23-9	pCi/g	1.2	_c	3.74E+01	c	**
118-B-1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	c	3.74E+01	c	-

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste : Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	239	_c	3.74E+01	_c	
118-B-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	c	3.74E+01	c	
118-B-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.57	c	3.74E+01	C	-
118-B-1_Shallow_2	non-Rad	Aluminum	7429-90-5	μg/kg	5.17E+06	d	6.10E+00	d	
118-B-1_Shallow_2	non-Rad	Arsenic	7440-38-2	μg/kg	3,200	1.05E+07	6.10E+00	1.72E+06	No
118-B-1_Shallow_2	non-Rad	Barium	7440-39-3	μg/kg	61,000	c	6.10E+00	C -	-
118-B-1_Shallow_2	non-Rad	Beryllium	7440-41-7	μg/kg	650	, C	6.10E+00	_c	-
118-B-1_Shallow_2	non-Rad	Boron	7440-42-8	μg/kg	5,500	c	6.10E+00	_c	
118-B-1_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	6,900	d	6.10E+00	_d	
118-B-1_Shallow_2	non-Rad	Cobalt	7440-48-4	μg/kg	8,400	c	6.10E+00	_c	
118-B-1 Shallow 2	non-Rad	Copper	7440-50-8	μg/kg	16,800	93,717	6.10E+00	15,363	Yes
118-B-1_Shallow_2		Hexavalent Chromium	18540-29-9	μg/kg	330	6,000°	6.10E+00	6,000 ^e	No
118-B-1_Shallow_2	non-Rad	Iron	7439-89-6	μg/kg	2.18E+07	2.61E+07	6.10E+00	4.28E+06	Yes
118-B-1_Shallow_2	non-Rad	Lead	7439-92-1	μg/kg	5,000	d	6.10E+00	d	
118-B-1_Shallow_2	non-Rad	Manganese	7439-96-5	μg/kg	329,000	c	6.10E+00	_c	
118-B-1 Shallow 2	non-Rad	Nickel	7440-02-0	μg/kg	11,000	3.89E+08	6.10E+00	6.38E+07	No
118-B-1_Shallow_2	non-Rad	Vanadium	7440-62-2	μg/kg	54,700	c	6.10E+00	_c	
118-B-1_Shallow_2	non-Rad	Zinc	7440-66-6	μg/kg	43,300	3.89E+08	6.10E+00	6.38E+07	No
118-B-1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.22	C	6.10E+00	c	-
118-B-1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	c	6.10E+00	_c	
118-B-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	60	_c	6.10E+00	_c	
118-B-1_Shallow_3	non-Rad	4-Methyl-2-pentanone	108-10-1	μg/kg	6.0	c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Acetone	67-64-1	μg/kg	16	_c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Aluminum	7429-90-5	μg/kg	6.12E+06	d	9.80E+00	_d	
118-B-1_Shallow 3	non-Rad	Arsenic	7440-38-2	μg/kg	4,500	1.05E+07	9.80E+00	1.07E+06	No
118-B-1_Shallow_3	non-Rad		7440-39-3	μg/kg	65,900	_c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Beryllium	7440-41-7	μg/kg	650	C	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	39	c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Boron	7440-42-8	μg/kg	8,900	c	9.80E+00	_c	
118-B-1_Shallow_3		Carbon tetrachloride	56-23-5	μg/kg	11	_c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	9,200	d	9.80E+00	_d	
118-B-1_Shallow_3		Cobalt	7440-48-4	µg/kg	9,100	C C	9.80E+00	_c	
118-B-1_Shallow_3		Copper	7440-50-8	μg/kg	18,000	93,717	9.80E+00	9,563	Yes
118-B-1_Shallow_3		Di-n-butylphthalate	84-74-2	μg/kg	54	C	9.80E+00	_c	
118-B-1_Shallow_3		Hexavalent Chromium	18540-29-9	μg/kg	210	6,000 ^e	9.80E+00	6,000 ^e	No
118-B-1 Shallow 3		Iron	7439-89-6	μg/kg	2.21E+07	2.61E+07	9.80E+00	2.66E+06	Yes
118-B-1_Shallow_3		Lead	7439-92-1	μg/kg	6,600	_d	9.80E+00	_d	
118-B-1_Shallow_3		Manganese	7439-96-5	μg/kg	390,000	_c	9.80E+00	_c	
118-B-1_Shallow_3		Mercury	7439-97-6	μg/kg	300	80,585	9.80E+00	8,223	No

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	Decision Units to STOMP 1 CAS No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	Surface Water STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_3	non-Rad	Methylene chloride	75-09-2	μg/kg	26	c	9.80E+00	_c	-
118-B-1_Shallow_3	non-Rad	Nickel	7440-02-0	μg/kg	19,000	3.89E+08	9.80E+00	3.97E+07	No
118-B-1_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg	49,200	c	9.80E+00	_c	
118-B-1_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	44,300	3.89E+08	9.80E+00	3.97E+07	No
118-B-1_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	1.5	c	9.80E+00	c	-
118-B-1_Shallow_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.4	c	9.80E+00	c	Mark .
118-B-1_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	19	_c	9.80E+00	c	-
118-B-1_Shallow_4	non-Rad	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	μg/kg	13	c	1.72E+01	_c	-
118-B-1_Shallow_4	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	μg/kg	19	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	16	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Acetone	67-64-1	μg/kg	19	-c	1.72E+01	c	
118-B-1_Shallow_4	non-Rad	Aluminum	7429-90-5	μg/kg	5.27E+06	d	1.72E+01	_d .	
118-B-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	μg/kg	80	d	1.72E+01	d	
118-B-1 Shallow 4	non-Rad	Arsenic	7440-38-2	μg/kg	3,900	1.05E+07	1.72E+01	608,395	No
118-B-1_Shallow_4	non-Rad	Barium	7440-39-3	μg/kg	51,400	_c	1.72E+01	c	
118-B-1_Shallow_4	non-Rad	Beryllium	7440-41-7	μg/kg	420	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	μg/kg	7.8	_c	1.72E+01	_c	-
118-B-1_Shallow_4	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	600	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Boron	7440-42-8	μg/kg	3,900	c	1.72E+01	c	
118-B-1_Shallow_4	non-Rad	Carbon tetrachloride	56-23-5	μg/kg	17	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Chlordane	57-74-9	μg/kg	2.5	24,442	1.72E+01	1,421	No
118-B-1_Shallow_4	non-Rad	Chromium	7440-47-3	μg/kg	6,700	_d	1.72E+01	_d	**
118-B-1_Shallow_4	non-Rad	Cobalt	7440-48-4	μg/kg	8,600	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Copper	7440-50-8	μg/kg	16,500	93,717	1.72E+01	5,449	Yes
118-B-1_Shallow_4		Dalapon	75-99-0	μg/kg	48	c	1.72E+01	_c	
118-B-1 Shallow 4	non-Rad	Dieldrin	60-57-1	μg/kg	3.8	58	1.72E+01	3.4	Yes
118-B-1_Shallow_4	non-Rad	Diethylphthalate	84-66-2	μg/kg	17	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	63	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Endrin	72-20-8	μg/kg	1.5	3.0	1.72E+01	0.17	Yes
118-B-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	300	6,000 ^e	1.72E+01	6,000 ^e	No
118-B-1_Shallow_4	non-Rad	Iron	7439-89-6	μg/kg	2.23E+07	2.61E+07	1.72E+01	1.52E+06	Yes
118-B-1_Shallow_4	non-Rad	Lead	7439-92-1	μg/kg	5,500	d	1.72E+01	d	-
118-B-1_Shallow_4	non-Rad	Manganese	7439-96-5	μg/kg	336,000	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Methylene chloride	75-09-2	μg/kg	12	_c	1.72E+01	c	
118-B-1_Shallow_4	non-Rad	Nickel	7440-02-0	μg/kg	11,300	3.89E+08	1.72E+01	2.26E+07	No
118-B-1_Shallow_4	non-Rad	Phenol	108-95-2	μg/kg	26	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Vanadium	7440-62-2	μg/kg	53,400	c	1.72E+01	_c	
118-B-1_Shallow_4	non-Rad	Zinc	7440-66-6	μg/kg	42,400	3.89E+08	1.72E+01	2.26E+07	No
118-B-1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	0.74	c	1.72E+01	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site De	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_5	non-Rad	Acetone	67-64-1	μg/kg	19	c	3.31E+01	_c	
118-B-1_Shallow_5	non-Rad	Aluminum	7429-90-5	μg/kg	3.99E+06	_d	3.31E+01	_d	**
118-B-1_Shallow_5	non-Rad	Arsenic	7440-38-2	μg/kg	2,900	1.05E+07	3.31E+01	316,145	No
118-B-1_Shallow_5	non-Rad	Barium	7440-39-3	μg/kg	44,400	c	3.31E+01	_ c	-
118-B-1_Shallow_5	non-Rad	Beryllium	7440-41-7	μg/kg	140	_c	3.31E+01	c	
118-B-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	58	c	3.31E+01	_ c	-
118-B-1_Shallow_5	non-Rad	Boron	7440-42-8	μg/kg	1,200	_c	3.31E+01	e	
118-B-1_Shallow_5	non-Rad	Cadmium	7440-43-9	μg/kg	230	500	3.31E+01	15	Yes
118-B-1_Shallow_5	non-Rad	Chromium	7440-47-3	μg/kg	5,000	d	3.31E+01	_d	
118-B-1_Shallow_5	non-Rad	Cobalt	7440-48-4	μg/kg	6,900	c	3.31E+01	c	er sh
118-B-1 Shallow 5	non-Rad	Copper	7440-50-8	μg/kg	14,300	93,717	3.31E+01	2,831	Yes
118-B-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	260	6,000 ^e	3.31E+01	6,000 ^e	No
118-B-1_Shallow_5	non-Rad	Iron	7439-89-6	μg/kg	1.67E+07	2.61E+07	3.31E+01	788,817	Yes
118-B-1_Shallow_5	non-Rad	Lead	7439-92-1	μg/kg	4,200	_d	3.31E+01	d	
118-B-1_Shallow_5	non-Rad	Manganese	7439-96-5	μg/kg	302,000	c	3.31E+01	_c	**
118-B-1_Shallow_5	non-Rad	Mercury	7439-97-6	μg/kg	40	80,585	3.31E+01	2,435	No
118-B-1_Shallow_5	non-Rad	Methylene chloride	75-09-2	µg/kg	13	c	3.31E+01	C	
118-B-1 Shallow 5	non-Rad	Nickel	7440-02-0	μg/kg	7,400	3.89E+08	3.31E+01	1.18E+07	No
118-B-1_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg	34,700	3.03£.00	3.31E+01	c	
118-B-1_Shallow_5		Zinc	7440-66-6	μg/kg	38,600	3.89E+08	3.31E+01	1.18E+07	No
118-B-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	3.6	c	3.31E+01		
118-B-1_Shallow_5	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	_c	3.31E+01	_c	
118-B-1 Shallow 6		2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	93-72-1	µg/kg	12	c	8.60E+00	c	
118-B-1_Shallow_6		2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	µg/kg	62	c	8.60E+00	C	
				_					
118-B-1_Shallow_6		2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	μg/kg	43	c	8.60E+00	c	
118-B-1_Shallow_6		Acetone	67-64-1	μg/kg	8.0		8.60E+00	_c	
118-B-1_Shallow_6	non-Rad		309-00-2	μg/kg	0.50	7,293 d	8.60E+00	848 d	No
118-B-1_Shallow_6		Aluminum	7429-90-5	μg/kg	5.27E+06		8.60E+00		-
118-B-1_Shallow_6	_	Arsenic	7440-38-2	μg/kg	4,500	1.05E+07	8.60E+00	1.22E+06	No
118-B-1_Shallow_6		Barium	7440-39-3	μg/kg	96,400	c	8.60E+00	_c	
118-B-1_Shallow_6		Beryllium	7440-41-7	μg/kg	360	c	8.60E+00	_c	**
118-B-1_Shallow_6		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	430	c	8.60E+00	_c	their
118-B-1_Shallow_6		Boron	7440-42-8	μg/kg	8,800	c	8.60E+00	_c	-
118-B-1_Shallow_6		Butylbenzylphthalate	85-68-7	μg/kg	24	c	8.60E+00	C	80
118-B-1_Shallow_6	non-Rad	Carbon tetrachloride	56-23-5	μg/kg	7.0	c	8.60E+00	C C	••
118-B-1_Shallow_6	non-Rad	Chromium	7440-47-3	μ g/ kg	7,400	_d	8.60E+00	_d	-
118-B-1_Shallow_6	non-Rad	Cobalt	7440-48-4	μg/kg	8,500	c	8.60E+00	_c	
118-B-1_Shallow_6	non-Rad	Copper	7440-50-8	μg/kg	16,900	93,717	8.60E+00	10,897	Yes
118-B-1_Shallow_6		Dalapon	75-99-0	μg/kg	38	c	8.60E+00	_с	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decisor Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_6	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	84	c	8.60E+00	_c	
118-B-1_Shallow_6	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	280	6,000 ^e	8.60E+00	6,000 ^e	No
118-B-1_Shallow_6	non-Rad	Iron	7439-89-6	μg/kg	2.21E+07	2.61E+07	8.60E+00	3.04E+06	Yes
118-B-1_Shallow_6	non-Rad	Lead	7439-92-1	μg/kg	5,100	^d	8.60E+00	_d	**
118-B-1_Shallow_6	non-Rad	Manganese	7439-96-5	μg/kg	322,000	c	8.60E+00	c	dista
118-B-1_Shallow_6	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	8.60E+00	9,370	No
118-B-1_Shallow_6	non-Rad	Methylene chloride	75-09-2	μg/kg	10	c	8.60E+00	C	
118-B-1_Shallow_6	non-Rad	Nickel	7440-02-0	μg/kg	11,500	3.89E+08	8.60E+00	4.52E+07	No
118-B-1_Shallow_6	non-Rad	Phenol	108-95-2	μg/kg	23	c	8.60E+00	_c	
118-B-1_Shallow_6	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,250	f	8.60E+00	_f	
118-B-1_Shallow_6	non-Rad	Vanadium	7440-62-2	μg/kg	49,100	c	8.60E+00	_c	
118-B-1_Shallow_6	non-Rad	Zinc	7440-66-6	μg/kg	41,200	3.89E+08	8.60E+00	4.52E+07	No
118-B-1_Shallow_6	Rad	Cesium-137	10045-97-3	pCi/g	0.16	c	8.60E+00	C	-
118-B-1_Shallow_6	Rad	Tritium	10028-17-8	pCi/g	5.0	c	8.60E+00	_c	
118-B-1_Shallow_6	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	c c	8.60E+00	C	
118-B-1_Shallow_6	Rad	Uranium-238	U-238	pCi/g	0.76	c	8.60E+00	_c	-
118-B-1_Shallow_7	non-Rad	2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	μg/kg	26	_c	5.50E+01	c	
118-B-1_Shallow_7		2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	μg/kg	27		5.50E+01	, C	••
118-B-1_Shallow_7		2-Methylnaphthalene	91-57-6	μg/kg	26	_c	5.50E+01	_c	6064
118-B-1_Shallow_7		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	15	c	5.50E+01	_c	
118-B-1_Shallow_7		4-Amino-3,5,6-trichloropicolinic acid	1918-02-1	μg/kg	14	c	5.50E+01	c	••
118-B-1_Shallow_7		Acetone	67-64-1		10	_c	5.50E+01	c	
118-B-1_Shallow_7		Alpha-Chlordane	5103-71-9	μg/kg			5.50E+01		Al a
118-B-1_Shallow_7	_	Aluminum	7429-90-5	μg/kg μg/kg	12 6.09E+06	24,442 d	5.50E+01	444 d	No
118-B-1 Shallow 7		Arsenic	7440-38-2	μg/kg	3,800	1.05E+07	5.50E+01	190,262	No
118-B-1_Shallow_7	non-Rad		7440-39-3	μg/kg μg/kg	145,000	1.05E+07	5.50E+01	190,262	
118-B-1_Shallow_7		Beryllium	7440-41-7	μg/kg	310	c	5.50E+01	C	===
118-B-1_Shallow_7		Boron	7440-42-8		18,100	c	5.50E+01	c	
118-B-1_Shallow_7		Carbon tetrachloride	56-23-5	μg/kg	10				
118-B-1 Shallow 7		Chromium		μg/kg		c	5.50E+01	c	
			7440-47-3	μg/kg	9,500	_d	5.50E+01	d	
118-B-1_Shallow_7		Cobalt	7440-48-4	μg/kg	7,600	c	5.50E+01	c	8-9
118-B-1_Shallow_7		Copper	7440-50-8	μg/kg	25,700	93,717	5.50E+01	1,704	Yes
118-B-1_Shallow_7		Dalapon	75-99-0	μg/kg	32	_c	5.50E+01	_c	
118-B-1_Shallow_7		Dicamba	1918-00-9	μg/kg	13	c	5.50E+01	_c	
118-B-1_Shallow_7		Dieldrin Diethylahthelete	60-57-1	μg/kg	1.7	58	5.50E+01	1.0	Yes
118-B-1_Shallow_7		Diethylphthalate	84-66-2	μg/kg	25	c	5.50E+01	_c	
118-B-1_Shallow_7		Hexavalent Chromium	18540-29-9	μg/kg	300	6,000 ^e	5.50E+01	6,000 ^e	No
118-B-1_Shallow_7	non-Rad non-Rad		7439-89-6 7439-92-1	μg/kg	1.87E+07 12,900	2.61E+07	5.50E+01	474,724	Yes

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_7	non-Rad	Manganese	7439-96-5	μg/kg	340,000	c	5.50E+01	C C	-
118-B-1_Shallow_7	non-Rad	Mercury	7439-97-6	μg/kg	20	80,585	5.50E+01	1,465	No
118-B-1_Shallow_7	non-Rad	Methoxychlor	72-43-5	μg/kg	9.1	d	5.50E+01	_d	
118-B-1_Shallow_7	non-Rad	Methylene chloride	75-09-2	μg/kg	10	c	5.50E+01	_c	-
118-B-1_Shallow_7	non-Rad	Molybdenum -	7439-98-7	μg/kg	2,100	с	5.50E+01	_c	
118-B-1_Shallow_7	non-Rad	Naphthalene	91-20-3	μg/kg	19	c	5.50E+01	_c	
118-B-1_Shallow_7		Nickel	7440-02-0	μg/kg	10,700	3.89E+08	5.50E+01	7.07E+06	No
118-B-1_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,170	_f	5.50E+01	_f	
118-B-1_Shallow_7	non-Rad	Vanadium	7440-62-2	μg/kg	40,900	c	5.50E+01	_c	
118-B-1_Shallow_7		Zinc	7440-66-6	μg/kg	48,700	3.89E+08	5.50E+01	7.07E+06	No
118-B-1_Shallow_7	Rad	Cesium-137	10045-97-3	pCi/g	0.58	c	5.50E+01	_ c	
118-B-1_Shallow_7	Rad	Europium-152	14683-23-9	pCi/g	0.10	_c	5.50E+01	_c	
118-B-1_Shallow_7	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	_c	5.50E+01	_c	
118-B-1_Shallow_7	Rad	Uranium-238	U-238	pCi/g	0.73	_c	5.50E+01	c	
	non-Rad	Acetone	67-64-1	μg/kg	99	c	2.51E+02	C C	
118-B-1_Shallow_Focused		Aluminum	7429-90-5	μg/kg	1.01E+07	d	2.51E+02	d	
118-B-1_Shallow_Focused			7440-38-2	_	7,000	1.05E+07	2.51E+02	41,707	No
118-B-1_Shallow_Focused		Arsenic Barium	7440-39-3	μg/kg μg/kg	261,000	1.05E+07	2.51E+02	41,707	
118-B-1_Shallow_Focused				-	580	c	2.51E+02	c	
118-B-1_Shallow_Focused		Beryllium	7440-41-7	μg/kg			2.51E+02		
118-B-1_Shallow_Focused		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	38	_c		c	
118-B-1_Shallow_Focused		Boron	7440-42-8	μg/kg	24,500	c	2.51E+02	c	
118-B-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	280	500	2.51E+02	2.0	Yes
118-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	16,400	d	2.51E+02	d	
118-B-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	11,300	c	2.51E+02	_c	
118-B-1_Shallow_Focused		Copper	7440-50-8	μg/kg	28,000	93,717	2.51E+02	374	Yes
118-B-1_Shallow_Focused		Dicamba	1918-00-9	μg/kg	9.1	c	2.51E+02	c	
118-B-1_Shallow_Focused	non-Rad		7439-89-6	μg/kg	2.43E+07	2.61E+07	2.51E+02	104,065	Yes
118-B-1_Shallow_Focused	non-Rad		7439-92-1	μg/kg	34,300	d	2.51E+02	_d	
118-B-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	421,000	c	2.51E+02	C	
118-B-1_Shallow_Focused		Mercury	7439-97-6	μg/kg	14,500	80,585	2.51E+02	321	Yes
118-B-1_Shallow_Focused	non-Rad		72-43-5	μg/kg	4.7	d .	2.51E+02	_d	
118-B-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	μg/kg	16	c	2.51E+02	-c	
118-B-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	810	_c	2.51E+02	c	-
118-B-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	15,200	3.89E+08	2.51E+02	1.55E+06	No
118-B-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	_		_f	2.51E+02		wa
118-B-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	59,900	_c	2.51E+02	c	**
118-B-1_Shallow_Focused	non-Rad		7440-66-6	μg/kg	65,100	3.89E+08	2.51E+02	1.55E+06	No
118-B-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.35	_c	2.51E+02	_c	-
118-B-1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.16	_c	2.51E+02	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Deci	cas No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCt}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	137	c	2.51E+02	_c	-
118-B-1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	_ c	2.51E+02	_c	***
118-B-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.56	c	2.51E+02	-c	
118-B-10_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.46	c	8.60E+00	c	
118-B-10_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	157	_c	8.60E+00	_c	
118-B-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,500	1.05E+07	2.10E+00	4.98E+06	No
118-B-10_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	127,000	c	2.10E+00	_c	
118-B-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	50	500	2.10E+00	238	No
118-B-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	11,400	d	2.10E+00	_d	
118-B-10_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	16,200	_d	2.10E+00	_d	-
118-B-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	230	80,585	2.10E+00	38,374	No
118-B-3_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	11,500	_d	2.78E+01	d	
118-B-3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	. 298	6,000 ^e	2.78E+01	6,000 ^e	No
118-B-3_Shallow	non-Rad	Lead	7439-92-1	μg/kg	5,200	d	2.78E+01	_d	***
118-B-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	c	2.78E+01	_c	
118-B-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.086	c	2.78E+01	_c	
118-B-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.21	c	2.78E+01	_c	45-10
118-B-3_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.18	_c	2.78E+01	_c	
118-B-3_Shallow_Focused		Arsenic	7440-38-2	μg/kg	4,200	1.05E+07	6.32E+01	165,576	No
118-B-3_Shallow_Focused		Barium	7440-39-3	μg/kg	120,000	c	6.32E+01	_c	
118-B-3 Shallow Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	57	c	6.32E+01	_c	
118-B-3 Shallow Focused	non-Rad	Cadmium	7440-43-9	μg/kg	435	500	6.32E+01	7.9	Yes
118-B-3_Shallow_Focused		Chromium	7440-47-3	μg/kg	17,300	d	6.32E+01	_d	
118-B-3_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	43,900	d	6.32E+01	d	
118-B-3 Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	34	80,585	6.32E+01	1,275	No
118-B-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.83	C	6.32E+01	c	
118-B-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	c	6.32E+01	_c	ng Mp.
118-B-3_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.1	c	6.32E+01	_c	
118-B-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	250	6,000 ^e	2.42E+01	6,000 ^e	No
118-B-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.32	c	2.42E+01	c	NA.
118-B-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.35	_c	2.42E+01	_c	***
118-B-5 Shallow		Cesium-137	10045-97-3	pCi/g	0.052	c	2.25E+01	_c	
118-B-5_Shallow_Focused		Arsenic	7440-38-2	μg/kg	2,300	1.05E+07	2.30E+00	4.55E+06	No
118-B-5_Shallow_Focused		Barium	7440-39-3	μg/kg	47,400	c	2.30E+00	_c	wa
118-B-5_Shallow_Focused		Chromium	7440-47-3	μg/kg	8,600	_d	2.30E+00	_d	
118-B-5_Shallow_Focused		Lead	7439-92-1	μg/kg		_d	2.30E+00	_d	ends
118-B-6_Deep		Lead	7439-92-1	μg/kg	5,100	_d	6.20E+00	_d	
118-B-6_Deep		Tritium	10028-17-8	pCi/g		_c	6.20E+00	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
118-B-6_Shallow	non-Rad	Lead	7439-92-1	μg/kg	7,700	d	1.70E+01	_d	-
118-B-6_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	80	80,585	1.70E+01	4,740	No
118-B-6_Shallow	Rad	Tritium	10028-17-8	pCi/g	241	c	1.70E+01	c	-
118-B-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,000	1.05E+07	2.00E-01	5.23E+07	No
118-B-7_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	55,100	c	2.00E-01	_c	
118-B-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	280	500	2.00E-01	2,500	No
118-B-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	10,300	_d	2.00E-01	_d	lenter .
118-B-7_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	22,900	_d	2.00E-01	_d	ti-ti-
118-B-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	110	80,585	2.00E-01	402,926	No
118-B-7_Shallow_Focused		Selenium	7782-49-2	μg/kg	580	1,000	2.00E-01	5,000	No
118-B-7_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	720	826	2.00E-01	4,130	No
118-B-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.59E+06	d	4.20E+00	d	pho .
118-B-9_Shallow_Focused	non-Rad	Antimony	7440-36-0	μg/kg	695	c	4.20E+00	_c	
118-B-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,900	1.05E+07	4.20E+00	2.49E+06	No
118-B-9_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	141,000	_c	4.20E+00	c	
118-B-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	177	c	4.20E+00	_ c	
118-B-9_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	9,700	c	4.20E+00	_c	
118-B-9 Shallow Focused	non-Rad	Cadmium	7440-43-9	μg/kg	435	500	4.20E+00	119	Yes
118-B-9_Shallow_Focused		Chromium	7440-47-3	μg/kg	15,700	d	4.20E+00	_d	
118-B-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	9,500	_c	4.20E+00	c	
118-B-9 Shallow Focused		Copper	7440-50-8	μg/kg	20,500	93,717	4.20E+00	22,314	No
118-B-9 Shallow Focused		Iron .	7439-89-6	μg/kg	2.42E+07	2.61E+07	4.20E+00	6.22E+06	Yes
118-B-9_Shallow_Focused		Lead	7439-92-1	μg/kg	26,900	d	4.20E+00	_d	-
118-B-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	354,000	c	4.20E+00	_c	-+
118-B-9 Shallow Focused		Mercury	7439-97-6	μg/kg	225	80,585	4.20E+00	19,187	No
118-B-9_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	400	c	4.20E+00	_c	
118-B-9 Shallow Focused	non-Rad		7440-02-0	ug/kg	14,800	3.89E+08	4.20E+00	9.26E+07	No
118-B-9 Shallow Focused		Vanadium	7440-62-2	μg/kg	71,600	c	4.20E+00	_c	
118-B-9_Shallow_Focused	non-Rad		7440-66-6	μg/kg	250,000	3.89E+08	4.20E+00	9.26E+07	No
118-C-1_Shallow_1		Aluminum	7429-90-5	μg/kg	4.57E+06	d	2.96E+01	_d	**
118-C-1 Shallow 1	non-Rad	Arsenic	7440-38-2	μg/kg	3,300	1.05E+07	2.96E+01	353,527	No
118-C-1_Shallow_1	non-Rad		7440-39-3	μg/kg	56,000	_c	2.96E+01	_c	
118-C-1_Shallow_1		Beryllium	7440-41-7	µg/kg	880	_ c	2.96E+01	_ c	-
118-C-1_Shallow_1		Boron	7440-42-8	µg/kg	2,100	_c	2.96E+01	c c	
118-C-1_Shallow_1		Chromium	7440-47-3	µg/kg	8,600	_d	2.96E+01	_d	
118-C-1 Shallow 1	non-Rad		7440-48-4	μg/kg	8,400	_c	2.96E+01		
118-C-1_Shallow 1		Copper	7440-50-8	_	14,700	93,717	2.96E+01	3,166	
118-C-1_Shallow_1	non-Rad		7439-89-6	μg/kg μg/kg	1.91E+07	2.61E+07	2.96E+01	882,089	Yes Yes
118-C-1_Shallow_1	non-Rad		7439-92-1	μg/kg	4,900	2.01E+07	2.96E+01	dd	res
118-C-1_Shallow_1		Manganese	7439-96-5	µg/kg	362,000	c	2.96E+01	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	Site Decision Units to STOMP 1	70:30/1	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{p\mathcal{C}i}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-1_Shallow_1	non-Rad		7440-02-0	μg/kg	10,200	3.89E+08	2.96E+01	1.31E+07	No
118-C-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,191	f	2.96E+01	f	
118-C-1_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	41,600	c	2.96E+01	_c	
118-C-1_Shallow_1	non-Rad	Zinc	7440-66-6	μg/kg	39,100	3.89E+08	2.96E+01	1.31E+07	No
118-C-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.30	c	2.96E+01	_ c	
118-C-1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.16	_c	2.96E+01	_c	***
118-C-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	c	2.96E+01	_c	
118-C-1_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.027	c	2.96E+01	_c	
118-C-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.74	_c	2.96E+01	c	_
118-C-1 Shallow 2	non-Rad	Aluminum	7429-90-5	μg/kg	4.69E+06	_d	1.71E+01	d	
118-C-1_Shallow_2	non-Rad		7440-38-2	μg/kg	2,800	1.05E+07	1.71E+01	611,953	No
118-C-1_Shallow_2		Barium	7440-39-3	μg/kg	54,500	_c	1.71E+01	c	
118-C-1_Shallow_2		Beryllium	7440-41-7	μg/kg	930	_c	1.71E+01	_c	
118-C-1_Shallow_2		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	400	c	1.71E+01	_c	
118-C-1_Shallow_2		Boron	7440-42-8	μg/kg	2,200	_c	1.71E+01	_c	
118-C-1_Shallow_2		Chromium	7440-47-3	μg/kg	6,200	_d	1.71E+01	d	
118-C-1_Shallow_2		Cobalt	7440-48-4	μg/kg	7,700		1.71E+01		
118-C-1_Shallow_2		Copper	7440-50-8		13,400	93,717	1.71E+01		Yes
118-C-1_Shallow_2		Di-n-butylphthalate	84-74-2	μg/kg μg/kg	35	95,/1/ C	1.71E+01	5,481 °	
118-C-1_Shallow_2		Hexavalent Chromium	18540-29-9	μg/kg	240		1.71E+01		No
118-C-1_Shallow_2	non-Rad		7439-89-6		1.90E+07	6,000 ^e 2.61E+07	1.71E+01	6,000 ^e 1.53E+06	Yes
118-C-1_Shallow_2		Lead	7439-92-1	μg/kg μg/kg	4,300	2.01E+07	1.71E+01	1.53E+00	
118-C-1_Shallow_2		Manganese	7439-96-5	μg/kg	359,000	c	1.71E+01	C	
118-C-1_Shallow_2		Methylene chloride	75-09-2		14		1.71E+01		
	non-Rad			μg/kg				2.275.07	Al-
118-C-1_Shallow_2 118-C-1_Shallow_2		Vanadium	7440-02-0 7440-62-2	μg/kg μg/kg	10,400 46,300	3.89E+08	1.71E+01 1.71E+01	2.27E+07	No
118-C-1_Shallow_2	non-Rad		7440-66-6		40,200	3.89E+08	1.71E+01		
118-C-1_Shallow_2	Rad	Carbon-14	14762-75-5	μg/kg pCi/g	12	3.69E+08	1.71E+01	2.27E+07	No
118-C-1 Shallow 2	Rad	Cesium-137	10045-97-3	pCi/g	0.15	c	1.71E+01	c	
118-C-1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	1.5	c	1.71E+01	c	
118-C-1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.28	c	1.71E+01		
	Rad	Nickel-63	13981-37-8		36			c	
118-C-1_Shallow_2				pCi/g		c	1.71E+01	c	
118-C-1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	7.7	c	1.71E+01	c	
118-C-1_Shallow_3		Acetone	67-64-1	μg/kg	11	c	4.16E+01	c	
118-C-1_Shallow_3	_	Aluminum	7429-90-5	μg/kg	5.54E+06	_d	4.16E+01	d	
118-C-1_Shallow_3		Aroclor-1254	11097-69-1	μg/kg	62	d	4.16E+01	d 	
118-C-1_Shallow_3	_	Arsenic	7440-38-2	μg/kg	5,800	1.05E+07	4.16E+01	251,548	No
118-C-1_Shallow_3		Barium	7440-39-3	μg/kg	78,400	c	4.16E+01	c	
118-C-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	180	c	4.16E+01	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	120	_c	4.16E+01	c	-
118-C-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	140	_c	4.16E+01	_c	
118-C-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	140	c	4.16E+01	_c	-
118-C-1_Shallow_3	non-Rad	Beryllium	7440-41-7	μg/kg	700	c	4.16E+01	_c	
118-C-1_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	240	c	4.16E+01	_e	
118-C-1_Shallow_3	non-Rad	Boron	7440-42-8	μg/kg	3,200	_c	4.16E+01	_c	-
118-C-1_Shallow_3	non-Rad	Butylbenzylphthalate	85-68-7	μg/kg	38	_c	4.16E+01	_c	-
118-C-1 Shallow 3	non-Rad	Cadmium	7440-43-9	μg/kg	120	500	4.16E+01	12	Yes
118-C-1_Shallow_3	non-Rad	Chromium	7440-47-3	μg/kg	9,200	d	4.16E+01	d	-
118-C-1_Shallow_3	non-Rad	Chrysene	218-01-9	µg/kg	210	c	4.16E+01	_c	-
118-C-1_Shallow_3	non-Rad	Cobalt	7440-48-4	μg/kg	8,900	_c	4.16E+01	_c	form.
118-C-1_Shallow_3	non-Rad	Copper	7440-50-8	μg/kg	45,200	93,717	4.16E+01	2,253	Yes
118-C-1_Shallow_3		Di-n-butylphthalate	84-74-2	μg/kg	63	c	4.16E+01	_c	***
118-C-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	μg/kg	320	c	4.16E+01	_ c	64
118-C-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	46	_с	4.16E+01	_c	
118-C-1_Shallow_3	non-Rad	Iron	7439-89-6	μg/kg	2.23E+07	2.61E+07	4.16E+01	627,640	Yes
118-C-1_Shallow_3	non-Rad	Lead	7439-92-1	μg/kg	23,100	d	4.16E+01	_d	
118-C-1_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	357,000	c	4.16E+01	_c	
118-C-1_Shallow_3	non-Rad	Mercury	7439-97-6	μg/kg	50	80,585	4.16E+01	1,937	No
118-C-1_Shallow_3	non-Rad	Methylene chloride	75-09-2	µg/kg	12	_c	4.16E+01	_c	
118-C-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	μg/kg	4,500	c	4.16E+01	_c	***
118-C-1_Shallow_3	non-Rad	Nickel	7440-02-0	μg/kg	12,700	3.89E+08	4.16E+01	9.35E+06	No
118-C-1_Shallow_3	non-Rad	Pyrene	129-00-0	μg/kg	320	_c	4.16E+01	_c	••
118-C-1_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,456	_f	4.16E+01	_1	
118-C-1_Shallow_3	non-Rad	Vanadium	7440-62-2	μg/kg	53,200	_c	4.16E+01	_c	-
118-C-1_Shallow_3	non-Rad	Zinc	7440-66-6	μg/kg	77,100	3.89E+08	4.16E+01	9.35E+06	No
118-C-1_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.96	c	4.16E+01	c	
118-C-1_Shallow_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.042	_c	4.16E+01	_c	
118-C-1_Shallow_3	Rad	Europium-152	14683-23-9	pCi/g	0.14	_с	4.16E+01	_c	-
118-C-1_Shallow_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	-c	4.16E+01	_c	-
118-C-1_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	-c	4.16E+01	_c	-
118-C-1_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.83	c	4.16E+01	-c	-
118-C-1_Shallow_4		Acetone	67-64-1	μg/kg	13	_ c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Aluminum	7429-90-5	μg/kg	5.10E+06	_d	3.24E+01	_d	
118-C-1_Shallow_4		Aroclor-1254	11097-69-1	μg/kg	16	_d	3.24E+01	_d	
118-C-1_Shallow_4	non-Rad		7440-38-2	μg/kg	2,400	1.05E+07	3.24E+01	322,975	No
118-C-1_Shallow_4		Barium	7440-39-3	μg/kg	286,000	_ c	3.24E+01	_c	-
118-C-1_Shallow_4	non-Rad	Benzene	71-43-2	μg/kg	1.0	_c	3.24E+01	_c	-

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	130	c	3.24E+01	c	
118-C-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	83	c	3.24E+01	C	-
118-C-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	110	c	3.24E+01	_c	**
118-C-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	92	c	3.24E+01	c	**
118-C-1_Shallow_4	non-Rad	Beryllium	7440-41-7	μg/kg	580	c	3.24E+01	c	
118-C-1_Shallow_4	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	17	_c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Boron	7440-42-8	μg/kg	4,900	_c	3.24E+01	_c	-
118-C-1_Shallow_4	non-Rad	Chromium	7440-47-3	μg/kg	6,600	_d	3.24E+01	d d	-
118-C-1_Shallow_4	non-Rad	Chrysene	218-01-9	μg/kg	170	c	3.24E+01	c	-
118-C-1_Shallow_4	non-Rad	Cobalt	7440-48-4	μg/kg	8,800	_c	3.24E+01	C	
118-C-1_Shallow_4	non-Rad	Copper	7440-50-8	μg/kg	15,100	93,717	3.24E+01	2,893	Yes
118-C-1_Shallow_4		Di-n-butylphthalate	84-74-2	μg/kg	26	c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	μg/kg	330	_c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	35	c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Iron	7439-89-6	μg/kg	2.32E+07	2.61E+07	3.24E+01	805,859	Yes
118-C-1_Shallow_4	non-Rad	Lead	7439-92-1	μg/kg	5,000	d	3.24E+01	d	
118-C-1_Shallow_4	non-Rad	Manganese	7439-96-5	μg/kg	350,000	c	3.24E+01	c	**
118-C-1_Shallow_4	non-Rad	Methylene chloride	75-09-2	μg/kg	13	c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Nickel	7440-02-0	μg/kg	10,100	3.89E+08	3.24E+01	1.20E+07	No
118-C-1_Shallow_4	non-Rad	Pyrene	129-00-0	μg/kg	350	c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,997	f	3.24E+01	_f	
118-C-1_Shallow_4	non-Rad	Vanadium	7440-62-2	μg/kg	55,400	c	3.24E+01	_c	
118-C-1_Shallow_4	non-Rad	Xylenes (total)	1330-20-7	μg/kg	1.0	c	3.24E+01	_ c	-
118-C-1_Shallow_4	non-Rad	Zinc	7440-66-6	μg/kg	42,200	3.89E+08	3.24E+01	1.20E+07	No
118-C-1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	1.2	c	3.24E+01	c	
118-C-1_Shallow_4	Rad	Europium-152	14683-23-9	pCi/g	0.16	c	3.24E+01	_c	
118-C-1_Shallow_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	c	3.24E+01	_c	el és
118-C-1_Shallow_4	Rad	Uranium-238	U-238	pCi/g	0.67	c	3.24E+01	_c	-
118-C-1_Shallow_Focused	non-Rad	Acetone	67-64-1	μg/kg	24	-c	8.42E+01	_c	
118-C-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	7.52E+06	_d	8.42E+01	_d	
118-C-1 Shallow Focused	non-Rad	Aroclor-1254	11097-69-1	μg/kg	22	_d	8.42E+01	d	
118-C-1 Shallow_Focused	non-Rad		7440-38-2	μg/kg	5,400	1.05E+07	8.42E+01	124,280	No
118-C-1_Shallow_Focused		Barium	7440-39-3	μg/kg	80,200	c	8.42E+01	_c	-
118-C-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	340	c	8.42E+01	_ c	
118-C-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	67	c	8.42E+01	c	••
118-C-1_Shallow_Focused	non-Rad		7440-42-8	μg/kg	3,200	c	8.42E+01	_c	
118-C-1_Shallow_Focused	non-Rad	Carbon tetrachloride	56-23-5	μg/kg	39	c	8.42E+01	_c	
118-C-1_Shallow_Focused		Chromium	7440-47-3	μg/kg	10,200	d	8.42E+01	d	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	μg/kg	10,500	_c	8.42E+01	_c	
118-C-1_Shallow_Focused		Copper	7440-50-8	μg/kg	23,300	93,717	8.42E+01	1,113	Yes
118-C-1_Shallow_Focused		Diethylphthalate	84-66-2	μg/kg	22	c	8.42E+01	_c	-
118-C-1_Shallow_Focused		Di-n-butylphthalate	84-74-2	μg/kg	55	c	8.42E+01	c	**
118-C-1_Shallow_Focused		Iron	7439-89-6	μg/kg	2.19E+07	2.61E+07	8.42E+01	310,093	Yes
118-C-1_Shallow_Focused		Lead	7439-92-1	μg/kg	7,200	_d	8.42E+01	d	-
118-C-1_Shallow_Focused		Manganese	7439-96-5	μg/kg	446,000	c	8.42E+01	-c	
118-C-1_Shallow_Focused		Mercury	7439-97-6	μg/kg	40	80,585	8.42E+01	957	No
118-C-1_Shallow_Focused		Methylene chloride	75-09-2	μg/kg	19	c	8.42E+01	_c	
118-C-1_Shallow_Focused		Nickel	7440-02-0	μg/kg	14,100	3.89E+08	8.42E+01	4.62E+06	No
118-C-1_Shallow_Focused		Phenol	108-95-2	μg/kg	36	c	8.42E+01	c	-
118-C-1_Shallow_Focused		Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,438	f	8.42E+01	_f	
118-C-1_Shallow_Focused		Vanadium	7440-62-2	μg/kg	46,400	c	8.42E+01	c	-
118-C-1_Shallow_Focused	non-Rad		7440-66-6	μg/kg	45,100 0.55	3.89E+08	8.42E+01 8.42E+01	4.62E+06	No
118-C-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.33	c	8.42E+01	c	
118-C-1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g		c		_c	
118-C-1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.68	c	8.42E+01	_c	
118-C-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.48	c	8.42E+01		-
118-C-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	c	9.80E+00	_c	
118-C-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	79	c	9.80E+00	_c	-
118-C-3:2_Deep_Focused		Hexavalent Chromium	18540-29-9	μg/kg	120	6,000 ^e	4.30E+00	6,000 ^e	No
118-C-3:2_Deep_Focused		Lead	7439-92-1	μg/kg	120,000	d	4.30E+00	d	-
118-C-3:2_Deep_Focused		Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,110	f	4.30E+00	_f	
118-C-3:2_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	2.7	c	4.30E+00	C	
118-C-3:2_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	171	c	4.30E+00	c	
118-C-3:2_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	,c	4.30E+00	-c	-
118-C-3:2_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	9.2	c	4.30E+00	c	
118-C-3:2_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.5	_c	4.30E+00	_c	-
118-C-3:2_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	57	c	4.30E+00	_c	
118-C-3:2_Deep_Focused	Rad	Plutonium-238	13981-16-3	pCi/g	0.26	_c	4.30E+00	_c	**
118-C-3:2_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	10	c	4.30E+00	c	
118-C-3:2_Deep_Focused	Rad	Technetium-99	14133-76-7	pCi/g	1.2	_c	4.30E+00	_c	
118-C-3:2_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	38	_c	4.30E+00	_c	-
118-C-3:2_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.81	_c	4.30E+00	_c	-
118-C-3:2_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.050	c	4.30E+00	_c	
118-C-3:2_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.70	c	4.30E+00	_c	deal .
118-C-3:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.58E+06	_d	6.03E+01	d	-
118-C-3:3_Shallow_Focused		Aroclor-1254	11097-69-1	μg/kg	5.1	_d	6.03E+01	_d	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	e Decision Units to STOMP 1	0 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCi}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length In Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-3:3_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	6.5	d	6.03E+01	d	
118-C-3:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	3,400	1.05E+07	6.03E+01	173,539	No
118-C-3:3_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	80,000	_c	6.03E+01	c	
118-C-3:3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	75	_c	6.03E+01	_c	
118-C-3:3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	73	c	6.03E+01	C	-944
118-C-3:3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	59	c	6.03E+01	C	
118-C-3:3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	68	c	6.03E+01	_c	
118-C-3:3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	690	_c	6.03E+01	C	
118-C-3:3 Shallow Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	65	c	6.03E+01	-c	
118-C-3:3_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	1,400	_c	6.03E+01	-c	
118-C-3:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	16,400	_d	6.03E+01	d	••
118-C-3:3 Shallow Focused		Chrysene	218-01-9	μg/kg	100	_c	6.03E+01	c	00
118-C-3:3 Shallow_Focused		Cobalt	7440-48-4	μg/kg	7,400	_c	6.03E+01	_c	
118-C-3:3 Shallow Focused		Copper	7440-50-8	μg/kg	38,300	93,717	6.03E+01	1,554	Yes
118-C-3:3_Shallow_Focused		Di-n-butylphthalate	84-74-2	μg/kg	19	_c	6.03E+01	_c	-
118-C-3:3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	μg/kg	160	c	6.03E+01	_c	-
118-C-3:3_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	540	6,000 ^e	6.03E+01	6,000 ^e	No
118-C-3:3_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	52	c	6.03E+01	_c	
118-C-3:3_Shallow_Focused	non-Rad		7439-89-6	μg/kg	2.27E+07	2.61E+07	6.03E+01	432,999	Yes
118-C-3:3_Shallow_Focused	non-Rad	A Mary Mary Control of the Control o	7439-92-1	µg/kg	7,900	d	6.03E+01	_d	**
118-C-3:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	297,000	c	6.03E+01	_c	**
118-C-3:3 Shallow Focused	non-Rad	Mercury	7439-97-6	μg/kg	800	80,585	6.03E+01	1,336	No
118-C-3:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	14,400	3.89E+08	6.03E+01	6.45E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Pyrene	129-00-0	μg/kg	170	_c	6.03E+01	_c	
118-C-3:3_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	370	1,000	6.03E+01	17	Yes
118-C-3:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,025	f	6.03E+01		
118-C-3:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	48,700	c	6.03E+01	c	00
118-C-3:3_Shallow_Focused		Zinc	7440-66-6	μg/kg	50,200	3.89E+08	6.03E+01	6.45E+06	No
118-C-3:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	c	6.03E+01	_c	
118-C-3:3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.051	c	6.03E+01	_c	**
118-C-3:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	_c	6.03E+01	_c	**
118-C-4_Shallow	non-Rad		7440-38-2	μg/kg	2,500	1.05E+07	5.20E+00	2.01E+06	No
118-C-4_Shallow		Barium	7440-39-3	μg/kg	44,800	c	5.20E+00	_c	
118-C-4_Shallow		Benzo(a)anthracene	56-55-3	μg/kg	41	c	5.20E+00	c	**
118-C-4_Shallow		Benzo(a)pyrene	50-32-8	μg/kg	44	_c	5.20E+00	_c	
118-C-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	46	_c	5.20E+00	c	
118-C-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	45	_c	5.20E+00	c	
118-C-4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	130	c	5.20E+00	_c	**
118-C-4_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	7,800	d	5.20E+00	d	

Waste Site/Decision Unit	Analyte Group	2-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	0 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
118-C-4_Shallow	non-Rad	Chrysene	218-01-9	μg/kg	44	c	5.20E+00	_c	
118-C-4_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	34	c	5.20E+00	_c	***
118-C-4_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	74	c	5.20E+00	_c	***
118-C-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	19	c	5.20E+00	_c	***
118-C-4_Shallow	non-Rad	Lead	7439-92-1	μg/kg	20,100	d	5.20E+00	_d	
118-C-4_Shallow	non-Rad	Methylene chloride	75-09-2	μg/kg	12	_c	5.20E+00	_c	
118-C-4_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	100	_c	5.20E+00	_c	
118-C-4_Shallow	non-Rad	Toluene	108-88-3	μg/kg	1.7	_c	5.20E+00	_c	***
118-C-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	1,795	_f	5.20E+00	_f	
118-C-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	_c	5.20E+00	_c	**
118-C-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	_c	5.20E+00	_c	do do
120-B-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	6.70E+06	_d	1.06E+01	_d	
120-B-1 Shallow Focused	non-Rad	Aroclor-1221	11104-28-2	μg/kg	9.8	17.0	1.06E+01	1.6	Yes
120-B-1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	170	_d	1.06E+01	_d	
120-B-1_Shallow_Focused		Arsenic	7440-38-2	μg/kg	5,000	1.05E+07	1.06E+01	987,207	No
120-B-1_Shallow_Focused		Barium	7440-39-3	μg/kg	135,000	c	1.06E+01	_c	
120-B-1_Shallow_Focused		Beryllium	7440-41-7	μg/kg	310	_ C	1.06E+01	C	
120-B-1_Shallow_Focused		Boron	7440-42-8	μg/kg	8,100	c	1.06E+01	_c	
120-B-1_Shallow_Focused		Chromium	7440-47-3	μg/kg	273,000	_d	1.06E+01	_d	
120-B-1_Shallow_Focused		Cobalt	7440-48-4	μg/kg	9,100	_c	1.06E+01	_c	
120-B-1_Shallow_Focused		Copper	7440-50-8	μg/kg	19,800	93,717	1.06E+01	8,841	Yes
120-B-1_Shallow_Focused		Fluoride	16984-48-8	μg/kg	3,800	_c	1.06E+01	c	
120-B-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	380	6,000 ^e	1.06E+01	6,000 ^e	No
120-B-1_Shallow_Focused		Iron	7439-89-6	μg/kg	2.32E+07	2.61E+07	1.06E+01	2.46E+06	Yes
120-B-1_Shallow_Focused		Lead	7439-92-1	μg/kg	15,400	_d	1.06E+01	_d	
120-B-1_Shallow_Focused		Manganese	7439-96-5	μg/kg	336,000	_c	1.06E+01	C	
120-B-1_Shallow_Focused		Mercury	7439-97-6	μg/kg	90	80,585	1.06E+01	7,602	No
120-B-1_Shallow_Focused		Molybdenum	7439-98-7	μg/kg	2,300	_c	1.06E+01	_c	
120-B-1 Shallow Focused	non-Rad		7440-02-0	μg/kg	13,800	3.89E+08	1.06E+01	3.67E+07	No
120-B-1_Shallow_Focused	non-Rad		7440-22-4	μg/kg	230	826	1.06E+01	78	Yes
120-B-1_Shallow_Focused		Vanadium	7440-62-2	μg/kg	55,900	_c	1.06E+01	_c	disor
120-B-1_Shallow_Focused	non-Rad		7440-66-6	μg/kg	72,200	3.89E+08	1.06E+01	3.67E+07	No
126-B-3_Shallow	non-Rad	1,2,4-Trichlorobenzene	120-82-1	μg/kg	52	_c	8.74E+01	_c	-
126-B-3_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	μg/kg	122	_c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Acenaphthene	83-32-9	μg/kg	55	c	8.74E+01	_c	40
126-B-3_Shallow	non-Rad	Anthracene	120-12-7	μg/kg	149	c	8.74E+01	_c	ma
126-B-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	μg/kg	. 17	d	8.74E+01	d	-
126-B-3_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	5,698	1.05E+07	8.74E+01	119,730	No
126-B-3_Shallow	non-Rad	Barium	7440-39-3	μg/kg	95,187	_c	8.74E+01	_c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	Site Decision Units to STOMP 1 CAS No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
126-B-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	348	_c	8.74E+01	c	
126-B-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	269	c	8.74E+01	c	-
126-B-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	191	_c	8.74E+01	c	
126-B-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	244	c	8.74E+01	c	
126-B-3_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	550	c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	55	c	8.74E+01	_c	
126-B-3_Shallow		Boron	7440-42-8	μg/kg	4,975	_c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	356	500	8.74E+01	5.7	Yes
126-B-3_Shallow	non-Rad	Carbazole	86-74-8	μg/kg	75	_c	8.74E+01	-c	
126-B-3_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	11,526	_d	8.74E+01	d	
126-B-3_Shallow	non-Rad	Chrysene	218-01-9	μg/kg	122	_c	8.74E+01	c	
126-B-3_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	11,663	_c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Copper	7440-50-8	μg/kg	23,531	93,717	8.74E+01	1,072	Yes
126-B-3_Shallow		Dibenz[a,h]anthracene	53-70-3	μg/kg	88	_c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Dibenzofuran	132-64-9	μg/kg	99	_c	8.74E+01	_c	
126-B-3_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	35	_c	8.74E+01	_ c	
126-B-3_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	204	c	8.74E+01	_c	
126-B-3_Shallow	_	Fluorene	86-73-7	μg/kg	71	c	8.74E+01	_c	
126-B-3_Shallow		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	162	c	8.74E+01	_c	
126-B-3_Shallow		Lead	7439-92-1	μg/kg	7,968	_d	8.74E+01	d	AN HO
126-B-3_Shallow		Manganese	7439-96-5	μg/kg	472,105	c	8.74E+01	_c	
126-B-3_Shallow		Mercury	7439-97-6	μg/kg	28	80,585	8.74E+01	922	No
126-B-3_Shallow		Molybdenum	7439-98-7	μg/kg	1,227	_c	8.74E+01	_ c	-
126-B-3_Shallow		Naphthalene	91-20-3	μg/kg	118	c	8.74E+01	_c	
126-B-3_Shallow	non-Rad		7440-02-0	μg/kg	15,632	3.89E+08	8.74E+01	4.45E+06	No
126-B-3_Shallow		n-Nitrosodiphenylamine	86-30-6	μg/kg		c	8.74E+01	c	
126-B-3_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	180	c	8.74E+01	_c	
126-B-3_Shallow		Vanadium	7440-62-2	μg/kg	67,526	c	8.74E+01	_c	
126-B-3_Shallow	non-Rad		7440-66-6	μg/kg	63,252	3.89E+08	8.74E+01	4.45E+06	No
128-B-2_Shallow		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	16	c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	μg/kg	68	_d	9.50E+01	_d	
128-B-2 Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	2,918	1.05E+07	9.50E+01	110,152	No
128-B-2_Shallow	non-Rad		7440-39-3	μg/kg	71,594	-c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	941	c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	206	_c	9.50E+01	_c	
128-B-2_Shallow	non-Rad		7440-42-8	μg/kg	2,750	_ c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Butylbenzylphthalate	85-68-7	μg/kg	17	c	9.50E+01	_c	
128-B-2 Shallow		Cadmium	7440-43-9	μg/kg	190	500	9.50E+01	5.3	Yes
128-B-2_Shallow		Chlordane	57-74-9	μg/kg	24	24,442	9.50E+01	257	No

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right).$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
128-B-2_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	14,448	_d	9.50E+01	_d	-
128-B-2_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	8,253	_c	9.50E+01	_c	-
128-B-2_Shallow	non-Rad	Copper	7440-50-8	μg/kg	14,009	93,717	9.50E+01	986	Yes
128-B-2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	36	c	9.50E+01	_c	-
128-B-2_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	22	_c	9.50E+01	c	
128-B-2_Shallow	non-Rad	Lead	7439-92-1	μg/kg	32,438	d	9.50E+01	d	
128-B-2_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	357,286	c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	22	80,585	9.50E+01	848	No
128-B-2_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	1,077	c	9.50E+01	_c	-
128-B-2_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	11,421	3.89E+08	9.50E+01	4.09E+06	No
128-B-2_Shallow	non-Rad	Phenol	108-95-2	μg/kg	22	c	9.50E+01	c	
128-B-2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	31	_c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Toluene	108-88-3	μg/kg	4.0	_c	9.50E+01	_c	***
128-B-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	μg/kg	2,006	_f	9.50E+01	_f	
128-B-2_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	45,088	c	9.50E+01	_c	
128-B-2_Shallow	non-Rad	Zinc	7440-66-6	μg/kg	45,328	3.89E+08	9.50E+01	4.09E+06	No
128-B-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.31	_ c	9.50E+01	c	
128-B-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	c	9.50E+01	_c	
128-B-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.68	c	9.50E+01	_c	
128-B-3_Shallow_1	non-Rad	Aluminum	7429-90-5	μg/kg	6.53E+06	d	1.54E+01	_d	
128-B-3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	μg/kg	190	d	1.54E+01	d	
128-B-3 Shallow 1	non-Rad	Arsenic	7440-38-2	μg/kg	3,375	1.05E+07	1.54E+01	679,506	No
128-B-3_Shallow_1	non-Rad	Barium	7440-39-3	μg/kg	87,728	_c	1.54E+01	c	
128-B-3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	24	c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	17	c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	32	_c	1.54E+01	-c	
128-B-3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	30	c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad	Beryllium	7440-41-7	μg/kg	351	c	1.54E+01	_c	-
128-B-3_Shallow_1		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	51	_c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad	Boron	7440-42-8	μg/kg	2,753	_c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad	Chromium	7440-47-3	μg/kg	14,012	d	1.54E+01	_d	
128-B-3_Shallow_1		Chrysene	218-01-9	μg/kg	38	_c	1.54E+01	_c	••
128-B-3_Shallow_1	non-Rad		7440-48-4	μg/kg	6,532	_c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad		7440-50-8	μg/kg	16,975	93,717	1.54E+01	6,086	Yes
128-B-3_Shallow_1		Di-n-butylphthalate	84-74-2	µg/kg	22	_c	1.54E+01	_c	-
128-B-3_Shallow_1	non-Rad		72-20-8	μg/kg	2.4	3.0	1.54E+01	0.19	Yes
128-B-3_Shallow_1		Fluoranthene	206-44-0	μg/kg	20	_ c	1.54E+01	-c	-
128-B-3_Shallow_1	non-Rad	Iron	7439-89-6	μg/kg	1.59E+07	2.61E+07	1.54E+01	1.70E+06	Yes
128-B-3_Shallow_1	non-Rad		7439-92-1	μg/kg	5,471	_d	1.54E+01	_d	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
128-B-3_Shallow_1		Manganese	7439-96-5	μg/kg	310,456	c	1.54E+01	_c	
128-B-3_Shallow 1		Mercury	7439-97-6	μg/kg	63	80,585	1.54E+01	5,233	No
128-B-3_Shallow_1		Methylene chloride	75-09-2	μg/kg	8.2	c	1.54E+01	c	
128-B-3_Shallow_1	non-Rad	Nickel	7440-02-0	μg/kg	13,472	3.89E+08	1.54E+01	2.53E+07	No
128-B-3_Shallow_1	non-Rad	Pyrene	129-00-0	μg/kg	31	c	1.54E+01	c	M-104
128-B-3_Shallow_1	non-Rad	Vanadium	7440-62-2	μg/kg	34,972	_ c	1.54E+01	_c	
128-B-3_Shallow_1	non-Rad		7440-66-6	μg/kg	40,336	3.89E+08	1.54E+01	2.53E+07	No
128-B-3_Shallow_2		Aluminum	7429-90-5	μg/kg	8.79E+06	d	4.57E+01	_d	***
128-B-3_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	μg/kg	17	_d	4.57E+01	d	
128-B-3_Shallow_2		Arsenic	7440-38-2	μg/kg	5,473	1.05E+07	4.57E+01	228,980	No
128-B-3_Shallow_2			7440-39-3	μg/kg	126,504	_c	4.57E+01	c	
128-B-3_Shallow_2		Beryllium	7440-41-7	μg/kg	450	c	4.57E+01	_c	
128-B-3_Shallow_2	non-Rad	Boron	7440-42-8	μg/kg	6,364	c	4.57E+01	_c	
128-B-3_Shallow_2	non-Rad	Cadmium	7440-43-9	μg/kg	520	500	4.57E+01	11	Yes
128-B-3_Shallow_2	non-Rad	Chromium	7440-47-3	μg/kg	36,702	d	4.57E+01	d	
128-B-3_Shallow_2	non-Rad	Cobalt	7440-48-4	μg/kg	8,114	c	4.57E+01	c	
128-B-3 Shallow 2	non-Rad	Copper	7440-50-8	μg/kg	38,045	93,717	4.57E+01	2,051	Yes
128-B-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	544	6,000 ^e	4.57E+01	6,000°	No
128-B-3 Shallow 2		Iron	7439-89-6	μg/kg	1.98E+07	2.61E+07	4.57E+01	571,331	Yes
128-B-3_Shallow_2	non-Rad	Lead	7439-92-1	μg/kg	40,282	d	4.57E+01	_d	
128-B-3_Shallow_2	non-Rad	Manganese	7439-96-5	μg/kg	398,092	c	4.57E+01	, c	
128-B-3 Shallow 2	non-Rad	Mercury	7439-97-6	μg/kg	72	80,585	4.57E+01	1,763	No
128-B-3_Shallow_2	non-Rad	Methylene chloride	75-09-2	μg/kg	12	c	4.57E+01	_c	
128-B-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	μg/kg	870	_c	4.57E+01	_c	
128-B-3_Shallow_2		Nickel	7440-02-0	μg/kg	17,711	3.89E+08	4.57E+01	8.51E+06	No
128-B-3 Shallow_2	non-Rad		7440-22-4	μg/kg	241	826	4.57E+01	18	Yes
128-B-3_Shallow_2		Total petroleum hydrocarbons	TPH	μg/kg	431,000	C	4.57E+01	c	
128-B-3_Shallow_2	non-Rad	Vanadium	7440-62-2	μg/kg	41,172	_c	4.57E+01	c	
128-B-3 Shallow 2	non-Rad		7440-66-6	μg/kg	109,940	3.89E+08	4.57E+01	8.51E+06	No
128-B-3_Shallow_3		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg		c	3.98E+01	c	
128-B-3_Shallow_3		4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	12	d	3.98E+01	d	
128-B-3_Shallow_3		Acetone	67-64-1	μg/kg	15	C	3.98E+01	c	
128-B-3_Shallow_3	non-Rad		309-00-2	μg/kg	0.37	7,293	3.98E+01	183	No
128-B-3_Shallow_3		Aluminum	7429-90-5	µg/kg	8.03E+06	_d	3.98E+01	_d	**
128-B-3_Shallow_3		Aroclor-1254	11097-69-1	µg/kg	29	_d	3.98E+01	_d	
128-B-3_Shallow_3		Aroclor-1260	11096-82-5	μg/kg		_d	3.98E+01	d	
128-B-3_Shallow_3		Arsenic Arsenic	7440-38-2	μg/kg		1.05E+07	3.98E+01	262,925	No
128-B-3_Shallow_3		Barium	7440-39-3	μg/kg		c	3.98E+01	c	
128-B-3_Shallow_3		Benzo(a)anthracene	56-55-3	µg/kg		_c	3.98E+01	_c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
128-B-3_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	53	_c	3.98E+01	_c	
128-B-3_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	55	_c	3.98E+01	_c	**
128-B-3_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	43	_c	3.98E+01	_c	-
128-B-3_Shallow_3	non-Rad	Beryllium	7440-41-7	μg/kg	425	c	3.98E+01	_c	••
128-B-3_Shallow 3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	64	c	3.98E+01	_c	-
128-B-3_Shallow_3		Boron	7440-42-8	μg/kg	2,624	_c	3.98E+01	_c	to be
128-B-3 Shallow 3	1,57	Cadmium	7440-43-9	μg/kg	590	500	3.98E+01	13	Yes
128-B-3_Shallow_3		Chlordane	57-74-9	μg/kg	0.33	24,442	3.98E+01	614	No
128-B-3_Shallow_3		Chromium	7440-47-3	μg/kg	15,508	_d	3.98E+01	_d	44
128-B-3_Shallow_3		Chrysene	218-01-9	μg/kg	100	_c	3.98E+01	_c	
128-B-3 Shallow 3	non-Rad		7440-48-4	μg/kg	8,273	C	3.98E+01	c	••
128-B-3_Shallow_3		Copper	7440-50-8	μg/kg	18,016	93,717	3.98E+01	2,355	Yes
128-B-3_Shallow_3		Dibenz[a,h]anthracene	53-70-3	μg/kg	56	c	3.98E+01	c	103
128-B-3_Shallow_3		Di-n-butylphthalate	84-74-2	μg/kg	29	_c	3.98E+01	_c	-
128-B-3_Shallow_3		Fluoranthene	206-44-0	μg/kg	62	, C	3.98E+01	_c	**
128-B-3_Shallow_3		Hexavalent Chromium	18540-29-9	μg/kg	293		3.98E+01		No
128-B-3_Shallow_3		Indeno(1,2,3-cd)pyrene		_		6,000 ^e		6,000 ^e	
128-B-3_Shallow_3	non-Rad		193-39-5	μg/kg	50	c	3.98E+01	°C	V
128-B-3_Shallow_3	_	Lead	7439-89-6 7439-92-1	μg/kg	1.98E+07 8,356	2.61E+07 d	3.98E+01 3.98E+01	656,026 d	Yes
128-B-3_Shallow_3		Manganese		μg/kg			3.98E+01		
			7439-96-5	μg/kg	380,095	C		_c	A)
128-B-3_Shallow_3 128-B-3_Shallow_3		Mercury Methoxychlor	7439-97-6 72-43-5	μg/kg	3.6	80,585 d	3.98E+01 3.98E+01	2,025	No
				μg/kg				_d	
128-B-3_Shallow_3		Methylene chloride	75-09-2	μg/kg	16	c	3.98E+01	_c	-
128-B-3_Shallow_3		Molybdenum	7439-98-7	μg/kg	4,700	c	3.98E+01	-c	
128-B-3_Shallow_3		Nickel	7440-02-0	μg/kg	13,571	3.89E+08	3.98E+01	9.77E+06	No
128-B-3_Shallow_3	non-Rad		129-00-0	μg/kg	87	c	3.98E+01	_c	**
128-B-3_Shallow_3 128-B-3_Shallow_3	non-Rad		7440-22-4	μg/kg	300	826	3.98E+01	21	Yes
		Toluene	108-88-3	μg/kg	1.8	c	3.98E+01	_c	
128-B-3_Shallow_3	non-Rad	Total petroleum hydrocarbons	ТРН	μg/kg	258,000	_c	3.98E+01	_c	
128-B-3_Shallow_3		Vanadium .	7440-62-2	µg/kg	41,734	c	3.98E+01	c	**
128-B-3_Shallow_3		Xylenes (total)	1330-20-7	μg/kg	2.5	c	3.98E+01	_c	-
128-B-3_Shallow_3		Zinc	7440-66-6	μg/kg	49,543	3.89E+08	3.98E+01	9.77E+06	No
128-C-1_Shallow		Antimony	7440-36-0	μg/kg	858	c	4.54E+01	c	
128-C-1_Shallow		Aroclor-1254	11097-69-1	µg/kg	140	q	4.54E+01	_d	
128-C-1_Shallow		Aroclor-1260	11096-82-5	μg/kg	11	_d	4.54E+01	_d	**
128-C-1_Shallow		Arsenic	7440-38-2	μg/kg	4,270	1.05E+07	4.54E+01	230,493	No
128-C-1_Shallow		Barium	7440-39-3	μg/kg	60,255	, C	4.54E+01	_c	
128-C-1_Shallow		Benzo(a)anthracene	56-55-3	μg/kg	29	C	4.54E+01	c	••
128-C-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	31	_c	4.54E+01	_c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection* $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
128-C-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	32	c	4.54E+01	C	
128-C-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	30	_c	4.54E+01	_ c	
128-C-1_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	784	_c	4.54E+01	_c	
128-C-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	1,682	c	4.54E+01	C	
128-C-1_Shallow	non-Rad	Boron	7440-42-8	μg/kg	9,818	_c	4.54E+01	_c	
128-C-1_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	990	500	4.54E+01	11	Yes
128-C-1_Shallow		Chromium	7440-47-3	μg/kg	17,242	_d	4.54E+01	_ d	_
128-C-1_Shallow	non-Rad	Chrysene	218-01-9	μg/kg	38	c	4.54E+01	_ c	
128-C-1_Shallow		Cobalt	7440-48-4	μg/kg	7,402	_c	4.54E+01	_c	
128-C-1_Shallow		Copper	7440-50-8	μg/kg	48,008	93,717	4.54E+01	2,064	Yes
128-C-1_Shallow		Di-n-butylphthalate	84-74-2	μg/kg	40	_c	4.54E+01	_ c	40
128-C-1_Shallow		Fluoranthene	206-44-0	μg/kg	53	_c	4.54E+01	C	
128-C-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	21	_c	4.54E+01	C	
128-C-1_Shallow		Lead	7439-92-1	μg/kg	30,352	d	4.54E+01	_d	
128-C-1_Shallow		Lithium	7439-93-2	μg/kg	6,737	_c	4.54E+01	_ c	
128-C-1_Shallow		Manganese	7439-96-5	μg/kg	315,815	_c	4.54E+01	c	
128-C-1_Shallow	non-Rad		7439-97-6	μg/kg	50	80,585	4.54E+01	1,775	No
128-C-1_Shallow		Molybdenum	7439-98-7	μg/kg	1,900	_ c	4.54E+01	_c	
128-C-1_Shallow	non-Rad		7440-02-0	μg/kg	11,617	3.89E+08	4.54E+01	8.57E+06	No
128-C-1_Shallow		Pyrene	129-00-0	μg/kg	43	c	4.54E+01	_ c	
128-C-1_Shallow		Selenium	7782-49-2	μg/kg	1,300	1,000	4.54E+01	22	Yes
128-C-1_Shallow	non-Rad		7440-22-4	μg/kg	6,600	826	4.54E+01	18	Yes
128-C-1_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	39,675	_c	4.54E+01	_c	
128-C-1_Shallow	non-Rad	Zinc	7440-66-6	μg/kg	70,414	3.89E+08	4.54E+01	8.57E+06	No
128-C-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	6,100	1.05E+07	3.70E+01	282,822	No
128-C-1_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	94,710	_c	3.70E+01	_c	
128-C-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	36	c	3.70E+01	**c	
128-C-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	μg/kg	1,797	500	3.70E+01	14	Yes
128-C-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	19,600	d	3.70E+01	d	
128-C-1_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	61,300	d	3.70E+01	_d	
128-C-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	μg/kg	200	80,585	3.70E+01	2,178	No
128-C-1_Shallow_Focused	non-Rad	Silver	7440-22-4	μg/kg	150	826	3.70E+01	22	Yes
128-C-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons	TPH	μg/kg	44,700	_c	3.70E+01	c	-
1607-B1_Shallow_Focused	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	μg/kg	1.0	_c	6.30E+00	_ C	-
1607-B1_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	21	d	6.30E+00	_d	
1607-B1_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	μg/kg	0.52	_c	6.30E+00	_c	-
1607-B1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	μg/kg	6.95E+06	_d	6.30E+00	_d	-
1607-B1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	μg/kg	11	d	6.30E+00	d	
1607-B1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	μg/kg	4,200	1.05E+07	6.30E+00	1.66E+06	No

Waste Site/Decision Unit	Analyte Group		CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
1607-B1_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	138,000	_c	6.30E+00	c	••
1607-B1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	μg/kg	270	_c	6.30E+00	_c	64
1607-B1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	98	_c	6.30E+00	_c	***
1607-B1_Shallow_Focused	non-Rad	Boron	7440-42-8	μg/kg	2,400	c	6.30E+00	_c	***
1607-B1_Shallow_Focused	non-Rad	Chromium	7440-47-3	μg/kg	9,600	_d	6.30E+00	_d	
1607-B1_Shallow_Focused		Cobalt	7440-48-4	μg/kg	8,900	_c	6.30E+00	-c	
1607-B1_Shallow_Focused	non-Rad	Copper	7440-50-8	μg/kg	20,200	93,717	6.30E+00	14,876	Yes
1607-B1_Shallow_Focused		Di-n-butylphthalate	84-74-2	μg/kg	26	_c	6.30E+00	_c	
1607-B1_Shallow_Focused		Hexavalent Chromium	18540-29-9	μg/kg	300	6,000 ^e	6.30E+00	6,000 ^e	No
1607-B1 Shallow Focused	non-Rad	Iron	7439-89-6	μg/kg	2.30E+07	2.61E+07	6.30E+00	4.14E+06	Yes
1607-B1_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	8,600	_d	6.30E+00	_d	-
1607-B1_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	304,000	c	6.30E+00	c	
1607-B1 Shallow Focused		Mercury	7439-97-6	μg/kg	230	80,585	6.30E+00	12,791	No
1607-B1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	μg/kg	570	_c	6.30E+00	_c	***
1607-B1_Shallow_Focused		Nickel	7440-02-0	μg/kg	11,300	3.89E+08	6.30E+00	6.17E+07	No
1607-B1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	μg/kg	42,200	_c	6.30E+00	_c	
1607-B1 Shallow Focused		Zinc	7440-66-6	μg/kg	93,900	3.89E+08	6.30E+00	6.17E+07	No
1607-B1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	c	6.30E+00	_c	
1607-B10_Shallow		4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	4.5	_d	1.46E+01	_d	
1607-B10_Shallow		Aroclor-1254	11097-69-1	μg/kg	57	_d	1.46E+01	_d	
1607-B10_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	4,500	1.05E+07	1.46E+01	716,739	No
1607-B10_Shallow		Barium	7440-39-3	μg/kg	82,400	_c	1.46E+01	c c	
1607-B10_Shallow		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	22	c	1.46E+01	C C	
1607-B10 Shallow		Cadmium	7440-43-9	μg/kg	160	500	1.46E+01	34	Yes
1607-B10_Shallow		Chromium	7440-47-3	µg/kg	25,200	_d	1.46E+01	_d	
1607-B10_Shallow		Fluoranthene	206-44-0	μg/kg	30	c	1.46E+01	c	**
1607-B10_Shallow	non-Rad		7439-92-1	μg/kg	17,900	d	1.46E+01	d	
1607-B10 Shallow		Mercury	7439-97-6	μg/kg	380	80,585	1.46E+01	5,520	No
1607-B10_Shallow	_	Pyrene	129-00-0	μg/kg	27	c	1.46E+01	c	
1607-B10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.054	_c	1.46E+01	_ c	**
1607-B11_Shallow	_	Arsenic	7440-38-2	μg/kg	5,900	1.05E+07	1.02E+01	1.03E+06	No
1607-B11_Shallow	non-Rad		7440-39-3	µg/kg	76,500	c	1.02E+01	_c	
1607-B11_Shallow		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	680	c	1.02E+01	_c	
1607-B11_Shallow		Chromium	7440-47-3	μg/kg	14,000	_d	1.02E+01	_d	
1607-B11_Shallow	non-Rad		7439-92-1	µg/kg	10,300	_d	1.02E+01	_d	
1607-B11_Shallow		Mercury	7439-97-6	μg/kg	30	80,585	1.02E+01	7,901	No
1607-B11_Shallow		2,4,5-T(2,4,5-Trichlorophenoxyacetic acid)	93-76-5	μg/kg	47	c	3.57E+01	_c	
1607-B2:1_Shallow		2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	93-72-1	μg/kg	23	_c	3.57E+01	-c	-
1607-B2:1_Shallow		2,4-D(2,4-Dichlorophenoxyacetic acid)	94-75-7	µg/kg	110	c	3.57E+01	c	

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Si	ite Decision Units to STOMP 1	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	Source Model Soil Screening Level STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCi}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg	Is EPC > Soil Screening Level Protective of Surface Water?
1607-B2:1_Shallow	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	μg/kg	250	c	3.57E+01	_c	e4
1607-B2:1_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	μg/kg	154	_c	3.57E+01	C	***
1607-B2:1_Shallow	non-Rad	Acetone	67-64-1	μg/kg	15	c	3.57E+01	C	
1607-B2:1_Shallow	non-Rad	Antimony	7440-36-0	μg/kg	457	c	3.57E+01	_ c	
1607-B2:1_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	7,121	1.05E+07	3.57E+01	293,120	No
1607-B2:1_Shallow	non-Rad	Barium	7440-39-3	μg/kg	386,965	c	3.57E+01	_c	
1607-B2:1_Shallow	non-Rad	Beryllium	7440-41-7	μg/kg	760	c	3.57E+01	c	**
1607-B2:1_Shallow	non-Rad	Boron	7440-42-8	μg/kg	19,810	_c	3.57E+01	c	**
1607-B2:1_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	128	500	3.57E+01	14	Yes
1607-B2:1_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	19,106	d	3.57E+01	_d	
1607-B2:1_Shallow	non-Rad	Cobalt	7440-48-4	μg/kg	12,463	c	3.57E+01	_c	**
1607-B2:1_Shallow	non-Rad	Copper	7440-50-8	μg/kg	30,171	93,717	3.57E+01	2,625	Yes
1607-B2:1_Shallow	non-Rad	Dibenzofuran	132-64-9	μg/kg	34		3.57E+01	c	
1607-B2:1_Shallow	non-Rad	Diethylphthalate	84-66-2	μg/kg	26	c	3.57E+01	c	***
1607-B2:1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	μg/kg	21	_c	3.57E+01	C	
1607-B2:1_Shallow	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	μg/kg	27	c	3.57E+01	_c	-
		Endosulfan I	959-98-8	_	1.7	4.2	3.57E+01	0.12	Yes
1607-B2:1_Shallow 1607-B2:1_Shallow	non-Rad	Endrin	72-20-8	μg/kg μg/kg	1.7	3.0	3.57E+01	0.084	Yes
1607-B2:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	μg/kg	269	6,000 ^e	3.57E+01	6,000 ^e	No
1607-B2:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	24	0,000	3.57E+01	c	
1607-B2:1_Shallow	non-Rad	Lead	7439-92-1	μg/kg	9,814	d	3.57E+01	_d	
			7439-96-5			c	3.57E+01	c	
1607-B2:1_Shallow	non-Rad	Manganese		μg/kg	577,831				
1607-B2:1_Shallow		Mercury	7439-97-6	μg/kg	1,097	80,585	3.57E+01 3.57E+01	2,257	No
1607-B2:1_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg		c		c	
1607-B2:1_Shallow	non-Rad	Naphthalene	91-20-3	μg/kg	107	c	3.57E+01	c	
1607-B2:1_Shallow	non-Rad		7440-02-0	μg/kg	20,845	3.89E+08	3.57E+01	1.09E+07	No
1607-B2:1_Shallow	non-Rad	Vanadium	7440-22-4 7440-62-2	μg/kg	140 54,015	826	3.57E+01 3.57E+01	23 c	Yes
1607-B2:1_Shallow				μg/kg		c			No
1607-B2:1_Shallow		Zinc 2-Methylnaphthalene	7440-66-6 91-57-6	μg/kg	67,465 19	3.89E+08	3.57E+01 2.40E+02	1.09E+07	No
1607-B2:2_Shallow		4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	μg/kg	18		2.40E+02		
1607-B2:2_Shallow				μg/kg		c		c	
1607-B2:2_Shallow		4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	17	d	2.40E+02	_d	
1607-B2:2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	μg/kg	0.87	24,442	2.40E+02	102	No
1607-B2:2_Shallow	non-Rad	Aluminum	7429-90-5	μg/kg	6.99E+06	d	2.40E+02	_d	***
1607-B2:2_Shallow		Antimony	7440-36-0	μg/kg	510	. C	2.40E+02	c	
1607-B2:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	μg/kg	330	d	2.40E+02	d	-
1607-B2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	μg/kg	6.7	d	2.40E+02	d	
1607-B2:2_Shallow		Arsenic	7440-38-2	μg/kg	4,098	1.05E+07	2.40E+02	43,583	No
1607-B2:2_Shallow	non-Rad	Barium	7440-39-3	μg/kg	115,790	c	2.40E+02	c	

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	D 70:30/	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
1607-B2:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	41	-c	2.40E+02	c	
1607-B2:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	33	_c	2.40E+02	c	
1607-B2:2_Shallow		Benzo(b)fluoranthene	205-99-2	μg/kg	41	_c	2.40E+02	C C	
1607-B2:2_Shallow		Benzo(k)fluoranthene	207-08-9	μg/kg	35	c .	2.40E+02	_c	
1607-B2:2_Shallow		Beryllium	7440-41-7	μg/kg	444	_c	2.40E+02	C	
1607-B2:2_Shallow		beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	μg/kg	1.9	c	2.40E+02	_c	
1607-B2:2_Shallow		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	2,681	_c	2.40E+02	_c	
1607-B2:2 Shallow		Boron	7440-42-8	μg/kg	4,666	_c	2.40E+02	_c	
	non-Rad	Cadmium	7440-43-9	µg/kg	249	500	2.40E+02	2.1	Yes
1607-B2:2_Shallow 1607-B2:2_Shallow	non-Rad	Chlordane	57-74-9	μg/kg	0.43	24,442	2.40E+02	102	No
1607-B2:2_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,679	d	2.40E+02	_d	
1607-B2:2_Shallow		Chrysene	218-01-9	μg/kg	64	_c	2.40E+02	C	-
		Cobalt	7440-48-4	μg/kg	8,488	c	2.40E+02	c	
1607-B2:2_Shallow			7440-50-8	$\overline{}$	51,480	93,717	2.40E+02	390	Yes
1607-B2:2_Shallow		Copper Dibenz[a,h]anthracene	53-70-3	μg/kg μg/kg	22	-c	2.40E+02	c	165
1607-B2:2_Shallow			84-74-2	μg/kg	33	c	2.40E+02	c	
1607-B2:2_Shallow		Di-n-butylphthalate		_		4.2	2.40E+02	0.017	
1607-B2:2_Shallow		Endosulfan I	959-98-8 33213-65-9	μg/kg μg/kg	6.9 3.4	4.2	2.40E+02	0.017	Yes Yes
1607-B2:2_Shallow		Endosulfan II Fluoranthene	206-44-0	μg/kg	79	c	2.40E+02	C.017	
1607-B2:2_Shallow			1024-57-3	_	0.60	d	2.40E+02	_d	
1607-B2:2_Shallow	non-Rad	Heptachlor epoxide		μg/kg			2.40E+02		No
1607-B2:2_Shallow		Hexavalent Chromium	18540-29-9	μg/kg	436	6,000 ^e		6,000 ^e	
1607-B2:2_Shallow		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	25	c	2.40E+02	c	
1607-B2:2_Shallow		Iron	7439-89-6	μg/kg	2.05E+07	2.61E+07	2.40E+02	108,746	Yes
1607-B2:2_Shallow		Lead	7439-92-1	μg/kg	10,463	d	2.40E+02	d	
1607-B2:2_Shallow	non-Rad	Lithium	7439-93-2	μg/kg	8,515	_c	2.40E+02	_c	
1607-B2:2_Shallow	non-Rad	Manganese	7439-96-5	μg/kg	367,714	c	2.40E+02	c	- 1
1607-B2:2_Shallow		Mercury	7439-97-6	μg/kg	240	80,585	2.40E+02	336	No
1607-B2:2_Shallow		Methoxychlor	72-43-5	μg/kg	15	d	2.40E+02	d	
1607-B2:2_Shallow	non-Rad	Molybdenum	7439-98-7	μg/kg	395	c	2.40E+02	_c	-
1607-B2:2_Shallow	non-Rad	Naphthalene	91-20-3	μg/kg	17	_c	2.40E+02	c	**
1607-B2:2_Shallow	non-Rad	Nickel	7440-02-0	μg/kg	12,682	3.89E+08	2.40E+02	1.62E+06	No
1607-B2:2_Shallow	non-Rad	Phenol	108-95-2	μg/kg	17	_с	2.40E+02	_c	tru
1607-B2:2_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	66	_c	2.40E+02	_c	-
1607-B2:2_Shallow	non-Rad	Strontium	7440-24-6	μg/kg	47,600	_c	2.40E+02	_c	-
1607-B2:2_Shallow	non-Rad	Vanadium	7440-62-2	μg/kg	46,182	_c	2.40E+02	_c	
1607-B2:2_Shallow	non-Rad		7440-66-6	μg/kg	52,128	3.89E+08	2.40E+02	1.62E+06	No
1607-B2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	_с	2.40E+02	_c	
1607-B2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.90	_c	2.40E+02	_c	**
1607-B7_Shallow	non-Rad		7440-38-2	μg/kg	3,100	1.05E+07	1.23E+01	850,764	No

Waste Site/Decision Unit	Analyte Group	7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ³ $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in	Is EPC > Soil Screening Level Protective of Surface Water?
1607-B7_Shallow	non-Rad	Barium	7440-39-3	μg/kg	80,800	_c	1.23E+01	c	
1607-B7_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	μg/kg	2.1	c	1.23E+01	c	
1607-B7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	31	c	1.23E+01	c	
1607-B7_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	236	500	1.23E+01	41	Yes
1607-B7_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	10,300	d	1.23E+01	d	
1607-B7_Shallow	non-Rad	Lead	7439-92-1	μg/kg	43,000	_d	1.23E+01	d	
1607-B7_Shallow	non-Rad	Selenium	7782-49-2	μg/kg	699	1,000	1.23E+01	81	Yes
1607-B7_Shallow	non-Rad	Silver	7440-22-4	μg/kg	96	826	1.23E+01	67	Yes
1607-B8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	μg/kg	27	d	1.43E+01	d	-
1607-B8_Shallow	non-Rad	Aroclor-1254	11097-69-1	μg/kg	380	_d	1.43E+01	d	
1607-B8_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	4,100	1.05E+07	1.43E+01	731,776	No
1607-B8_Shallow	non-Rad	Barium	7440-39-3	μg/kg	67,300	c	1.43E+01	c	
1607-B8_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	102	500	1.43E+01	35	Yes
1607-B8_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	12,500	d	1.43E+01	_d	
1607-B8_Shallow	non-Rad	Lead	7439-92-1	μg/kg	166,000	_d	1.43E+01	d	
1607-B8_Shallow	non-Rad	Mercury	7439-97-6	μg/kg	103	80,585	1.43E+01	5,635	No
1607-B8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	c	1.43E+01	_c	
1607-B9_Shallow	non-Rad	Anthracene	120-12-7	μg/kg	23	c	2.80E+01	_c	
1607-B9_Shallow	non-Rad	Arsenic	7440-38-2	μg/kg	3,511	1.05E+07	2.80E+01	373,728	No
1607-B9_Shallow		Barium	7440-39-3	μg/kg	63,408	c	2.80E+01	_c	
1607-B9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	163	_c	2.80E+01	_c	-
1607-B9_Shallow		Benzo(a)pyrene	50-32-8	μg/kg	78	_c	2.80E+01	_c	
1607-B9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	115	c	2.80E+01	_c	
1607-B9_Shallow		Benzo(k)fluoranthene	207-08-9	μg/kg	115	c	2.80E+01	_c	
1607-B9_Shallow		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	41	_c	2.80E+01	_c	
1607-B9_Shallow		Cadmium	7440-43-9	μg/kg	479	500	2.80E+01	18	Yes
1607-B9_Shallow		Carbazole	86-74-8	μg/kg	25	c	2.80E+01	_c	-
1607-B9_Shallow		Chromium	7440-47-3	μg/kg	11,970	_d	2.80E+01	_d	
1607-B9_Shallow		Chrysene	218-01-9	μg/kg	213	_c	2.80E+01	_c	
1607-B9_Shallow		Dieldrin	60-57-1	μg/kg	4.4	58	2.80E+01	2.1	Yes
1607-B9_Shallow		Di-n-butylphthalate	84-74-2	μg/kg	96	c	2.80E+01	c	
1607-B9_Shallow		Fluoranthene	206-44-0	μg/kg	314	_c	2.80E+01	c	
		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	38	c	2.80E+01	C C	
1607-B9_Shallow	non-Rad		7439-92-1	μg/kg	10,831	d	2.80E+01	d	
1607-B9_Shallow			7439-97-6	_					
1607-B9_Shallow		Mercury	129-00-0	μg/kg μg/kg	68 272	80,585 c	2.80E+01 2.80E+01	2,878 c	No
1607-B9_Shallow		Pyrene			435				
1607-B9_Shallow		Selenium Aroclor-1254	7782-49-2 11097-69-1	μg/kg μg/kg	23	1,000	2.80E+01 1.48E+02	36 d	Yes
600-232_Shallow 600-232_Shallow		Arsenic	7440-38-2	μg/kg	2,048	1.05E+07	1.48E+02	70,801	No

Table 7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	-2. Comparison of EPCs from 100-BC Operable Unit Waste S Analyte Name	CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCi}{g} \cdot m\right)$		STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
600-232_Shallow	non-Rad	Barium	7440-39-3	μg/kg	58,814	c	1.48E+02	_c	
600-232_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	143	_c	1.48E+02	_ c	•••
600-232_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	91	c	1.48E+02	C C	846
600-232_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	μg/kg	125	c	1.48E+02	C	**
600-232_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	μg/kg	117	_c	1.48E+02	C	
600-232_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	36	c	1.48E+02	_c	**
600-232_Shallow	non-Rad	Cadmium	7440-43-9	μg/kg	78	500	1.48E+02	3.4	Yes
600-232_Shallow	non-Rad	Carbazole	86-74-8	µg/kg	28	_c	1.48E+02	_c	
600-232_Shallow	non-Rad	Chromium	7440-47-3	μg/kg	8,520	_d	1.48E+02	d	ener
600-232_Shallow	non-Rad	Chrysene	218-01-9	μg/kg	178	_ c	1.48E+02	C	
600-232_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	μg/kg	18	C	1.48E+02	c	6149
600-232_Shallow	non-Rad	Di-n-octylphthalate	117-84-0	μg/kg	28	_c	1.48E+02	c	**
600-232_Shallow	non-Rad	Fluoranthene	206-44-0	μg/kg	257	c	1.48E+02	c	
600-232_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	43	_c	1.48E+02	C	
600-232_Shallow		Lead	7439-92-1	μg/kg	4,394	_d	1.48E+02	_d	
600-232 Shallow		Mercury	7439-97-6	μg/kg	20	80,585	1.48E+02	545	No
600-232_Shallow		Pentachlorophenol	87-86-5	μg/kg	150	330	1.48E+02	2.2	Yes
600-232_Shallow	non-Rad	Pyrene	129-00-0	μg/kg	227	c	1.48E+02	C	
600-232_Shallow	non-Rad	Total petroleum hydrocarbons	TPH	μg/kg	10,059	c	1.48E+02	_ C	
600-233_Shallow_Focused	non-Rad	Anthracene	120-12-7	μg/kg	47	c	2.10E+00	c	
600-233_Shallow_Focused	non-Rad	Barium	7440-39-3	μg/kg	51,200	_c	2.10E+00	C	-
600-233_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	μg/kg	290	_c	2.10E+00	C e	-
600-233_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	μg/kg	180	_c	2.10E+00	c	-
600-233_Shallow_Focused		Benzo(b)fluoranthene	205-99-2	μg/kg	220	_c	2.10E+00	_ c	
600-233_Shallow_Focused		Benzo(k)fluoranthene	207-08-9	μg/kg	180	_ c	2.10E+00	c	==
600-233_Shallow_Focused		Beryllium	7440-41-7	μg/kg	410	_c	2.10E+00	_c	
600-233_Shallow_Focused		Bis(2-ethylhexyl) phthalate	117-81-7	μg/kg	140	_c	2.10E+ 0 0	_c	
600-233_Shallow_Focused	non-Rad		7440-42-8	μg/kg	1,500	_c	2.10E+00	c	Pio .
600-233_Shallow_Focused		Butylbenzylphthalate	85-68-7	μg/kg	28	c	2.10E+00	_c	**
600-233_Shallow_Focused		Cadmium	7440-43-9	μg/kg	280	500	2.10E+00	238	Yes
600-233_Shallow_Focused	_	Chromium	7440-47-3	μg/kg	7,900	d	2.10E+00	_d	res
600-233 Shallow Focused		Chrysene	218-01-9	μg/kg	340	c	2.10E+00	_c	
600-233_Shallow_Focused		Cobalt	7440-48-4	μg/kg	6,300	c	2.10E+00	_c	
600-233_Shallow_Focused	non-Rad		7440-50-8	μg/kg	11,500	93,717	2.10E+00	44,627	No
600-233_Shallow_Focused		Dibenz[a,h]anthracene	53-70-3	µg/kg	61	c	2.10E+00	C	
600-233_Shallow_Focused		Di-n-butylphthalate	84-74-2	μg/kg	68	_c	2.10E+00	_c	(Freder
600-233_Shallow_Focused		Fluoranthene	206-44-0	μg/kg	690	_c	2.10E+00	_ c	Tarak
600-233_Shallow_Focused		Indeno(1,2,3-cd)pyrene	193-39-5	μg/kg	110	c	2.10E+00	c	

Table 7-2. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group		CAS No.	Units	Exposure Point Concentration (µg/kg or pCi/g)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection ^a $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Is EPC > Soil Screening Level Protective of Surface Water?
600-233_Shallow_Focused	non-Rad	Lead	7439-92-1	μg/kg	4,900	d	2.10E+00	d	
600-233_Shallow_Focused	non-Rad	Manganese	7439-96-5	μg/kg	270,000	c	2.10E+00	_c	
600-233_Shallow_Focused	non-Rad	Nickel	7440-02-0	μg/kg	8,300	3.89E+08	2.10E+00	1.85E+08	No
600-233_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	510	c	2.10E+00	_c	
600-233_Shallow_Focused	non-Rad	Selenium	7782-49-2	μg/kg	3,000	1,000	2.10E+00	476	Yes
600-233_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	37,000	c	2.10E+00	_c	
600-233_Shallow_Focused	non-Rad	Zinc	7440-66-6	μg/kg	33,800	3.89E+08	2.10E+00	1.85E+08	No

Notes:

- a. ECF-HANFORD-15-0129. A 70:30 source distribution is used for analytes with Kd < 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. These soil screening levels protective of groundwater and protective of surface water are provided on a unit-length basis. To apply these soil screening levels, divide the listed value by a representative length across the waste site decision unit in the general direction of groundwater flow to obtain the soil screening level for evaluation use. (Note that this scaling is not applicable to soil cleanup levels for arsenic, hexavalent chromium, or TPH-diesel.)
- b. ECF-100-BC5-15-0119, Determination of Representative Lineal Dimensions for 1000BC Operable Unit Waste Site Decision Units for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations.
- c. A soil screening level is not calculated because a surface water quality standard is not available for the analyte.
- d. The calculated soil screening level for the analyte is considered non-representative because: (1) breakthrough is simulated within 1,000 years for some soil columns while other soil columns (a majority) show no breakthrough defined as concentrations exceeding 1E-04 µg
- e. The soil screening level for hexavalent chromium is set to 6,000 µg/kg based on the evaluation in ECF-Hanford-11-0165; this value is not dependent on waste site size.
- f. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC.
- g. Uranium isotopes are accounted for by converting from activity-based (pCi/g) to mass-based (µg/kg) concentrations and summing to provide a mass-based total uranium exposure point concentration (identified as Total_U_Isotopes), as described in ECF-100BC1-11-0012, Computation of Exposure Point Concentrations for the 100-BC-1 and 100-BC-2 Source Operable Units.
- -- = Not applicable or no value

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximu
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,400	20,000	No	27,700	No
100-B-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	92,800	132,000	No	480,000	No
100-B-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	72	563	No	2,980	No
100-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,900	18,500	No	320,000	No
100-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,800	10,200	No	74,100	No
100-B-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.13	1.1	No	1.6	No
100-B-11_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.44E+06	1.18E+07	No	2.88E+07	No
100-B-11_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,400	130	Yes	385	Yes
100-B-11_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,900	20,000	No	27,700	No
100-B-11_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,400	132,000	No	480,000	No
100-B-11_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	82	1,510	No	10,000	No
100-B-11_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,700	3,890	Yes	5,860	No
100-B-11_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	224	563	No	2,980	No
100-B-11_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,600	18,500	No	320,000	No
100-B-11_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,100	15,700	No	110,000	No
100-B-11_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,500	22,000	No	61,000	No
100-B-11_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	3.26E+07	No	6.81E+07	No
100-B-11_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	16,600	10,200	Yes	74,100	No
100-B-11_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318,000	512,000	No	1.11E+06	No
100-B-11_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes	29	No
100-B-11_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	551	470	Yes	3,170	No
100-B-11_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,200	19,100	No	200,000	No
100-B-11_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,000	85,100	No	140,000	No
100-8-11_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	65,000	67,800	No	366,000	No
100-B-11_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	0.18	Yes	0.37	No
100-B-14:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.23	1.1	No	1.6	No
100-B-14:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	1.1	No	1.6	No
100-B-14:2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.93E+06	1.18E+07	No	2.88E+07	No
100-B-14:2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,350	20,000	No	27,700	No
100-B-14:2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	256,706	132,000	Yes	480,000	No
100-B-14:2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	378	1,510	No	10,000	No
100-B-14:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,700	3,890	No	5,860	No
100-B-14:2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	135	563	No	2,980	No
100-B-14:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,821	18,500	No	320,000	No
100-B-14:2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,306	15,700	No	110,000	No
100-B-14:2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	17,751	22,000	No	61,000	No
100-B-14:2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.26E+07	No	6.81E+07	No
100-B-14:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	5,727	10,200	No	74,100	No
100-B-14:2_Shallow_1	non-Rad	Lithium	7439-93-2	ug/kg	7,236	13,300	No	19,200	No
100-B-14:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	348,187	512,000	No	1.11E+06	No
100-B-14:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	36	13	Yes	29	Yes
100-B-14:2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	685	470	Yes	3,170	No
100-B-14:2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,448	19,100	No	200,000	No
100-B-14:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	48,661	85,100	No	140,000	No
100-B-14:2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	44,656	67,800	No	366,000	No
100-B-14:2_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.31	0.18	Yes	0.37	No
100-B-14:2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.99E+06	1.18E+07	No	2.88E+07	No
100-B-14:2_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	640	130	Yes	385	Yes
100-B-14:2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,093	20,000	No	27,700	No
100-B-14:2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	74,830	132,000	No	480,000	No
100-B-14:2 Shallow 2	non-Rad	Beryllium	7440-41-7	ug/kg	508	1,510	No	10,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site I	Background Values
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	Analyte				Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-14:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	3,600	3,890	No	5,860	No
100-B-14:2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	202	563	No	2,980	No
100-B-14:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,992	18,500	No	320,000	No
100-B-14:2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,290	15,700	No	110,000	No
100-B-14:2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	23,864	22,000	Yes	61,000	No
100-B-14:2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.09E+07	3.26E+07	No	6.81E+07	No
100-B-14:2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	35,014	10,200	Yes	74,100	No
100-B-14:2_Shallow_2	non-Rad	Lithium	7439-93-2	ug/kg	6,800	13,300	No	19,200	No
100-B-14:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	341,978	512,000	No	1.11E+06	No
100-B-14:2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	118	13	Yes	29	Yes
100-B-14:2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	794	470	Yes	3,170	No
100-B-14:2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	15,473	19,100	No	200,000	No
100-B-14:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	46,320	85,100	No	140,000	No
100-B-14:2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	85,443	67,800	Yes	366,000	No
100-B-14:2 Shallow 3	non-Rad	Aluminum	7429-90-5	ug/kg	5.60E+06	1.18E+07	No	2.88E+07	No
100-B-14:2 Shallow 3	non-Rad	Arsenic	7440-38-2	ug/kg	3,983	20,000	No	27,700	No
100-B-14:2 Shallow 3	non-Rad	Barium	7440-39-3	ug/kg	59,842	132,000	No	480,000	No
100-B-14:2 Shallow 3	non-Rad	Beryllium	7440-41-7	ug/kg	333	1,510	No	10,000	No
100-B-14:2 Shallow 3	non-Rad	Boron	7440-42-8	ug/kg	1,511	3,890	No	5,860	No
100-B-14:2 Shallow 3	non-Rad	Cadmium	7440-43-9	ug/kg	155	563	No	2,980	No
100-B-14:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7,841	18,500	No	320,000	No
100-B-14:2 Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,889	15,700	No	110,000	No
100-B-14:2 Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	17,742	22,000	No	61,000	No
100-B-14:2_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	3.26E+07	No	6.81E+07	No
100-B-14:2 Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	6,871	10,200	No	74,100	No
100-B-14:2 Shallow 3	non-Rad	Lithium	7439-93-2	ug/kg	7,759	13,300	No	19,200	No
100-B-14:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	335,398	512,000	No	1.11E+06	No
100-B-14:2 Shallow 3	non-Rad	Mercury	7439-97-6	ug/kg	28	13	Yes	29	No
100-B-14:2_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	522	470	Yes	3,170	No
100-B-14:2 Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	11,050	19,100	No	200,000	No
100-B-14:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	44,271	85,100	No	140,000	No
100-B-14:2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	39,869	67,800	No	366,000	No
100-B-14:2_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.077	1.1	No	1.6	No
100-B-14:2 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.35E+06	1.18E+07	No	2.88E+07	No
100-B-14:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,100	20,000	No	27,700	No
100-B-14:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	73,100	132,000	No	480,000	No
100-B-14:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	812	1,510	No	10,000	No
100-B-14:2 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	3,000	3,890	No	5,860	No
100-B-14:2 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	241	563	No	2,980	No
100-B-14:2 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,400	18,500	No	320,000	No
100-B-14:2 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	15,700	No	110,000	No
100-B-14:2 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	16,500	22,000	No	61,000	No
100-B-14:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.26E+07	No	6.81E+07	No
100-B-14:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	10,200	No	74,100	No
100-B-14:2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	6,400	13,300	No	19,200	No
100-B-14:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	347,000	512,000	No	1.11E+06	No
100-B-14:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	44	13	Yes	29	Yes
100-B-14:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,500	19,100	No	200,000	No
100-B-14:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	47,800	85,100	No	140,000	No
100-B-14:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,800	67,800	No	366,000	No
100-B-14:3_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.19E+06	1.18E+07	No	2.88E+07	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source C	U to Hanford Site Background Values
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	Analyte	Table 7-3. Comparison of EPCs for Waste S			Exposure Point		Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-14:3 Deep Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,400	20,000	No	27,700	No
100-B-14:3 Deep Focused	non-Rad	Barium	7440-39-3	ug/kg	59,800	132,000	No	480,000	No
100-B-14:3_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	311	1,510	No	10,000	No
100-B-14:3 Deep Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No	5,860	No
100-B-14:3 Deep Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,600	18,500	No	320,000	No
100-B-14:3 Deep Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	15,700	No	110,000	No
100-B-14:3_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No	61,000	No
100-B-14:3 Deep Focused	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.26E+07	No	6.81E+07	No
100-B-14:3 Deep Focused	non-Rad	Lead	7439-92-1	ug/kg	3,900	10,200	No	74,100	No
100-B-14:3 Deep Focused	non-Rad	Manganese	7439-96-5	ug/kg	355,000	512,000	No	1.11E+06	No
100-B-14:3_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	528	470	Yes	3,170	No
100-B-14:3 Deep Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,500	19,100	No	200,000	No
100-B-14:3 Deep Focused	non-Rad	Silver	7440-22-4	ug/kg	164	167	No	273	No
100-B-14:3 Deep Focused	non-Rad	Vanadium	7440-62-2	ug/kg	64,400	85,100	No	140,000	No
100-B-14:3 Deep Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,900	67,800	No	366,000	No
100-B-14:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.57E+06	1.18E+07	No	2.88E+07	No
100-B-14:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	310	130	Yes	385	No
100-B-14:5 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No	27,700	No
100-B-14:5 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	82,100	132,000	No	480,000	No
100-B-14:5 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	360	1,510	No	10,000	No
100-B-14:5 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	4,400	3,890	Yes	5,860	No
100-B-14:5 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	190	563	No	2,980	No
100-B-14:5 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,500	18,500	No	320,000	No
100-B-14:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	15,700	No	110,000	No
100-B-14:5 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	17,700	22,000	No	61,000	No
100-B-14:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.68E+07	3.26E+07	No	6.81E+07	No
100-B-14:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,300	10,200	No	74,100	No
100-B-14:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	395,000	512,000	No	1.11E+06	No
100-B-14:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	470	Yes	3,170	No
100-B-14:5 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,000	19,100	No	200,000	No
100-B-14:5 Shallow Focused	non-Rad	Silver	7440-22-4	ug/kg	90	167	No	273	No
100-B-14:5 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	69,400	85,100	No	140,000	No
100-B-14:5 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	76,200	67,800	Yes	366,000	No
100-B-14:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.26E+06	1.18E+07	No	2.88E+07	No
100-B-14:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,800	20,000	No	27,700	No
100-B-14:6 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	364,000	132,000	Yes	480,000	No
100-B-14:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	470	1,510	No	10,000	No
100-B-14:6 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	5,800	3,890	Yes	5,860	No
100-B-14:6 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	250	563	No	2,980	No
100-B-14:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	49,100	18,500	Yes	320,000	No
100-B-14:6 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,600	15,700	No	110,000	No
100-B-14:6 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	21,000	22,000	No	61,000	No
100-B-14:6 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.67E+07	3.26E+07	No	6.81E+07	No
100-B-14:6 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	10,200	Yes	74,100	No
100-B-14:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	446,000	512,000	No	1.11E+06	No
100-B-14:6 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,400	13	Yes	29	Yes
100-B-14:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	940	470	Yes	3,170	No
100-B-14:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	25,100	19,100	Yes	200,000	No
100-B-14:6_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	90	167	No	273	No
100-B-14:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,900	85,100	No	140,000	No
100-B-14:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	57,000	67,800	No	366,000	No

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?	Maximum Background Value	Is EPC > Maximum Background?
100-B-14:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.14E+07	1.18E+07	No	2.88E+07	No
100-B-14:7 Shallow Focused	non-Rad	Antimony	7440-36-0	ug/kg	410	130	Yes	385	Yes
100-B-14:7 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,200	20,000	No	27,700	No
100-B-14:7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	128,000	132,000	No	480,000	No
100-B-14:7 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	430	1,510	No	10,000	No
100-8-14:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,400	3,890	Yes	5,860	No
100-B-14:7 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	500	563	No	2,980	No
100-B-14:7 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	25,400	18,500	Yes	320,000	No
100-B-14:7 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,600	15,700	No	110,000	No
100-B-14:7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	21,300	22,000	No	61,000	No
100-B-14:7 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.52E+07	3.26E+07	No	6.81E+07	No
100-B-14:7 Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,100	10,200	Yes	74,100	No
100-B-14:7 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	408,000	512,000	No	1.11E+06	No
100-B-14:7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	13	Yes	29	Yes
100-B-14:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	760	470	Yes	3,170	No
100-B-14:7 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	22,700	19,100	Yes	200,000	No
100-B-14:7 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,500	85,100	No	140,000	No
100-B-14:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,400	67,800	Yes	366,000	No
100-B-16_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No	27,700	No
100-B-16_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	226,000	132,000	Yes	480.000	No
100-B-16 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	360	563	No	2,980	No
100-B-16_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,400	18,500	No	320,000	No
100-B-16_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,700	10,200	No	74,100	No
100-B-16_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes	29	Yes
100-B-16 Shallow Focused	non-Rad	Silver	7440-22-4	ug/kg	1,500	167	Yes	273	Yes
	non-Rad	Aluminum	7429-90-5	ug/kg	1.12E+07	1.18E+07	No	2.88E+07	No
100-B-18_Shallow_Focused 100-B-18_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	9,300	130	Yes	385	Yes
	_		7440-38-2				+		No
100-B-18_Shallow_Focused	non-Rad	Arsenic Barium	7440-39-3	ug/kg	3,000 1.30E+06	20,000 132,000	No Yes	27,700 480,000	Yes
100-B-18_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	640		No		No
100-B-18_Shallow_Focused	non-Rad	Boron		ug/kg		1,510		10,000	
100-B-18_Shailow_Focused	\rightarrow		7440-42-8	ug/kg	34,200	3,890	Yes	5,860	Yes
100-B-18_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	13,200	563	Yes	2,980	Yes
100-B-18_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,300	18,500	No	320,000	No
100-B-18_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	15,700	No	110,000	No
100-B-18_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,900	22,000	No	61,000	No
100-B-18_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.26E+07	No	6.81E+07	No
100-B-18_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	25,300	10,200	Yes	74,100	No
100-B-18_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	356,000	512,000	No	1.11E+06	No
100-B-18_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2,200	13	Yes	29	Yes
100-B-18_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	960	470	Yes	3,170	No
100-B-18_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,100	19,100	No	200,000	No
100-B-18_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	730	780	No	840	No
100-B-18_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,500	85,100	No	140,000	No
100-B-18_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	77,600	67,800	Yes	366,000	No
100-B-19_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.90E+06	1.18E+07	No	2.88E+07	No
100-B-19_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	970	130	Yes	385	Yes
100-B-19_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,658	20,000	No	27,700	No
100-B-19_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	57,930	132,000	No	480,000	No
100-B-19_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	735	1,510	No	10,000	No
100-B-19_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No	5,860	No
100-B-19_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	38,860	18,500	Yes	320,000	No

	Analyte	Table 7-3. Comparison of EPCs for Waste S			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-19_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,267	15,700	No	110,000	No
100-B-19_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	17,878	22,000	No	61,000	No
100-B-19 Shallow 1	non-Rad	Iron	7439-89-6	ug/kg	2.37E+07	3.26E+07	No	6.81E+07	No
100-B-19 Shallow 1	non-Rad	Lead	7439-92-1	ug/kg	25,097	10,200	Yes	74,100	No
100-B-19 Shallow 1	non-Rad	Manganese	7439-96-5	ug/kg	341,162	512,000	No	1.11E+06	No
100-B-19 Shallow 1	non-Rad	Mercury	7439-97-6	ug/kg	60	13	Yes	29	Yes
100-B-19_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,467	19,100	No	200,000	No
100-B-19 Shailow 1	non-Rad	Vanadium	7440-62-2	ug/kg	58,736	85,100	No	140,000	No
100-B-19 Shallow 1	non-Rad	Zinc	7440-66-6	ug/kg	42,877	67,800	No	366,000	No
100-B-19_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.93E+06	1.18E+07	No	2.88E+07	No
100-B-19 Shallow 2	non-Rad	Antimony	7440-36-0	ug/kg	1,194	130	Yes	385	Yes
100-B-19 Shallow 2	non-Rad	Arsenic	7440-38-2	ug/kg	3,880	20,000	No	27,700	No
100-B-19 Shallow 2	non-Rad	Barium	7440-39-3	ug/kg	97,962	132,000	No	480,000	No
100-B-19 Shallow 2	non-Rad	Beryllium	7440-41-7	ug/kg	313	1,510	No	10,000	No
100-B-19_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,381	3,890	No	5,860	No
100-B-19 Shallow 2	non-Rad	Cadmium	7440-43-9	ug/kg	170	563	No	2,980	No
100-B-19 Shallow 2	non-Rad	Chromium	7440-47-3	ug/kg	13,790	18,500	No	320,000	No
100-B-19 Shallow 2	non-Rad	Cobalt	7440-48-4	ug/kg	7,998	15,700	No	110,000	No
100-B-19 Shallow 2	non-Rad	Copper	7440-50-8	ug/kg	16,093	22,000	No	61,000	No
100-B-19_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	3.26E+07	No	6.81E+07	No
100-B-19 Shallow 2	non-Rad	Lead	7439-92-1	ug/kg	6,415	10,200	No	74,100	No
100-B-19 Shallow 2	non-Rad	Manganese	7439-96-5	ug/kg	414,775	512,000	No	1.11E+06	No
100-B-19 Shallow 2	non-Rad	Mercury	7439-97-6	ug/kg	24	13	Yes	29	No
100-B-19 Shallow 2	non-Rad	Molybdenum	7439-98-7	ug/kg	649	470	Yes	3,170	No
100-B-19 Shallow 2	non-Rad	Nickel	7440-02-0	ug/kg	12,360	19,100	No	200,000	No
100-B-19 Shallow 2	non-Rad	Selenium	7782-49-2	ug/kg	1,280	780	Yes	840	Yes
100-B-19 Shallow 2	non-Rad	Vanadium	7440-62-2	ug/kg	53,696	85,100	No	140,000	No
100-B-19_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	47,802	67,800	No	366,000	No
100-B-19 Shallow 4	non-Rad	Aluminum	7429-90-5	ug/kg	7.24E+06	1.18E+07	No	2.88E+07	No
100-B-19 Shallow 4	non-Rad	Arsenic	7440-38-2	ug/kg	4,048	20,000	No	27,700	No
100-B-19 Shallow 4	non-Rad	Barium	7440-39-3	ug/kg	65,972	132,000	No	480,000	No
100-B-19 Shallow 4	non-Rad	Beryllium	7440-41-7	ug/kg	452	1,510	No	10,000	No
100-B-19 Shallow 4	non-Rad	Boron	7440-42-8	ug/kg	2,400	3,890	No	5,860	No
100-B-19_Shallow_4	non-Rad	Cadmium	7440-43-9		122	563	No	2,980	No
100-8-19 Shallow 4	non-Rad	Chromium	7440-47-3	ug/kg ug/kg	11,506	18,500	No	320,000	No
100-B-19_Shallow_4	non-Rad	Cobalt	7440-48-4		6,930	15,700	No	110,000	No
100-B-19_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg ug/kg	17,321	22,000	No	61,000	No
100-B-19 Shallow 4	non-Rad	Iron	7439-89-6	ug/kg	1.97E+07	3.26E+07	No	6.81E+07	No
100-B-19 Shallow 4	non-Rad	Lead	7439-92-1	ug/kg	9,612	10,200	No	74,100	No
100-B-19_Shallow_4	non-Rad	Manganese	7439-96-5		316,396	512,000	No	1.11E+06	No
	non-Rad		7439-97-6	ug/kg	15	13	Yes	29	
100-B-19 Shallow 4	non-Rad	Mercury Molybdenum	7439-98-7	ug/kg	359	470	No	3,170	No No
100-B-19_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	12,262	19,100	No	200,000	No
100-B-19_Shallow_4	non-Rad	Vanadium	7440-02-0	ug/kg	44,697	85,100	No	140,000	No
100-B-19 Shallow 4	non-Rad	Vanadium Zinc	7440-62-2	ug/kg	41,817	67,800	No	366,000	No
100-B-19_Shallow_4	non-Rad	Aluminum		ug/kg	7,69E+06	1.18E+07	No	2.88E+07	No
100-B-19_Shallow_5	non-Rad	Arsenic	7429-90-5 7440-38-2	ug/kg	3,076	20,000	No		No
100-B-19_Shallow_5				ug/kg				27,700	
100-B-19_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	70,260	132,000	No	480,000	No
100-8-19_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	818	1,510	No	10,000	No
100-B-19_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	2,769	3,890	No	5,860	No
100-B-19_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	322	563	No	2,980	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-19 Shallow 5	non-Rad	Chromium	7440-47-3	ug/kg	10,988	18,500	No	320,000	No
100-B-19 Shallow 5	non-Rad	Cobalt	7440-48-4	ug/kg	9,504	15,700	No	110,000	No
100-B-19 Shallow 5	non-Rad	Copper	7440-50-8	ug/kg	17,154	22,000	No	61,000	No
100-B-19 Shallow 5	non-Rad	Iron	7439-89-6	ug/kg	2.60E+07	3.26E+07	No	6.81E+07	No
100-B-19_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	6,792	10,200	No	74,100	No
100-B-19 Shallow 5	non-Rad	Manganese	7439-96-5	ug/kg	388,836	512,000	No	1.11E+06	No
100-B-19 Shallow 5	non-Rad	Mercury	7439-97-6	ug/kg	6,100	13	Yes	29	Yes
100-B-19 Shallow 5	non-Rad	Molybdenum	7439-98-7	ug/kg	820	470	Yes	3,170	No
100-B-19 Shallow 5	non-Rad	Nickel	7440-02-0	ug/kg	12,222	19,100	No	200,000	No
100-B-19 Shallow 5	non-Rad	Vanadium	7440-62-2	ug/kg	66,151	85,100	No	140,000	No
100-B-19 Shallow 5	non-Rad	Zinc	7440-66-6	ug/kg	48,358	67,800	No	366,000	No
100-B-19 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	1.18E+07	No	2.88E+07	No
100-B-19 Shallow Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	130	Yes	385	Yes
100-B-19 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,100	20,000	No	27,700	No
100-B-19 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	173,000	132,000	Yes	480,000	No
100-B-19 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,200	1,510	No	10,000	No
100-B-19 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	3,500	3,890	No	5,860	No
100-B-19 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	370	563	No	2,980	No
100-B-19 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,600	18,500	No	320,000	No
100-B-19 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,000	15,700	No	110,000	No
100-B-19 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	22,800	22,000	Yes	61,000	No
100-B-19 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	3.96E+07	3.26E+07	Yes	6.81E+07	No
100-B-19 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	17,400	10,200	Yes	74,100	No
100-B-19 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	376,000	512,000	No	1.11E+06	No
100-B-19 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	17,100	13	Yes	29	Yes
100-B-19 Shallow Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	470	Yes	3,170	No
100-B-19 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	19,100	No	200,000	No
100-B-19 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	91,300	85,100	Yes	140,000	No
100-B-19 Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,200	67,800	No	366,000	No
100-B-20 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.50E+06	1.18E+07	No	2.88E+07	No
100-B-20 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	20,000	No	27,700	No
100-B-20 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	72,700	132,000	No	480,000	No
100-B-20 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	320	1,510	No	10,000	No
100-B-20 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	3,700	3,890	No	5,860	No
100-B-20 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,100	18,500	No	320,000	No
100-B-20_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,200	15,700	No	110,000	No
100-B-20_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	43,300	22,000	Yes	61,000	No
100-B-20 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.17E+07	3.26E+07	No	6.81E+07	No
100-B-20_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	20,900	10,200	Yes	74,100	No
100-B-20_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	354,000	512,000	No	1.11E+06	No
100-B-20_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	327	13	Yes	29	Yes
100-B-20_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	599	470	Yes	3,170	No
100-B-20_Shailow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,800	19,100	No	200,000	No
100-B-20_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg		780	No	840	No
100-B-20_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,900	85,100	No	140,000	No
100-B-20_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	326,000	67,800	Yes	366,000	No
100-B-21:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.07E+06	1.18E+07	No	2.88E+07	No
100-B-21:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,978	20,000	No	27,700	No
100-B-21:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,995	132,000	No	480,000	No
100-B-21:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	190	1,510	No	10,000	No
100-B-21:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,390	3,890	No	5,860	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-21:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	310	563	No	2,980	No
100-B-21:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	15,640	18,500	No	320,000	No
100-B-21:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,955	15,700	No	110,000	No
100-B-21:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,744	22,000	No	61,000	No
100-B-21:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.37E+07	3.26E+07	No	6.81E+07	No
100-B-21:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,454	10,200	No	74,100	No
100-B-21:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	359,421	512,000	No	1.11E+06	No
100-B-21:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,390	470	Yes	3,170	No
100-B-21:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	16,027	19,100	No	200,000	No
100-B-21:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	390	167	Yes	273	Yes
100-B-21:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,852	85,100	No	140,000	No
100-B-21:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,836	67,800	No	366,000	No
100-B-21:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.075	1.1	No	1.6	No
100-B-21:3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.91E+06	1.18E+07	No	2.88E+07	No
100-B-21:3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	369	130	Yes	385	No
100-B-21:3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,247	20,000	No	27,700	No
100-B-21:3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,083	132,000	No	480,000	No
100-B-21:3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	341	1,510	No	10,000	No
100-B-21:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,104	3,890	No	5,860	No
100-B-21:3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	75	563	No	2,980	No
100-B-21:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,795	18,500	No	320,000	No
100-B-21:3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,788	15,700	No	110,000	No
100-B-21:3 Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,573	22,000	No	61,000	No
100-B-21:3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	3.26E+07	No	6.81E+07	No
100-B-21:3 Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,049	10,200	No	74,100	No
100-B-21:3 Shallow	non-Rad	Manganese	7439-96-5	ug/kg	388,389	512,000	No	1.11E+06	No
100-B-21:3 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
100-B-21:3 Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	379	470	No	3,170	No
100-B-21:3 Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,176	19,100	No	200,000	No
100-B-21:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	66,201	85,100	No	140,000	No
100-B-21:3 Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,545	67,800	No	366,000	No
100-B-21:3 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.096	1.1	No	1.6	No
100-B-21:4 Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.62E+06	1.18E+07	No	2.88E+07	No
100-B-21:4 Shallow	non-Rad	Antimony	7440-36-0	ug/kg	866	130	Yes	385	Yes
100-B-21:4 Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,557	20,000	No	27,700	No
100-B-21:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,635	132,000	No	480,000	No
100-B-21:4 Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	286	1,510	No	10,000	No
100-B-21:4 Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,191	3,890	No	5,860	No
100-B-21:4 Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	120	563	No	2,980	No
100-B-21:4 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	32,036	18,500	Yes	320,000	No
100-B-21:4 Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,438	15,700	No	110,000	No
100-B-21:4 Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,168	22,000	No	61,000	No
100-B-21:4 Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.58E+07	3.26E+07	No	6.81E+07	No
100-B-21:4 Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,140	10,200	No	74,100	No
100-B-21:4 Shallow	non-Rad	Manganese	7439-96-5	ug/kg	363,889	512,000	No	1.11E+06	No
100-B-21:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	47	13	Yes	29	Yes
100-B-21:4 Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	494	470	Yes	3,170	No
100-B-21:4 Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,084	19,100	No	200,000	No
100-B-21:4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	780	Yes	840	Yes
100-B-21:4_Shallow	non-Rad	Total U Isotopes	Total U Isotopes	ug/kg	1,703	3,210	No	4,042	No
100-B-21:4 Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68,392	85,100	No	140,000	No

	Analyte		ecision Units in the 100-		Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	nd? Background Value 366,000 1.6 0.039 0.033 0.37 1.5 1.2 2.88E+07 385 27,700 480,000 10,000 5,860 2,980 320,000 110,000 68.1E+07 74,100 1.11E+06 29 3,170 200,000 906,000 2.88E+07 385 27,700 480,000 10,000 5,860 2,980 3,170 200,000 906,000 273 140,000 366,000 2.88E+07 385 27,700 480,000 10,000 5,860 2,980 320,000 110,000 6.81E+07 74,100 1.11E+06 2.99 3,170 2.00,000 906,000 2.88E+07 385 27,700 480,000 10,000 6.81E+07 74,100 19,200 1.11E+06 2.99 3,170 2.00,000 6.81E+07 74,100 19,200 1.11E+06 2.99 3,170 200,000 840	Background?
LOO-B-21:4 Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,652	67,800	No	366,000	No
100-B-21:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	45	1.1	Yes	1.6	Yes
100-B-21:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	0.0084	Yes	0.039	Yes
100-B-21:4 Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.049	0.025	Yes	0.033	Yes
100-B-21:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	0.18	Yes	0.37	Yes
100-B-21:4 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	1.1	No	1.5	No
100-B-21:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No	1.2	No
100-B-22:2 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.19E+07	1.18E+07	Yes	2.88E+07	No
100-B-22:2 Shallow Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,080	130	Yes	385	Yes
100-B-22:2 Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,450	20,000	No	27,700	No
100-B-22:2 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	110,000	132,000	No	480,000	No
100-B-22:2 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	1,510	Yes	10,000	No
100-B-22:2 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	9,230	3,890	Yes	5,860	Yes
100-B-22:2 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,020	563	Yes	2,980	No
100-B-22:2 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	24,800	18,500	Yes	320,000	No
100-B-22:2 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	13,000	15,700	No	110,000	No
100-B-22:2 Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	66,700	22,000	Yes	61,000	Yes
100-B-22:2 Shallow Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,600	2,810	No	73,300	No
100-B-22:2 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	4.43E+07	3.26E+07	Yes	6.81E+07	No
100-B-22:2 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	125,000	10,200	Yes	74,100	Yes
100-B-22:2 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	479,000	512,000	No	1.11E+06	No
100-B-22:2 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	319	13	Yes	29	Yes
100-B-22:2 Shallow Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	2,000	470	Yes	3,170	No
100-B-22:2 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	21,300	19,100	Yes	200,000	No
100-B-22:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	16,400	52,000	No	906,000	No
100-B-22:2 Shallow Focused	non-Rad	Silver	7440-22-4	ug/kg	1,960	167	Yes	273	Yes
100-B-22:2 Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,600	85,100	No	140,000	No
100-B-22:2 Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	176,000	67,800	Yes	366,000	No
100-B-23_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.95E+06	1.18E+07	No	2.88E+07	No
100-B-23 Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	270	130	Yes	385	No
100-B-23 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,400	20,000	No	27,700	No
100-B-23 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	118,000	132,000	No	480,000	No
100-B-23 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	450	1,510	No	10,000	No
100-B-23 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	14,100	3,890	Yes	5,860	Yes
100-B-23 Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,700	563	Yes	2,980	No
100-B-23_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	14,000	18,500	No	320,000	No
100-B-23 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,700	15,700	No	110,000	No
100-B-23 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	21,600	22,000	No	61,000	No
100-B-23 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	3.26E+07	No	6.81E+07	No
100-B-23 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	73,800	10,200	Yes	74,100	No
100-B-23 Shallow Focused	non-Rad	Lithium	7439-93-2	ug/kg	8,600	13,300	No	19,200	No
100-B-23 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	352,000	512,000	No	1.11E+06	No
100-B-23 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	8,200	13	Yes	29	Yes
100-B-23_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	710	470	Yes	3,170	No
100-B-23 Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,600	19,100	No	200,000	No
100-B-23 Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	570	780	No	840	No
100-B-23_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,900	85,100	No	140,000	No
100-B-23 Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	1.31E+06	67,800	Yes	366,000	Yes
100-B-25 Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.14E+06	1.18E+07	No	2.88E+07	No
100-B-25 Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,556	20,000	No	27,700	No
100-B-25 Shallow	non-Rad	Barium	7440-39-3	ug/kg	81,242	132,000	No	480,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to	Hanford Site Background Values
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	Analyte				Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-25_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	246	1,510	No	10,000	No
100-B-25_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,005	3,890	No	5,860	No
100-B-25_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	97	563	No	2,980	No
100-B-25_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	15,581	18,500	No	320,000	No
100-B-25_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,179	15,700	No	110,000	No
100-B-25_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,196	22,000	No	61,000	No
100-B-25_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	3.26E+07	No	6.81E+07	No
100-B-25_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,006	10,200	No	74,100	No
100-B-25_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281,444	512,000	No	1.11E+06	No
100-B-25_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	44	13	Yes	29	Yes
100-B-25_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	279	470	No	3,170	No
100-B-25_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	16,459	19,100	No	200,000	No
100-B-25_Shallow	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	2,156	3,210	No	4,042	No
100-B-25_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	37,033	85,100	No	140,000	No
100-B-25_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	35,105	67,800	No	366,000	No
100-B-25_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.55	1.1	No	1.6	No
100-B-25_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.40	0.18	Yes	0.37	Yes
100-B-25_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.78	1.1	No	1.5	No
100-B-25_Shallow	Rad	Uranium-238	U-238	pCi/g	0.72	1.1	No	1.2	No
100-B-26_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.16E+06	1.18E+07	No	2.88E+07	No
100-B-26_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,200	20,000	No	27,700	No
100-B-26_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84,700	132,000	No	480,000	No
100-B-26_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	441	1,510	No	10,000	No
100-B-26_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	3,890	No	5,860	No
100-B-26_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	501	563	No	2,980	No
100-B-26_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	39,300	18,500	Yes	320,000	No
100-B-26_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,400	15,700	No	110,000	No
100-B-26_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,200	22,000	No	61,000	No
100-B-26_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.79E+07	3.26E+07	No	6.81E+07	No
100-B-26_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	17,600	10,200	Yes	74,100	No
100-B-26_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	262,000	512,000	No	1.11E+06	No
100-B-26_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	13	Yes	29	No
100-B-26_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	206	470	No	3,170	No
100-B-26_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	16,500	19,100	No	200,000	No
100-B-26_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	513	780	No	840	No
100-B-26_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	3,513	3,210	Yes	4,042	No
100-B-26_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,700	85,100	No	140,000	No
100-B-26_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	108,000	67,800	Yes	366,000	No
100-B-26_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	3.1	1.1	Yes	1.6	Yes
100-B-26 Shallow Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.4	1.1	Yes	1.5	No
100-8-26_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	1.1	Yes	1.2	No
100-B-27_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	1.23E+07	1.18E+07	Yes	2.88E+07	No
100-B-27_Deep	non-Rad	Antimony	7440-36-0	ug/kg	464	130	Yes	385	Yes
100-B-27_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	4,466	20,000	No	27,700	No
100-B-27_Deep	non-Rad	Barium	7440-39-3	ug/kg	149,745	132,000	Yes	480,000	No
100-B-27_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	436	1,510	No	10,000	No
100-B-27_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,099	3,890	No	5,860	No
100-B-27_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	102	563	No	2,980	No
100-B-27_Deep	non-Rad	Chromium	7440-47-3	ug/kg	13,667	18,500	No	320,000	No
100-B-27_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	14,425	15,700	No	110,000	No
100-B-27_Deep	non-Rad	Copper	7440-50-8	ug/kg	28,589	22,000	Yes	61,000	No

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	is EPC > Background?	Maximum Background Value	is EPC > Maximun Background?
100-B-27 Deep	non-Rad	Iron	7439-89-6	ug/kg	3.61E+07	3.26E+07	Yes	6.81E+07	No
100-B-27_Deep	non-Rad	Lead	7439-92-1	ug/kg	7,359	10,200	No	74,100	No
100-B-27 Deep	non-Rad	Manganese	7439-96-5	ug/kg	525,815	512,000	Yes	1.11E+06	No
100-B-27 Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	471	470	Yes	3,170	No
100-B-27 Deep	non-Rad	Nickel	7440-02-0	ug/kg	15,089	19,100	No	200,000	No
100-B-27_Deep	non-Rad	Silver	7440-22-4	ug/kg	208	167	Yes	273	No
100-B-27 Deep	non-Rad	Vanadium	7440-62-2	ug/kg	86,865	85,100	Yes	140,000	No
100-B-27 Deep	non-Rad	Zinc	7440-66-6	ug/kg	69,869	67,800	Yes	366,000	No
100-B-28 Shallow 1	non-Rad	Aluminum	7429-90-5	ug/kg	8.52E+06	1.18E+07	No	2.88E+07	No
100-B-28 Shallow 1	non-Rad	Arsenic	7440-38-2	ug/kg	4,446	20,000	No	27,700	No
100-B-28_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	99,189	132,000	No	480,000	No
100-B-28 Shallow 1	non-Rad	Beryllium	7440-41-7	ug/kg	358	1,510	No	10,000	No
100-B-28 Shallow 1	non-Rad	Boron	7440-42-8	ug/kg	5,012	3,890	Yes	5,860	No
100-B-28 Shallow 1	non-Rad	Cadmium	7440-43-9	ug/kg	405	563	No	2,980	No
100-B-28 Shallow 1	non-Rad	Chromium	7440-47-3	ug/kg	11,645	18,500	No	320,000	No
100-B-28 Shallow 1	non-Rad	Cobalt	7440-48-4	ug/kg	10,094	15,700	No	110,000	No
100-B-28 Shallow 1	non-Rad	Copper	7440-50-8	ug/kg	21,585	22,000	No	61,000	No
100-B-28 Shallow 1	non-Rad	Iron	7439-89-6	ug/kg	2.68E+07	3.26E+07	No	6.81E+07	No
100-B-28 Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	8,333	10,200	No	74,100	No
100-B-28_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	401,359	512,000	No	1.11E+06	No
100-B-28_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	76	13	Yes	29	Yes
100-B-28 Shallow 1	non-Rad	Molybdenum	7439-98-7	ug/kg	521	470	Yes	3,170	No
100-B-28 Shallow 1	non-Rad	Nickel	7440-02-0	ug/kg	13,397	19,100	No	200,000	No
100-B-28 Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	64,955	85,100	No	140,000	No
100-B-28 Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	65,498	67,800	No	366,000	No
100-B-28 Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	1.06E+07	1.18E+07	No	2.88E+07	No
100-B-28_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	4,728	20,000	No	27,700	No
100-B-28_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
100-B-28_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	357	1,510	No	10,000	No
100-B-28_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg		3,890	No	5,860	No
100-B-28_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg		563	No	2,980	No
100-B-28_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
100-B-28_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	11,408	15,700	No	110,000	No
100-B-28_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg		22,000	No	61,000	No
100-B-28_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg		3.26E+07	No	6.81E+07	No
100-B-28_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg		10,200	No	74,100	No
100-B-28_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	524,239	512,000	Yes	1.11E+06	No
100-B-28_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes
100-B-28_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg		470	No	3,170	No
100-B-28_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg		19,100	No	200,000	No
100-B-28_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64,702	85,100	No	140,000	No
100-B-28_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg		67,800	Yes	366,000	Yes
100-B-28_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg		1.18E+07	No	2.88E+07	No
100-B-28_Shallow_5	non-Rad	Antimony	7440-36-0	ug/kg		130	Yes	385	Yes
100-B-28_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
100-B-28_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	73,328	132,000	No	480,000	No
100-B-28_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg		1,510	No	10,000	No
100-B-28_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg		3,890	No	5,860	No
100-B-28_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg		563	No	2,980	No
100-B-28_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg		18,500	Yes	320,000	No
100-B-28 Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	9,470	15,700	No	110,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to	Hanford Site Background Values
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	Analyte	Table 7-3. Comparison of EPCs for Waste 5			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-28 Shallow 5	non-Rad	Copper	7440-50-8	ug/kg	19,492	22,000	No	61,000	No
100-B-28 Shallow 5	non-Rad	Iron	7439-89-6	ug/kg	2.50E+07	3.26E+07	No	6.81E+07	No
100-B-28 Shallow 5	non-Rad	Lead	7439-92-1	ug/kg	12,508	10,200	Yes	74,100	No
100-B-28 Shallow 5	non-Rad	Manganese	7439-96-5	ug/kg	389,598	512,000	No	1.11E+06	No
100-B-28_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	77	13	Yes	29	Yes
100-B-28_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	775	470	Yes	3,170	No
100-B-28_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	14,338	19,100	No	200,000	No
100-B-28_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	58,291	85,100	No	140,000	No
100-B-28_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	51,942	67,800	No	366,000	No
100-B-28_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.85E+07	1.18E+07	Yes	2.88E+07	No
100-B-28_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	130	Yes	385	Yes
100-B-28_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,020	20,000	No	27,700	No
100-B-28_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	98,100	132,000	No	480,000	No
100-B-28_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	572	1,510	No	10,000	No
100-B-28_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,710	3,890	No	5,860	No
100-B-28_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	141	563	No	2,980	No
100-B-28_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	50,100	18,500	Yes	320,000	No
100-B-28_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,600	15,700	No	110,000	No
100-B-28_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	31,000	22,000	Yes	61,000	No
100-B-28 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	3.69E+07	3.26E+07	Yes	6.81E+07	No
100-B-28_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,700	10,200	Yes	74,100	No
100-B-28 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	494,000	512,000	No	1.11E+06	No
100-B-28 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	804	13	Yes	29	Yes
100-B-28 Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	566	470	Yes	3,170	No
100-B-28 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	17,200	19,100	No	200,000	No
100-B-28_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	106,000	85,100	Yes	140,000	No
100-B-28_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	81,700	67,800	Yes	366,000	No
100-B-31 Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.24E+06	1.18E+07	No	2.88E+07	No
100-B-31_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,096	130	Yes	385	Yes
100-B-31_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,007	20,000	No	27,700	No
100-B-31_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,123	132,000	No	480,000	No
100-B-31_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	263	1,510	No	10,000	No
100-B-31_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,934	3,890	No	5,860	No
100-B-31_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	159	563	No	2,980	No
100-B-31_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,815	18,500	No	320,000	No
100-B-31_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,635	15,700	No	110,000	No
100-B-31_Shallow	non-Rad	Copper	7440-50-8	ug/kg	30,009	22,000	Yes	61,000	No
100-B-31_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.37E+07	3.26E+07	No	6.81E+07	No
100-B-31_Shallow	non-Rad	Lead	7439-92-1	ug/kg	78,974	10,200	Yes	74,100	Yes
100-B-31_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	376,677	512,000	No	1.11E+06	No
100-B-31_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	112	13	Yes	29	Yes
100-B-31_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	4,483	470	Yes	3,170	Yes
100-B-31_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,098	19,100	No	200,000	No
100-B-31_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	856	780	Yes	840	Yes
100-B-31_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,070	85,100	No	140,000	No
100-B-31_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,292	67,800	No	366,000	No
100-B-32_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.52	1.1	No	1.6	No
100-B-33_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.07E+07	1.18E+07	No	2.88E+07	No
100-B-33_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,550	20,000	No	27,700	No
100-B-33_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	102,000	132,000	No	480,000	No
100-B-33_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	408	1,510	No	10,000	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-33_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,670	3,890	Yes	5,860	No
100-B-33_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	133	563	No	2,980	No
100-B-33_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,100	18,500	No	320,000	No
100-B-33_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,710	15,700	No	110,000	No
100-B-33_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,500	22,000	No	61,000	No
100-B-33_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.47E+07	3.26E+07	No	6.81E+07	No
100-B-33_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,870	10,200	No	74,100	No
100-B-33_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	409,000	512,000	No	1.11E+06	No
100-B-33_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	12	13	No	29	No
100-B-33_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,200	19,100	No	200,000	No
100-B-33_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	898	780	Yes	840	Yes
100-B-33_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,447	3,210	No	4,042	No
100-B-33_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,200	85,100	No	140,000	No
100-B-33 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,700	67,800	No	366,000	No
100-B-33_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.16	1.1	No	1.6	No
100-B-33_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No	1.5	No
100-B-33 Shallow Focused	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No	1.2	No
100-B-35:1 Deep Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.39E+07	1.18E+07	Yes	2.88E+07	No
100-B-35:1_Deep_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,300	130	Yes	385	Yes
100-B-35:1 Deep Focused	non-Rad	Arsenic	7440-38-2	ug/kg	9,600	20,000	No	27,700	No
100-B-35:1 Deep Focused	non-Rad	Barium	7440-39-3	ug/kg	81,600	132,000	No	480,000	No
100-B-35:1 Deep Focused	non-Rad	Beryllium	7440-41-7	ug/kg	280	1,510	No	10,000	No
100-B-35:1 Deep Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No	5,860	No
100-B-35:1 Deep Focused	non-Rad	Cadmium	7440-43-9	ug/kg	220	563	No	2,980	No
100-B-35:1 Deep Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,300	18,500	No	320,000	No
100-B-35:1 Deep Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,900	15,700	No	110,000	No
100-B-35:1 Deep Focused	non-Rad	Copper	7440-50-8	ug/kg	23,200	22,000	Yes	61,000	No
100-B-35:1 Deep Focused	non-Rad	Iron	7439-89-6	ug/kg	3.19E+07	3.26E+07	No	6.81E+07	No
100-B-35:1 Deep Focused	non-Rad	Lead	7439-92-1	ug/kg	12,200	10,200	Yes	74,100	No
100-B-35:1 Deep Focused	non-Rad	Manganese	7439-96-5	ug/kg	502,000	512,000	No	1.11E+06	No
100-B-35:1 Deep Focused	non-Rad	Nickel	7440-02-0	ug/kg	17,500	19,100	No	200,000	No
100-B-35:1_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	72,200	85,100	No	140,000	No
100-B-35:1_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59,900	67,800	No	366,000	No
100-B-35:1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.57E+06	1.18E+07	No	2.88E+07	No
100-B-35:1 Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,061	130	Yes	385	Yes
100-B-35:1 Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,148	20,000	No	27,700	No
100-B-35:1 Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,766	132.000	No	480,000	No
100-B-35:1 Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	126	1,510	No	10,000	No
100-B-35:1 Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,423	3,890	No	5,860	No
100-B-35:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	151	563	No	2,980	No
100-B-35:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,942	18,500	No	320,000	No
100-B-35:1 Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,325	15,700	No	110,000	No
100-B-35:1 Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,504	22,000	No	61,000	No
100-B-35:1 Shallow	non-Rad	iron	7439-89-6	ug/kg	2.49E+07	3.26E+07	No	6.81E+07	No
100-B-35:1 Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,650	10,200	No	74,100	No
100-B-35:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	368,864	512,000	No	1.11E+06	No
100-B-35:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	13	Yes	29	No
100-B-35:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	370	470	No	3,170	No
100-B-35:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,876	19,100	No	200,000	No
100-B-35:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	61,150	85,100	No	140,000	No
100-B-35:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg		67,800	No	366,000	No

	Analyte	Table 7-3. Comparison of EPCs for Waste Site			Exposure Point		is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-35:2 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.35E+06	1.18E+07	No	2.88E+07	No
100-B-35:2 Shallow Focused	non-Rad	Antimony	7440-36-0	ug/kg	3,570	130	Yes	385	Yes
100-B-35:2 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,620	20,000	No	27,700	No
100-B-35:2 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	51,600	132,000	No	480,000	No
100-B-35:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	318	1,510	No	10,000	No
100-B-35:2 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,500	18,500	No	320,000	No
100-B-35:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,460	15,700	No	110,000	No
100-B-35:2 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	21,800	22,000	No	61,000	No
100-B-35:2 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	1.58E+07	3.26E+07	No	6.81E+07	No
100-B-35:2 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	12,700	10,200	Yes	74,100	No
100-B-35:2 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	234,000	512,000	No	1.11E+06	No
100-B-35:2 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	9.3	13	No	29	No
100-B-35:2 Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,660	19,100	No	200,000	No
100-B-35:2 Shallow Focused	non-Rad	Silver	7440-22-4	ug/kg	569	167	Yes	273	Yes
100-B-35:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,400	85,100	No	140,000	No
100-B-35:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	158,000	67,800	Yes	366,000	No
100-B-5 Deep	non-Rad	Chromium	7440-47-3	ug/kg	297,000	18,500	Yes	320,000	No
100-8-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	8,200	10,200	No	74,100	No
100-B-5 Deep	non-Rad	Mercury	7439-97-6	ug/kg	5,040	13	Yes	29	Yes
100-B-5 Deep	non-Rad	Total U Isotopes	Total_U_Isotopes	ug/kg	2,230	3,210	No	4,042	No
100-B-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	1.1	Yes	1.6	Yes
100-B-5 Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.5	0.0084	Yes	0.039	Yes
100-B-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	0.033	Yes	0.079	Yes
100-B-5 Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.26	0.0038	Yes	0.019	Yes
100-B-5 Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	3.4	0.025	Yes	0.033	Yes
100-B-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.9	0.18	Yes	0.37	Yes
100-B-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.79	1.1	No	1.5	No
100-B-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.75	1.1	No	1.2	No
100-B-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,803	18,500	No	320,000	No
100-B-5 Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,958	10,200	No	74,100	No
100-B-5 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	13	Yes	29	No
100-B-5 Shallow	non-Rad	Total U Isotopes	Total_U_Isotopes	ug/kg	1,870	3,210	No	4,042	No
100-B-5 Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	0.025	Yes	0.033	Yes
100-B-5 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	1.1	No	1.5	No
100-B-5 Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.088	0.11	No	0.39	No
100-8-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No	1.2	No
100-B-8:1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,800	18,500	Yes	320,000	No
100-8-8:1 Deep	non-Rad	Lead	7439-92-1	ug/kg	7,764	10,200	No	74,100	No
100-8-8:1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	237	13	Yes	29	Yes
100-B-8:1_Deep	non-Rad	Total_U_isotopes	Total_U_Isotopes	ug/kg	1,774	3,210	No	4,042	No
100-B-8:1 Deep	Rad	Cesium-137	10045-97-3	pCi/g	9.6	1.1	Yes	1.6	Yes
100-B-8:1 Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.16	0.0084	Yes	0.039	Yes
100-B-8:1 Deep	Rad	Europium-154	15585-10-1	pCi/g	0.16	0.033	Yes	0.079	Yes
100-B-8:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.75	0.025	Yes	0.033	Yes
100-B-8:1 Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	0.18	Yes	0.37	Yes
100-B-8:1 Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.1	No	1.5	No
100-B-8:1 Deep	Rad	Uranium-238	U-238	pCi/g	0.60	1.1	No	1.2	No
100-B-8:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,055	18,500	No	320,000	No
100-B-8:1 Shallow	non-Rad	Lead	7439-92-1	ug/kg		10,200	Yes	74,100	No
100-B-8:1 Shallow	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes
100-B-8:1 Shallow	non-Rad	Total_U_Isotopes	Total U_Isotopes	ug/kg		3,210	No	4,042	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-B-8:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No	1.6	No
100-B-8:1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCI/g	0.069	0.025	Yes	0.033	Yes
100-B-8:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	0.18	Yes	0.37	No
100-B-8:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No	1.5	No
100-B-8:1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.037	0.11	No	0.39	No
100-B-8:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No	1.2	No
100-B-8:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	65,806	18,500	Yes	320,000	No
100-B-8:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,278	10,200	No	74,100	No
100-B-8:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	145	13	Yes	29	Yes
100-B-8:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,590	3,210	No	4,042	No
100-B-8:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	13	1.1	Yes	1.6	Yes
100-B-8:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.56	0.0084	Yes	0.039	Yes
100-B-8:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.99	0.033	Yes	0.079	Yes
100-B-8:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.76	0.025	Yes	0.033	Yes
100-B-8:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	0.18	Yes	0.37	Yes
100-B-8:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No	1.5	No
100-B-8:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.53	1.1	No	1.2	No
100-B-8:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	16,449	18,500	No	320,000	No
100-B-8:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	5,532	10,200	No	74,100	No
100-B-8:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	23	13	Yes	29	No
100-B-8:2_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,664	3,210	No	4,042	No
100-B-8:2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.62	1.1	No	1.6	No
100-B-8:2_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.095	0.0084	Yes	0.039	Yes
100-B-8:2_Shallow_1	Rad	Europium-154	15585-10-1	pCi/g	0.38	0.033	Yes	0.079	Yes
100-B-8:2_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.36	0.025	Yes	0.033	Yes
100-B-8:2_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	0.18	Yes	0.37	Yes
100-B-8:2_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No	1.5	No
100-B-8:2_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.56	1.1	No	1.2	No
100-B-8:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	15,897	18,500	No	320,000	No
100-B-8:2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,150	10,200	No	74,100	No
100-B-8:2_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,729	3,210	No	4,042	No
100-B-8:2_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.55	1.1	No	1.6	No
100-B-8:2_Shallow_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	0.18	Yes	0.37	Yes
100-B-8:2_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	1.1	No	1.5	No
100-B-8:2_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No	1.2	No No
100-C-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No	27,700	
100-C-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,500	132,000	No	480,000	No
100-C-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	278	563	No	2,980	No No
100-C-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,500	18,500	No	320,000	
100-C-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,000	10,200	No	74,100	No
100-C-3_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	487	780	No	840 273	No No
100-C-3_Shallow	non-Rad	Silver	7440-22-4	ug/kg	112	167	No		
100-C-3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,084	3,210	No	4,042 1.6	No No
100-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No		
100-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.71	1.1	No	1.5	No
100-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	1.1	No	1.2	No
100-C-7:1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.10E+06	1.18E+07	No	2.88E+07	No
100-C-7:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,482	20,000	No	27,700	No
100-C-7:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	63,124	132,000	No	480,000	No
100-C-7:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	295	1,510	No	10,000	No
100-C-7:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,608	3,890	No	5,860	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-C-7:1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	84	563	No	2,980	No
100-C-7:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,876	18,500	No	320,000	No
100-C-7:1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,282	15,700	No	110,000	No
100-C-7:1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,632	22,000	No	61,000	No
100-C-7:1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	3.26E+07	No	6.81E+07	No
100-C-7:1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	5,004	10,200	No	74,100	No
100-C-7:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	343,222	512,000	No	1.11E+06	No
100-C-7:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	24	13	Yes	29	No
100-C-7:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	373	470	No	3,170	No
100-C-7:1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,250	19,100	No	200,000	No
100-C-7:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	61,594	85,100	No	140,000	No
100-C-7:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	44,300	67,800	No	366,000	No
100-C-7:1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	4.54E+06	1.18E+07	No	2.88E+07	No
100-C-7:1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	1,420	20,000	No	27,700	No
100-C-7:1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	57,186	132,000	No	480,000	No
100-C-7:1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	212	1,510	No	10,000	No
100-C-7:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	633	3,890	No	5,860	No
100-C-7:1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	45	563	No	2,980	No
100-C-7:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	3,298	18,500	No	320,000	No
100-C-7:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,114	15,700	No	110,000	No
100-C-7:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	12,752	22,000	No	61,000	No
100-C-7:1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No	6.81E+07	No
100-C-7:1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	1,807	10,200	No	74,100	No
100-C-7:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	292,818	512,000	No	1.11E+06	No
100-C-7:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	315	470	No	3,170	No
100-C-7:1_5hallow_2	non-Rad	Nickel	7440-02-0	ug/kg	5,395	19,100	No	200,000	No
100-C-7:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	55,467	85,100	No	140,000	No
100-C-7:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,539	67,800	No	366,000	No
100-C-7:1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.89E+06	1.18E+07	No	2.88E+07	No
100-C-7:1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,617	20,000	No	27,700	No
100-C-7:1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	73,483	132,000	No	480,000	No
100-C-7:1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg		1,510	No	10,000	No
100-C-7:1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg		3,890	No	5,860	No
100-C-7:1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	152	563	No	2,980	No
100-C-7:1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
100-C-7:1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg		15,700	No	110,000	No
100-C-7:1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18,845	22,000	No	61,000	No
100-C-7:1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.84E+07	3.26E+07	No	6.81E+07	No
100-C-7:1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	4,032	10,200	No	74,100	No
100-C-7:1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg		512,000	No	1.11E+06	No
100-C-7:1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	12	13	No	29	No
100-C-7:1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg		470	Yes	3,170	No
100-C-7:1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10,337	19,100	No	200,000	No
100-C-7:1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg		85,100	No	140,000	No
100-C-7:1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	50,985	67,800	No	366,000	No
100-C-7_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	7.17E+06	1.18E+07	No	2.88E+07	No
100-C-7_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,692	20,000	No	27,700	No
100-C-7_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
100-C-7_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	288	1,510	No	10,000	No
100-C-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg		3,890	No	5,860	No
100-C-7_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	92	563	No	2,980	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background Value:	Table 7-3. Comparison of EPCs	for Waste Site Decision	Units in the 100-BC Source (OU to Hanford Site Background Values
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	Analyte	Table 7-3. Comparison of EPCs for Waste S	The Person Courts of the 100-	1	Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-C-7 Shallow 1	non-Rad	Chromium	7440-47-3	ug/kg	9,051	18,500	No	320,000	No
100-C-7 Shallow 1	non-Rad	Cobalt	7440-48-4	ug/kg	7,957	15,700	No	110,000	No
100-C-7_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,161	22,000	No	61,000	No
100-C-7 Shallow 1	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.26E+07	No	6.81E+07	No
100-C-7_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	6,444	10,200	No	74,100	No
100-C-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	331,459	512,000	No	1.11E+06	No
100-C-7_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	179	13	Yes	29	Yes
100-C-7 Shallow 1	non-Rad	Molybdenum	7439-98-7	ug/kg	447	470	No	3,170	No
100-C-7 Shallow 1	non-Rad	Nickel	7440-02-0	ug/kg	11,443	19,100	No	200,000	No
100-C-7 Shallow 1	non-Rad	Vanadium	7440-62-2	ug/kg	63,129	85,100	No	140,000	No
100-C-7 Shallow 1	non-Rad	Zinc	7440-66-6	ug/kg	46,026	67,800	No	366,000	No
100-C-7 Shallow 2	non-Rad	Aluminum	7429-90-5	ug/kg	3.74E+06	1.18E+07	No	2.88E+07	No
100-C-7 Shallow 2	non-Rad	Arsenic	7440-38-2	ug/kg	1,398	20,000	No	27,700	No
100-C-7 Shallow 2	non-Rad	Barium	7440-39-3	ug/kg	44,286	132,000	No	480,000	No
100-C-7 Shallow 2	non-Rad	Beryllium	7440-41-7	ug/kg	188	1,510	No	10,000	No
100-C-7 Shallow 2	non-Rad	Cadmium	7440-43-9	ug/kg	73	563	No	2,980	No
100-C-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	2,573	18,500	No	320,000	No
100-C-7_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,736	15,700	No	110,000	No
100-C-7_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,385	22,000	No	61,000	No
100-C-7_Shallow_2	non-Rad	iron	7439-89-6	ug/kg	2.23E+07	3.26E+07	No	6.81E+07	No
100-C-7_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	2,259	10,200	No	74,100	No
100-C-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	264,954	512,000	No	1.11E+06	No
100-C-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	328	470	No	3,170	No
100-C-7_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	5,081	19,100	No	200,000	No
100-C-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	58,819	85,100	No	140,000	No
100-C-7_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	37,568	67,800	No	366,000	No
100-C-9:1_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.88E+06	1.18E+07	No	2.88E+07	No
100-C-9:1_Deep_Focused	non-Rad	Antimony	7440-36-0	ug/kg	430	130	Yes	385	Yes
100-C-9:1_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	20,000	No	27,700	No
100-C-9:1_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,000	132,000	No	480,000	No
100-C-9:1_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,800	1,510	Yes	10,000	No
100-C-9:1_Deep_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,900	3,890	No	5,860	No
100-C-9:1_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	60	563	No	2,980	No
100-C-9:1_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,100	18,500	No	320,000	No
100-C-9:1_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,100	15,700	No	110,000	No
100-C-9:1_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	37,300	22,000	Yes	61,000	No
100-C-9:1_Deep_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.69E+07	3.26E+07	No	6.81E+07	No
100-C-9:1_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	15,300	10,200	Yes	74,100	No
100-C-9:1_Deep_Focused	non-Rad	Lithium	7439-93-2	ug/kg	3,400	13,300	No	19,200	No
100-C-9:1_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	311,000	512,000	No	1.11E+06	No
100-C-9:1_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2,900	13	Yes	29	Yes
100-C-9:1_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	470	Yes	3,170	No
100-C-9:1_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,800	19,100	No	200,000	No
100-C-9:1_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	66,300	85,100	No	140,000	No
100-C-9:1_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,600	67,800	No	366,000	No
100-C-9:1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No	1.6	No
100-C-9:1_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	470	130	Yes	385	Yes
100-C-9:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,304	20,000	No	27,700	No
100-C-9:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	68,483	132,000	No	480,000	No
100-C-9:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	328	1,510	No	10,000	No
100-C-9:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	836	3,890	No	5,860	No

	Analyte	Table 7-3. Comparison of EPCs for Waste S			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
100-C-9:1 Shallow 1	non-Rad	Cadmium	7440-43-9	ug/kg	145	563	No	2,980	No
100-C-9:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,505	18,500	No	320,000	No
100-C-9:1 Shallow 1	non-Rad	Cobalt	7440-48-4	ug/kg	8,098	15,700	No	110,000	No
100-C-9:1 Shallow 1	non-Rad	Copper	7440-50-8	ug/kg	16,720	22,000	No	61,000	No
100-C-9:1 Shallow 1	non-Rad	Lead	7439-92-1	ug/kg	4,050	10,200	No	74,100	No
100-C-9:1 Shallow 1	non-Rad	Manganese	7439-96-5	ug/kg	316,608	512,000	No	1.11E+06	No
100-C-9:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	44	13	Yes	29	Yes
100-C-9:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	424	470	No	3,170	No
100-C-9:1 Shallow 1	non-Rad	Nickel	7440-02-0	ug/kg	10,764	19,100	No	200,000	No
100-C-9:1 Shallow 1	non-Rad	Selenium	7782-49-2	ug/kg	474	780	No	840	No
100-C-9:1 Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	81	167	No	273	No
100-C-9:1 Shallow 1	non-Rad	Vanadium	7440-62-2	ug/kg	46,252	85,100	No	140,000	No
100-C-9:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	40,749	67,800	No	366,000	No
100-C-9:1 Shallow 2	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	1.18E+07	No	2.88E+07	No
100-C-9:1 Shallow 2	non-Rad	Antimony	7440-36-0	ug/kg	513	130	Yes	385	Yes
100-C-9:1 Shallow 2	non-Rad	Arsenic	7440-38-2	ug/kg	4,983	20,000	No	27,700	No
100-C-9:1 Shallow 2	non-Rad	Barium	7440-39-3	ug/kg	75,252	132,000	No	480,000	No
100-C-9:1 Shallow 2	non-Rad	Beryllium	7440-41-7	ug/kg	398	1,510	No	10,000	No
100-C-9:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,235	3,890	No	5,860	No
100-C-9:1 Shallow 2	non-Rad	Cadmium	7440-43-9	ug/kg	260	563	No	2,980	No
100-C-9:1 Shallow 2	non-Rad	Chromium	7440-47-3	ug/kg	16,359	18,500	No	320,000	No
100-C-9:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,787	15,700	No	110,000	No
100-C-9:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	18,114	22,000	No	61,000	No
100-C-9:1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.35E+07	3.26E+07	No	6.81E+07	No
	non-Rad	Lead	7439-92-1	ug/kg	6,459	10,200	No	74,100	No
100-C-9:1_Shallow_2	non-Rad	Lithium	7439-93-2	ug/kg	8,109	13,300	No	19,200	No
100-C-9:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	402,742	512,000	No	1.11E+06	No
100-C-9:1_Shallow_2	non-Rad		7439-97-6	ug/kg	1,886	13	Yes	29	Yes
100-C-9:1_Shallow_2	non-Rad	Mercury Molybdenum	7439-98-7	ug/kg	367	470	No	3,170	No
100-C-9:1_Shallow_2		Nickel	7440-02-0	ug/kg	12,476	19,100	No	200,000	No
100-C-9:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	49,792	85,100	No	140,000	No
100-C-9:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	48,244	67,800	No	366,000	No
100-C-9:1_Shallow_2			7440-38-2	ug/kg		20,000	No	27,700	No
100-C-9:1_Shallow_Focused	non-Rad	Arsenic	7440-39-3	ug/kg	162,000	132,000	Yes	480,000	No
100-C-9:1_Shallow_Focused	non-Rad	Barium	7440-43-9	ug/kg	340	563	No	2,980	No
100-C-9:1_Shallow_Focused	non-Rad	Cadmium	7440-47-3		17,300	18,500	No	320,000	No
100-C-9:1_Shallow_Focused	non-Rad	Chromium	7439-92-1	ug/kg ug/kg		10,200	No	74,100	No
100-C-9:1_Shallow_Focused	non-Rad	Lead	7782-49-2		430	780	No	840	No
100-C-9:1_Shallow_Focused	non-Rad	Selenium	7429-90-5	ug/kg	5.49E+06	1.18E+07	No	2.88E+07	No
100-C-9:2_Shallow	non-Rad	Aluminum Arsenic	7440-38-2	ug/kg ug/kg	2,827	20,000	No	27,700	No
100-C-9:2_Shallow	non-Rad		7440-39-3			132,000	No	480,000	No
100-C-9:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg ug/kg	454	1,510	No	10,000	No
100-C-9:2_Shallow	non-Rad	Beryllium	7440-43-9		258	563	No	2,980	No
100-C-9:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg ug/kg	_	18,500	No	320,000	No
100-C-9:2_Shallow	non-Rad	Chromium	7440-47-3	_	7,997	15,700	No	110,000	No
100-C-9:2_Shallow	non-Rad	Cobalt	7440-50-8	ug/kg	15,494	22,000	No	61,000	No
100-C-9:2_Shallow	non-Rad	Copper	7439-89-6	ug/kg	1.94E+07	3.26E+07	No	6.81E+07	No
100-C-9:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg		10,200	Yes	74,100	No
100-C-9:2_Shallow	non-Rad	Lead Lithium	7439-93-2	_	6,540	13,300	No	19,200	No
100-C-9:2_Shallow	non-Rad			ug/kg	341,053	512,000	No	1.11E+06	No
100-C-9:2_Shallow	non-Rad	Manganese	7439-96-5 7439-97-6	ug/kg	40	13	Yes	29	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background Value	Table 7-3. C	omparison of EPCs for	Waste Site Decision Units in th	e 100-BC Source OU to	Hanford Site Background Values
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Waste Site/Decision Unit	Analyte Group	Table 7-3. Comparison of EPCs for Waste Site I	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	is EPC > Background?	Maximum Background Value	Is EPC > Maximum Background?
100-C-9:2 Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	418	470	No	3,170	No
100-C-9:2 Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,637	19,100	No	200,000	No
100-C-9:2 Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	46,900	85,100	No	140,000	No
100-C-9:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	263,884	67,800	Yes	366,000	No
100-C-9:2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	1.1	No	1.6	No
100-C-9:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	1.18E+07	No	2.88E+07	No
100-C-9:2 Shallow Focused	non-Rad	Antimony	7440-36-0	ug/kg	970	130	Yes	385	Yes
100-C-9:2 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,400	20,000	No	27,700	No
100-C-9:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,100	132,000	No	480,000	No
100-C-9:2 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	510	1,510	No	10,000	No
100-C-9:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,100	3,890	Yes	5,860	No
100-C-9:2 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	500	563	No	2,980	No
100-C-9:2 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,500	18,500	No	320,000	No
100-C-9:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,900	15,700	No	110,000	No
100-C-9:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	66,100	22,000	Yes	61,000	Yes
100-C-9:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	3.18E+07	3.26E+07	No	6.81E+07	No
100-C-9:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	152,000	10,200	Yes	74,100	Yes
100-C-9:2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	7,200	13,300	No	19,200	No
	non-Rad	Manganese	7439-96-5	ug/kg	456,000	512,000	No	1,11E+06	No No
100-C-9:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	-	850	13	Yes		
100-C-9:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,900	470		29	Yes
100-C-9:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	22,000	19,100	Yes	3,170	No
100-C-9:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2			85,100	Yes		No
100-C-9:2_Shallow_Focused				ug/kg	58,400		No	140,000	No
100-C-9:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	111,000	67,800	Yes	366,000	No
100-C-9:3_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	1.18E+07	No	2.88E+07	No
100-C-9:3_Deep_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,100	130	Yes	385	Yes
100-C-9:3_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,500	20,000	No	27,700	No
100-C-9:3_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	66,700	132,000	No	480,000	No
100-C-9:3_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	330	1,510	No	10,000	No
100-C-9:3_Deep_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	3,890	No	5,860	No
100-C-9:3_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No	2,980	No
100-C-9:3_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,800	18,500	No	320,000	No
100-C-9:3_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,200	15,700	No	110,000	No
100-C-9:3_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,600	22,000	No	61,000	No
100-C-9:3_Deep_Focused	non-Rad	lron Lead	7439-89-6	ug/kg	2.55E+07	3.26E+07	No	6.81E+07	No
100-C-9:3_Deep_Focused	non-Rad		7439-92-1	ug/kg	6,300	10,200	No	74,100	No
100-C-9:3_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	412,000	512,000	No	1.11E+06	No
100-C-9:3_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	640	470	Yes	3,170	No
100-C-9:3_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,500	19,100	No	200,000	No
100-C-9:3_Deep_Focused	non-Rad	Silver	7440-22-4	ug/kg	140	167	No	273	No
100-C-9:3_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	85,100	No	140,000	No
100-C-9:3_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	54,900	67,800	No	366,000	No
116-B-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	16,456	18,500	No	320,000	No
116-B-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,795	10,200	No	74,100	No
116-B-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
116-B-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,834	3,210	No	4,042	No
116-B-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	3.1	1.1	Yes	1.6	Yes
116-B-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	0.0084	Yes	0.039	Yes
116-B-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.36	0.033	Yes	0.079	Yes
116-B-1_Deep_	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	0.025	Yes	0.033	Yes
116-B-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	0.18	Yes	0.37	Yes

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximus
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-B-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.1	1.1	Yes	1.5	No
116-B-1_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.045	0.11	No	0.39	No
116-B-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.95	1.1	No	1.2	No
116-B-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,550	18,500	No	320,000	No
116-B-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,699	10,200	No	74,100	No
116-B-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	13	Yes	29	No
116-8-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,247	3,210	No	4,042	No
116-8-1 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.19	1.1	No	1.6	No
116-B-1 Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	0.0084	Yes	0.039	Yes
116-B-1 Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.18	0.033	Yes	0.079	Yes
116-B-1 Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.031	0.025	Yes	0.033	No
116-B-1 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	1.1	No	1.5	No
116-B-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.75	1.1	No	1.2	No
116-B-10 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	23,800	18,500	Yes	320,000	No
116-B-10 Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,000	10,200	No	74,100	No
116-B-10 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,300	13	Yes	29	Yes
116-B-10 Shallow	non-Rad	Total U Isotopes	Total_U_isotopes	ug/kg	2.122	3.210	No	4,042	No
116-B-10 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.034	1.1	No	1.6	No
116-B-10 Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.080	0.0084	Yes	0.039	Yes
116-B-10 Shallow	Rad	Uranium-233/234	U-233/234	-	0.56	1.1	No	1.5	No
116-B-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.71	1.1	No	1.2	No
	non-Rad	Chromium	7440-47-3	-	231,428	18,500	Yes	320,000	
116-B-11_Deep	non-Rad	The same of the sa		ug/kg					No
116-B-11_Deep		Lead	7439-92-1	ug/kg	11,745	10,200	Yes	74,100	No
116-B-11_Deep	non-Rad	Mercury	7439-97-6	ug/kg	5,251		Yes	29	Yes
116-B-11_Deep		Total_U_Isotopes	Total_U_Isotopes	ug/kg	4,297	3,210	Yes	4,042	Yes
116-B-11_Deep	Rad	Cesium-137	10045-97-3	pCi/g	122	1.1	Yes	1.6	Yes
116-B-11_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	40	0.0084	Yes	0.039	Yes
116-B-11_Deep	Rad	Europium-154	15585-10-1	pCi/g	42	0.033	Yes	0.079	Yes
116-B-11_Deep	Rad	Europium-155	14391-16-3	pCi/g	2.2	0.054	Yes	0.098	Yes
116-B-11_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.76	0.0038	Yes	0.019	Yes
116-B-11_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	19	0.025	Yes	0.033	Yes
116-B-11_Deep	Rad	Total beta radiostrontium	5R-RAD	pCi/g	4.8	0.18	Yes	0.37	Yes
116-B-11_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.6	1.1	Yes	1.5	Yes
116-B-11_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.069	0.11	No	0.39	No
116-B-11_Deep	Rad	Uranium-238	U-238	pCi/g	1.4	1.1	Yes	1.2	Yes
116-B-11_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,637	18,500	No	320,000	No
116-B-11_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,063	10,200	No	74,100	No
116-B-11_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	121	13	Yes	29	Yes
116-B-11_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,928	3,210	Yes	4,042	No
116-B-11_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.92	1.1	No	1.6	No
116-B-11_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	0.0084	Yes	0.039	Yes
116-B-11_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.069	0.025	Yes	0.033	Yes
116-B-11_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.34	0.18	Yes	0.37	No
116-B-11_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.3	1.1	Yes	1.5	No
116-B-11_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.057	0.11	No	0.39	No
116-B-11_Shallow	Rad	Uranium-238	U-238	pCi/g	1.3	1.1	Yes	1.2	Yes
116-B-12_Deep	non-Rad	Chromium	7440-47-3	ug/kg	10,800	18,500	No	320,000	No
116-B-12_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,700	10,200	No	74,100	No
116-B-12_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,048	3,210	No	4,042	No
116-B-12 Deep	Rad	Cesium-137	10045-97-3	nCi/e	0.019	11	No	1.6	No

10045-97-3

U-233/234

Rad

Rad

116-B-12_Deep

116-B-12_Deep

Cesium-137

Uranium-233/234

pCi/g

pCi/g

0.019

0.62

1.1

1.1

No

No

1.6

1.5

No

No

	Analyte				Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-B-12_Deep	Rad	Uranium-238	U-238	pCi/g	0.69	1.1	No	1.2	No
116-B-12_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,900	18,500	No	320,000	No
116-B-12_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,600	10,200	No	74,100	No
116-B-12_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,884	3,210	No	4,042	No
116-B-12_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.034	1.1	No	1.6	No
116-B-12_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	1.1	No	1.5	No
116-B-12_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.024	0.11	No	0.39	No
116-B-12_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No	1.2	No
116-B-13_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,700	18,500	No	320,000	No
116-B-13_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,300	10,200	No	74,100	No
116-B-13_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
116-B-13_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,975	3,210	No	4,042	No
116-B-13_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049	1.1	No	1.6	No
116-B-13_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	0.025	Yes	0.033	Yes
116-B-13_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.41	0.18	Yes	0.37	Yes
116-B-13_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.1	1.1	No	1.5	No
116-B-13_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.055	0.11	No	0.39	No
116-B-13_Shallow	Rad	Uranium-238	U-238	pCi/g	0.99	1.1	No	1.2	No
116-8-14_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	7.92E+06	1.18E+07	No	2.88E+07	No
116-B-14_Deep	non-Rad	Antimony	7440-36-0	ug/kg	6,600	130	Yes	385	Yes
116-B-14_Deep	non-Rad	Barium	7440-39-3	ug/kg	93,800	132,000	No	480,000	No
116-B-14_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	520	1,510	No	10,000	No
116-8-14_Deep	non-Rad	Chromium	7440-47-3	ug/kg	18,600	18,500	Yes	320,000	No
116-B-14_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	15,700	No	110,000	No
116-B-14_Deep	non-Rad	Copper	7440-50-8	ug/kg	17,400	22,000	No	61,000	No
116-B-14_Deep	non-Rad	Iron	7439-89-6	ug/kg	1.93E+07	3.26E+07	No	6.81E+07	No
116-B-14_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,300	10,200	No	74,100	No
116-B-14 Deep	non-Rad	Manganese	7439-96-5	ug/kg	307,000	512,000	No	1.11E+06	No
116-B-14_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes	29	No
116-B-14_Deep	non-Rad	Nickel	7440-02-0	ug/kg	17,900	19,100	No	200,000	No
116-B-14_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,095	3,210	No	4,042	No
116-B-14_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	39,600	85,100	No	140,000	No
116-B-14_Deep	non-Rad	Zinc	7440-66-6	ug/kg	42,300	67,800	No	366,000	No
116-B-14_Deep	Rad	Cesium-137	10045-97-3	pCi/g	5.9	1.1	Yes	1.6	Yes
116-B-14_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	0.025	Yes	0.033	Yes
116-B-14_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	0.18	Yes	0.37	Yes
116-B-14_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.99	1.1	No	1.5	No
116-B-14_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.063	0.11	No	0.39	No
116-B-14_Deep	Rad	Uranium-238	U-238	pCi/g	1.0	1.1	No	1.2	No
116-B-14_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	33,600	18,500	Yes	320,000	No
116-B-14_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,000	10,200	Yes	74,100	No
116-B-14_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes	29	Yes
116-B-14_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	4,346	3,210	Yes	4,042	Yes
116-B-14_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	1.1	No	1.6	No
116-B-14_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.37	0.025	Yes	0.033	Yes
116-B-14_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	0.18	Yes	0.37	Yes
116-B-14_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.5	1.1	Yes	1.5	Yes
116-B-14_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.061	0.11	No	0.39	No
116-B-14_Shallow	Rad	Uranium-238	U-238	pCi/g	1.5	1.1	Yes	1.2	Yes
116-B-15_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,800	20,000	No	27,700	No
116-B-15_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	89,000	132,000	No	480,000	No

	Analyte	Table 7-3. Comparison of EPCs for Waste Site De			Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-B-15 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	14,400	18,500	No	320,000	No
116-B-15 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	9,300	10,200	No	74,100	No
116-B-15 Shallow Focused	non-Rad	Selenium	7782-49-2	ug/kg	500	780	No	840	No
116-B-15 Shallow Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,983	3,210	No	4,042	No
116-B-15 Shallow Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.1	No	1.5	No
116-B-15 Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.67	1.1	No	1.2	No
116-B-2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	12,000	18,500	No	320,000	No
116-B-2_Deep	non-Rad	Lead	7439-92-1	ug/kg	6,600	10,200	No	74,100	No
116-B-2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,658	3,210	No	4,042	No
116-B-2 Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	1.1	Yes	1.6	Yes
116-B-2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.023	0.0084	Yes	0.039	No
116-B-2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.59	0.025	Yes	0.033	Yes
116-B-2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	7.2	0.18	Yes	0.37	Yes
116-B-2 Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	1.1	No	1.5	No
116-B-2_Deep	Rad	Uranium-238	U-238	pCi/g	0.56	1.1	No	1.2	No
116-B-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,300	18,500	No	320,000	No
116-B-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,100	10,200	No	74,100	No
116-B-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,482	3,210	No	4,042	No
116-B-2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.1	Yes	1.6	No
116-B-2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	0.18	Yes	0.37	No
116-B-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No	1.5	No
116-B-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No	1.2	No
116-B-3 Deep	non-Rad	Chromium	7440-47-3	ug/kg	10,400	18,500	No	320,000	No
116-B-3 Deep	non-Rad	Lead	7439-92-1	ug/kg	5,900	10,200	No	74,100	No
116-B-3_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
116-B-3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,727	3,210	No	4,042	No
116-B-3 Deep	Rad	Cesium-137	10045-97-3	pCi/g	20	1.1	Yes	1.6	Yes
116-B-3 Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	0.025	Yes	0.033	Yes
116-B-3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	3.2	0.18	Yes	0.37	Yes
116-B-3 Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	1.1	No	1.5	No
116-B-3 Deep	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No	1.2	No
116-B-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,800	18,500	No	320,000	No
116-B-3 Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,400	10,200	No	74,100	No
116-B-3 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	50	13	Yes	29	Yes
116-B-3 Shallow	non-Rad	Total U Isotopes	Total U_Isotopes	ug/kg	1,697	3,210	No	4,042	No
116-B-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	1.1	No	1.6	No
116-B-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.1	No	1.5	No
116-B-3 Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No	1.2	No
116-B-4_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	7.62E+06	1.18E+07	No	2.88E+07	No
116-B-4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	6,701	130	Yes	385	Yes
116-B-4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	20,000	No	27,700	No
116-B-4_Deep	non-Rad	Barium	7440-39-3	ug/kg	50,733	132,000	No	480,000	No
116-8-4_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	459	1,510	No	10,000	No
116-B-4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	394	563	No	2,980	No
116-B-4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	92,716	18,500	Yes	320,000	No
116-B-4 Deep	non-Rad	Cobalt	7440-48-4	ug/kg	8,845	15,700	No	110,000	No
116-B-4_Deep	non-Rad	Copper	7440-50-8	ug/kg	21,616	22,000	No	61,000	No
116-B-4_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	3.26E+07	No	6.81E+07	No
116-B-4_Deep	non-Rad	Lead	7439-92-1	ug/kg	94,296	10,200	Yes	74,100	Yes
116-B-4 Deep	non-Rad	Manganese	7439-96-5	ug/kg	206,278	512,000	No	1.11E+06	No
116-B-4_Deep	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes

	Analyte	Table 7-3. Comparison of EPCs for Waste Site Decision			Exposure Point	Lognormal 90th Percentile	ls EPC >	Maximum	is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-B-4 Deep	non-Rad	Nickel	7440-02-0	ug/kg	6,185	19,100	No	200,000	No
116-B-4_Deep	non-Rad	Silver	7440-22-4	ug/kg	720	167	Yes	273	Yes
116-B-4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg		3,210	No	4,042	No
116-B-4 Deep	non-Rad	Vanadium	7440-62-2	ug/kg		85,100	No	140,000	No
116-B-4 Deep	non-Rad	Zinc	7440-66-6	ug/kg	43,911	67,800	No	366,000	No
116-B-4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	112	1.1	Yes	1.6	Yes
116-B-4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	0.0084	Yes	0.039	Yes
116-B-4 Deep	Rad	Europium-154	15585-10-1	pCi/g	45	0.033	Yes	0.079	Yes
116-8-4_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.3	0.054	Yes	0.098	Yes
116-B-4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No	1.5	No
116-B-4_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No	1.2	No
116-B-4 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,900	18,500	No	320,000	No
116-B-4 Shallow	non-Rad	Lead	7439-92-1	ug/kg		10,200	No	74,100	No
116-B-4 Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,881	3,210	No	4,042	No
116-B-4 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.049	1.1	No	1.6	No
116-B-4 Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	0.0038	Yes	0.019	Yes
116-B-4 Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	0.025	Yes	0.033	Yes
116-B-4 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No	1.5	No
116-B-4 Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No	1.2	No
116-B-5_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	2,800	13	Yes	29	Yes
116-B-5 Deep Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.29	1.1	No	1.6	No
116-B-5_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.94	0.0084	Yes	0.039	Yes
116-B-5 Deep Focused	Rad	Europium-154	15585-10-1	pCi/g	0.88	0.033	Yes	0.079	Yes
116-B-5 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	300,000	132,000	Yes	480,000	No
116-B-5 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	16,000	13	Yes	29	Yes
116-B-5 Shallow Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.8	1.1	Yes	1.6	Yes
116-B-5 Shallow Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.0	0.0084	Yes	0.039	Yes
116-B-5 Shallow Focused	Rad	Europium-154	15585-10-1	pCi/g	0.67	0.033	Yes	0.079	Yes
116-B-6A_Deep	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
116-B-6A_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,900	10,200	No	74,100	No
116-B-6A Deep	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg		3,210	No	4,042	No
116-B-6A Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.0	1.1	Yes	1.6	Yes
116-B-6A Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	0.025	Yes	0.033	Yes
116-B-6A Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	0.18	Yes	0.37	Yes
116-B-6A Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.1	No	1.5	No
116-B-6A Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.042	0.11	No	0.39	No
116-B-6A_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No	1.2	No
116-B-6A Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,700	18,500	No	320,000	No
116-B-6A Shallow	non-Rad	Lead	7439-92-1	ug/kg	11,100	10,200	Yes	74,100	No
116-B-6A Shallow	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	No
116-B-6A Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,779	3,210	No	4,042	No
116-B-6A Shallow	Rad	Cesium-137	10045-97-3	pCi/g	6.4	1.1	Yes	1.6	Yes
116-B-6A_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.23	0.025	Yes	0.033	Yes
116-B-6A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	3.3	0.18	Yes	0.37	Yes
116-B-6A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.4	1.1	Yes	1.5	No
116-B-6A_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.28	0.11	Yes	0.39	No
116-B-6A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No	1.2	No
116-B-6B_Shallow	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
116-B-6B Shallow	non-Rad	Lead	7439-92-1	ug/kg		10,200	No	74,100	No
116-B-6B Shallow	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes
116-B-6B_Shallow	non-Rad	Total_U_Isotopes	Total U Isotopes	ug/kg		3,210	No	4,042	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Ha	nford Site Background Values
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	Analyte	Table 7-3. Comparison of EPCs for Waste Site D			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-B-6B_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.030	1.1	No	1.6	No
116-B-6B_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No	1.5	No
116-B-6B_Shallow	Rad	Uranium-238	U-238	pCi/g	0.64	1.1	No	1.2	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	25,200	18,500	Yes	320,000	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Lead	7439-92-1	ug/kg	8,800	10,200	No	74,100	No
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	750	13	Yes	29	Yes
116-B-7, 132-B-6, 132-C-2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg		3,210	No	4,042	No
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Cesium-137	10045-97-3	pCi/g		1.1	Yes	1.6	Yes
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g		0.0084	Yes	0.039	Yes
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g		0.18	Yes	0.37	Yes
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.93	1.1	No	1.5	No
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.053	0.11	No	0.39	No
116-B-7, 132-B-6, 132-C-2_Deep	Rad	Uranium-238	U-238	pCi/g	0.84	1.1	No	1.2	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,087	18,500	Yes	320,000	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,194	10,200	No	74,100	No
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	63	13	Yes	29	Yes
116-B-7, 132-B-6, 132-C-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,072	3,210	No	4,042	No
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.34	1.1	No	1.6	No
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.25	0.0084	Yes	0.039	Yes
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.22	0.033	Yes	0.079	Yes
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.75	1.1	No	1.5	No
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.050	0.11	No	0.39	No
116-B-7, 132-B-6, 132-C-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69	1.1	No	1.2	No
116-B-9 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,200	18,500	No	320,000	No
116-B-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,000	10,200	Yes	74,100	No
116-B-9 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	390	13	Yes	29	Yes
116-B-9 Shallow	non-Rad	Total_U_isotopes	Total_U_Isotopes	ug/kg	1,372	3,210	No	4,042	No
116-B-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.44	1.1	No	1.5	No
116-B-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	1.1	No	1.2	No
116-C-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	66,667	18,500	Yes	320,000	No
116-C-1_Deep	non-Rad	Lead	7439-92-1	ug/kg		10,200	Yes	74,100	No
116-C-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes
116-C-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg		3,210	Yes	4,042	Yes
116-C-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g		1.1	Yes	1.6	Yes
116-C-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g		0.0084	Yes	0.039	Yes
116-C-1_Deep	Rad	Europium-154	15585-10-1	pCi/g		0.033	Yes	0.079	Yes
116-C-1_Deep	Rad	Europium-155	14391-16-3	pCi/g	-	0.054	Yes	0.098	Yes
116-C-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g		0.0038	Yes	0.019	Yes
116-C-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g		0.025	Yes	0.033	Yes
116-C-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4	0.18	Yes	0.37	Yes
116-C-1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.1	No	1.5	No

	Analyte				Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-C-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	5.1	1.1	Yes	1.5	Yes
116-C-1_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.063	0.11	No	0.39	No
116-C-1_Deep	Rad	Uranium-238	U-238	pCi/g	6.1	1.1	Yes	1.2	Yes
116-C-1_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.69E+06	1.18E+07	No	2.88E+07	No
116-C-1_Deep_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,600	130	Yes	385	Yes
116-C-1_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	77,800	132,000	No	480,000	No
116-C-1_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	530	1,510	No	10,000	No
116-C-1_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	2,900	563	Yes	2,980	No
116-C-1_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	148,000	18,500	Yes	320,000	No
116-C-1_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,000	15,700	No	110,000	No
116-C-1_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	30,400	22,000	Yes	61,000	No
116-C-1_Deep_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.31E+07	3.26E+07	No	6.81E+07	No
116-C-1_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	48,500	10,200	Yes	74,100	No
116-C-1_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	296,000	512,000	No	1.11E+06	No
116-C-1_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	11,800	13	Yes	29	Yes
116-C-1_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	18,600	19,100	No	200,000	No
116-C-1_Deep_Focused	non-Rad	Silver	7440-22-4	ug/kg	890	167	Yes	273	Yes
116-C-1_Deep_Focused	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	2,977	3,210	No	4,042	No
116-C-1_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	85,100	No	140,000	No
116-C-1_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	464,000	67,800	Yes	366,000	Yes
116-C-1_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	5,690	1.1	Yes	1.6	Yes
116-C-1_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	115	0.0084	Yes	0.039	Yes
116-C-1_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	144	0.033	Yes	0.079	Yes
116-C-1_Deep_Focused	Rad	Plutonium-238	13981-16-3	pCi/g	4.0	0.0038	Yes	0.019	Yes
116-C-1_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	136	0.025	Yes	0.033	Yes
116-C-1_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	88	0.18	Yes	0.37	Yes
116-C-1_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.19	1.1	No	1.5	No
116-C-1 Deep Focused	Rad	Uranium-238	U-238	pCi/g	1.0	1.1	No	1.2	No
116-C-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,664	18,500	No	320,000	No
116-C-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,420	10,200	No	74,100	No
116-C-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes	29	Yes
116-C-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,357	3,210	No	4,042	No
116-C-1 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.83	1.1	No	1.6	No
116-C-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.074	0.0084	Yes	0.039	Yes
116-C-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	0.025	Yes	0.033	Yes
116-C-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	0.18	Yes	0.37	No
116-C-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.82	1.1	No	1.5	No
116-C-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.045	0.11	No	0.39	No
116-C-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.79	1.1	No	1.2	No
116-C-2A_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,500	18,500	Yes	320,000	No
116-C-2A_Deep	non-Rad	Lead	7439-92-1	ug/kg	14,000	10,200	Yes	74,100	No
116-C-2A_Deep	non-Rad	Mercury	7439-97-6	ug/kg	150	13	Yes	29	Yes
116-C-2A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,428	3,210	No	4,042	No
116-C-2A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	23	1.1	Yes	1.6	Yes
116-C-2A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	12	0.0084	Yes	0.039	Yes
116-C-2A_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.3	0.033	Yes	0.079	Yes
116-C-2A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	0.0038	Yes	0.019	Yes
116-C-2A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.5	0.025	Yes	0.033	Yes
116-C-2A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.2	0.18	Yes	0.37	Yes
116-C-2A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	1.1	No	1.5	No
116-C-2A_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.036	0.11	No	0.39	No

Waste Site/Decision Unit	Analyte Group	Table 7-3. Comparison of EPCs for Waste Site De	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?	Maximum Background Value	is EPC > Maximum Background?
The second secon		the state of the s	U-238		0.48	1.1	No	1.2	No
116-C-2A_Deep	Rad	Uranium-238	7440-47-3	pCi/g	10,262	18,500	No	320,000	No
116-C-2A_Shallow	non-Rad	Chromium Lead		ug/kg	7,600	10,200	No	74,100	No
116-C-2A_Shallow	non-Rad		7439-92-1 7439-97-6	ug/kg	120	13	Yes	29	Yes
116-C-2A_Shallow	non-Rad	Mercury		ug/kg	1,378	3,210	No	4,042	No
116-C-2A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes 10045-97-3	ug/kg	0.43	1.1	No	1.6	No
116-C-2A_Shallow	Rad	Cesium-137	10198-40-0	pCi/g		0.0084	Yes	0.039	Yes
116-C-2A_Shallow	Rad	Cobalt-60		pCi/g	0.23	0.0084	Yes	0.033	Yes
116-C-2A_Shallow	Rad	Plutonium-239/240	PU-239/240 SR-RAD	pCi/g	1.9	0.025	Yes	0.37	Yes
116-C-2A_Shallow	Rad	Total beta radiostrontium Uranium-233/234	U-233/234	pCi/g pCi/g	0.50	1.1	No	1.5	No
116-C-2A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.46	1.1	No	1.2	No
116-C-2A_Shallow			7429-90-5		9.19E+06	1.18E+07	No	2.88E+07	No
116-C-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1,080	130	Yes	385	Yes
116-C-3_Shallow	non-Rad	Antimony		ug/kg	5,112	20,000	No	27,700	No
116-C-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	_			480,000	No
116-C-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	106,052	132,000	No No	10,000	No
116-C-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg		1,510			
116-C-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	7,239	3,890	Yes	5,860	Yes
116-C-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg		563	No	2,980	No
116-C-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
116-C-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg		15,700	No	110,000	No
116-C-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,592	22,000	No	61,000	No
116-C-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.92E+07	3.26E+07	No	6.81E+07	No
116-C-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,129	10,200	No	74,100	No
116-C-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg		512,000	No	1.11E+06	No
116-C-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	15,662	19,100	No	200,000	No
116-C-3_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	ug/kg		3,210	No	4,042	No
116-C-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	38,808	85,100	No	140,000	No
116-C-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,655	67,800	No	366,000	No
116-C-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.86	1.1	No	1.6	No
116-C-3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.15	0.025	Yes	0.033	Yes
116-C-3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.64	0.18	Yes	0.37	Yes
116-C-3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.80	1.1	No	1.5	No
116-C-3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.77	1.1	No	1.2	No
116-C-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.15E+07	1.18E+07	No	2.88E+07	No
116-C-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,400	20,000	No	27,700	No
116-C-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	196,000	132,000	Yes	480,000	No
116-C-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	710	1,510	No	10,000	No
116-C-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	24,300	3,890	Yes	5,860	Yes
116-C-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	360	563	No	2,980	No
116-C-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	26,400	18,500	Yes	320,000	No
116-C-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,700	15,700	No	110,000	No
116-C-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,400	22,000	No	61,000	No
116-C-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No	6.81E+07	No
116-C-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,100	10,200	No	74,100	No
116-C-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346,000	512,000	No	1.11E+06	No
116-C-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	470	Yes	3,170	No
116-C-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	18,200	19,100	No	200,000	No
116-C-3_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	12,400	52,000	No	906,000	No
116-C-3_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg		167	Yes	273	No
116-C-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,560	3,210	No	4,042	No
116-C-3 Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg		85,100	No	140,000	No

	Analyte	Table 7-3. Comparison of EPCs for Waste Site			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
116-C-3 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	51,400	67,800	No	366,000	No
116-C-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	14	1.1	Yes	1.6	Yes
116-C-3 Shallow Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.91	0.025	Yes	0.033	Yes
116-C-3 Shallow Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	18	0.18	Yes	0.37	Yes
116-C-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.90	1.1	No	1.5	No
116-C-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.042	0.11	No	0.39	No
116-C-3 Shallow Focused	Rad	Uranium-238	U-238	pCi/g	0.86	1.1	No	1.2	No
116-C-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	41,332	18,500	Yes	320,000	No
116-C-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	20,715	10,200	Yes	74,100	No
116-C-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	2,436	13	Yes	29	Yes
116-C-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,838	3,210	No	4,042	No
116-C-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	52	1.1	Yes	1.6	Yes
116-C-5 Deep	Rad	Cobalt-60	10198-40-0	pCi/g	18	0.0084	Yes	0.039	Yes
116-C-5_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	0.033	Yes	0.079	Yes
116-C-5 Deep	Rad	Europium-155	14391-16-3	pCi/g	0.48	0.054	Yes	0.098	Yes
116-C-5_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.14	0.0038	Yes	0.019	Yes
116-C-5_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.6	0.025	Yes	0.033	Yes
116-C-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.4	0.18	Yes	0.37	Yes
116-C-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	1.0	1.1	No	1.5	No
116-C-5_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.048	0.11	No	0.39	No
116-C-5 Deep	Rad	Uranium-238	U-238	pCi/g	0.95	1.1	No	1.2	No
116-C-5 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,609	18,500	No	320,000	No
116-C-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,017	10,200	No	74,100	No
116-C-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	32	13	Yes	29	Yes
116-C-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,773	3,210	No	4,042	No
116-C-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.1	Yes	1.6	No
116-C-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	0.0084	Yes	0.039	Yes
116-C-5_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.32	0.033	Yes	0.079	Yes
116-C-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	0.025	Yes	0.033	Yes
116-C-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	0.18	Yes	0.37	Yes
116-C-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.84	1.1	No	1.5	No
116-C-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	- 0.039	0.11	No	0.39	No
116-C-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93	1.1	No	1.2	No
116-C-6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,400	20,000	No	27,700	No
116-C-6_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	44,700	132,000	No	480,000	No
116-C-6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,700	18,500	No	320,000	No
116-C-6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,300	10,200	No	74,100	No
116-C-6_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,557	3,210	No	4,042	No
116-C-6_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.9	1.1	Yes	1.6	Yes
116-C-6_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.53	0.025	Yes	0.033	Yes
116-C-6_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.46	0.18	Yes	0.37	Yes
116-C-6_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No	1.5	No
116-C-6_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.041	0.11	No	0.39	No
116-C-6_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52	1.1	No	1.2	No
118-B-1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.60E+06	1.18E+07	No	2.88E+07	No
118-B-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	20,000	No	27,700	No
118-B-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	63,100	132,000	No	480,000	No
118-B-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	660	1,510	No	10,000	No
118-B-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,900	3,890	No	5,860	No
118-B-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,200	18,500	No	320,000	No
118-B-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	10,700	15,700	No	110,000	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
118-B-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	17,900	22,000	No	61,000	No
118-B-1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.41E+07	3.26E+07	No	6.81E+07	No
118-B-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,900	10,200	No	74,100	No
118-B-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg		512,000	No	1.11E+06	No
118-B-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
118-B-1_Shailow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,900	19,100	No	200,000	No
118-B-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg		3,210	No	4,042	No
118-B-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg		85,100	No	140,000	No
118-8-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	49,100	67,800	No	366,000	No
118-B-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.31	1.1	No	1.6	No
118-B-1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	0.18	Yes	0.37	No
118-B-1_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No	1.5	No
118-B-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No	1.2	No
118-B-1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.17E+06	1.18E+07	No	2.88E+07	No
118-B-1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	20,000	No	27,700	No
118-B-1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	61,000	132,000	No	480,000	No
118-B-1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	650	1,510	No	10,000	No
118-B-1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	5,500	3,890	Yes	5,860	No
118-B-1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	6,900	18,500	No	320,000	No
118-B-1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	15,700	No	110,000	No
118-B-1_Shallow_2	non-Rad	Соррег	7440-50-8	ug/kg	16,800	22,000	No	61,000	No
118-B-1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.26E+07	No	6.81E+07	No
118-B-1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,000	10,200	No	74,100	No
118-B-1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg		512,000	No	1.11E+06	No
118-B-1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,000	19,100	No	200,000	No
118-B-1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	54,700	85,100	No	140,000	No
118-B-1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	43,300	67,800	No	366,000	No
118-B-1 Shallow 2	Rad	Cesium-137	10045-97-3	pCi/g	0.22	1.1	No	1.6	No
118-B-1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	0.18	Yes	0.37	No
118-B-1 Shallow 3	non-Rad	Aluminum	7429-90-5	ug/kg	6.12E+06	1.18E+07	No	2.88E+07	No
118-B-1 Shallow 3	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
118-B-1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
118-B-1 Shallow 3	non-Rad	Beryllium	7440-41-7	ug/kg	650	1,510	No	10,000	No
118-B-1 Shallow 3	non-Rad	Boron	7440-42-8	ug/kg		3,890	Yes	5,860	Yes
118-B-1 Shallow 3	non-Rad	Chromium	7440-47-3	ug/kg		18.500	No	320,000	No
118-B-1 Shallow 3	non-Rad	Cobalt	7440-48-4	ug/kg		15,700	No	110,000	No
118-B-1 Shallow 3	non-Rad	Copper	7440-50-8	ug/kg		22,000	No	61,000	No
118-B-1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg		3.26E+07	No	6.81E+07	No
118-B-1 Shallow 3	non-Rad	Lead	7439-92-1	ug/kg		10,200	No	74,100	No
118-B-1 Shallow 3	non-Rad	Manganese	7439-96-5	ug/kg		512,000	No	1.11E+06	No
118-B-1 Shallow 3	non-Rad	Mercury	7439-97-6	ug/kg	300	13	Yes	29	Yes
118-8-1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg		19,100	No	200,000	No
118-B-1 Shallow 3	non-Rad	Vanadium	7440-62-2	ug/kg		85,100	No	140,000	No
118-8-1 Shallow 3	non-Rad	Zinc	7440-66-6	ug/kg		67,800	No	366,000	No
118-8-1 Shallow 3	Rad	Cesium-137	10045-97-3	pCi/g	1.5	1.1	Yes	1.6	No
118-B-1 Shallow 3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	4.4	0.18	Yes	0.37	Yes
118-8-1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg		1.18E+07	No	2.88E+07	No
118-B-1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
118-B-1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
118-B-1_Shallow_4	non-Rad	Beryllium	7440-41-7			1,510	No	10,000	No
118-B-1 Shallow 4	non-Rad	Boron	7440-41-7	ug/kg ug/kg	-	3,890	Yes	5,860	No

	Analyte	Table 7-3. Comparison of EPCs for Waste Si			Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
118-B-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	6,700	18,500	No	320,000	No
118-B-1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	15,700	No	110,000	No
118-B-1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	16,500	22,000	No	61,000	No
118-B-1_Shallow_4	non-Rad	fron	7439-89-6	ug/kg	2.23E+07	3.26E+07	No	6.81E+07	No
118-B-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	5,500	10,200	No	74,100	No
118-B-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	336,000	512,000	No	1.11E+06	No
118-B-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	11,300	19,100	No	200,000	No
118-B-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	53,400	85,100	No	140,000	No
118-B-1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	42,400	67,800	No	366,000	No
118-B-1_Shallow_4	Rad	Cesium-137	10045-97-3	pCi/g	0.74	1.1	No	1.6	No
118-B-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	3.99E+06	1.18E+07	No	2.88E+07	No
118-B-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	20,000	No	27,700	No
118-B-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	44,400	132,000	No	480,000	No
118-B-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	140	1,510	No	10,000	No
118-B-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No	5,860	No
118-B-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	230	563	No	2,980	No
118-B-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	5,000	18,500	No	320,000	No
118-B-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	6,900	15,700	No	110,000	No
118-B-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	14,300	22,000	No	61,000	No
118-B-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	1.67E+07	3.26E+07	No	6.81E+07	No
118-B-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	4,200	10,200	No	74,100	No
118-B-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	302,000	512,000	No	1.11E+06	No
118-B-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes	29	Yes
118-B-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	7,400	19,100	No	200,000	No
118-B-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	34,700	85,100	No	140,000	No
118-B-1 Shallow 5	non-Rad	Zinc	7440-66-6	ug/kg	38,600	67,800	No	366,000	No
118-B-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	3.6	1.1	Yes	1.6	Yes
118-B-1_Shallow_5	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	0.18	Yes	0.37	Yes
118-B-1_Shallow_6	non-Rad	Aluminum	7429-90-5	ug/kg	5.27E+06	1.18E+07	No	2.88E+07	No
118-B-1_Shallow_6	non-Rad	Arsenic	7440-38-2	ug/kg	4,500	20,000	No	27,700	No
118-B-1_Shallow_6	non-Rad	Barium	7440-39-3	ug/kg	96,400	132,000	No	480,000	No
118-B-1_Shallow_6	non-Rad	Beryllium	7440-41-7	ug/kg	360	1,510	No	10,000	No
118-B-1 Shallow 6	non-Rad	Boron	7440-42-8	ug/kg	8,800	3,890	Yes	5,860	Yes
118-B-1_Shallow_6	non-Rad	Chromium	7440-47-3	ug/kg	7,400	18,500	No	320,000	No
118-B-1 Shallow 6	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	15,700	No	110,000	No
118-B-1 Shallow 6	non-Rad	Copper	7440-50-8	ug/kg	16,900	22,000	No	61,000	No
118-B-1 Shallow 6	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No	6.81E+07	No
118-B-1 Shallow 6	non-Rad	Lead	7439-92-1	ug/kg	5,100	10,200	No	74,100	No
118-B-1 Shallow 6	non-Rad	Manganese	7439-96-5	ug/kg	322,000	512,000	No	1.11E+06	No
118-B-1_Shallow_6	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
118-B-1_Shallow_6	non-Rad	Nickel	7440-02-0	ug/kg	11,500	19,100	No	200,000	No
118-B-1 Shallow 6	non-Rad	Total U Isotopes	Total_U_Isotopes	ug/kg	2,250	3,210	No	4,042	No
118-B-1 Shallow 6	non-Rad	Vanadium	7440-62-2	ug/kg	49,100	85,100	No	140,000	No
118-B-1 Shallow 6	non-Rad	Zinc	7440-66-6	ug/kg	41,200	67,800	No	366,000	No
118-B-1 Shallow 6	Rad	Cesium-137	10045-97-3	pCi/g	0.16	1.1	No	1.6	No
118-B-1_Shallow_6	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No	1.5	No
118-B-1 Shallow 6	Rad	Uranium-238	U-238	pCi/g	0.76	1.1	No	1.2	No
118-B-1_Shallow_7	non-Rad	Aluminum	7429-90-5	ug/kg	6.09E+06	1.18E+07	No	2.88E+07	No
118-B-1 Shallow_7	non-Rad	Arsenic	7440-38-2	ug/kg	3,800	20,000	No	27,700	No
118-B-1 Shallow 7	non-Rad	Barium	7440-39-3	ug/kg	145,000	132,000	Yes	480,000	No
118-B-1_Shallow_7	non-Rad	Beryllium	7440-41-7	ug/kg	310	1,510	No	10,000	No

	Analyte		Site Decision Units in the 100-B		Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
118-B-1_Shallow_7	non-Rad	Boron	7440-42-8	ug/kg	18,100	3,890	Yes	5,860	Yes
118-8-1_Shallow_7	non-Rad	Chromium	7440-47-3	ug/kg	9,500	18,500	No	320,000	No
118-B-1 Shallow 7	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No	110,000	No
118-B-1 Shallow 7	non-Rad	Copper	7440-50-8	ug/kg	25,700	22,000	Yes	61,000	No
118-B-1_Shallow_7	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	3.26E+07	No	6.81E+07	No
118-B-1_Shallow_7	non-Rad	Lead	7439-92-1	ug/kg	12,900	10,200	Yes	74,100	No
118-B-1 Shallow 7	non-Rad	Manganese	7439-96-5	ug/kg	340,000	512,000	No	1.11E+06	No
118-B-1 Shallow 7	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
118-B-1 Shallow 7	non-Rad	Molybdenum	7439-98-7	ug/kg	2,100	470	Yes	3,170	No
118-B-1 Shallow_7	non-Rad	Nickel	7440-02-0	ug/kg	10,700	19,100	No	200,000	No
118-B-1_Shallow_7	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	2,170	3,210	No	4,042	No
118-B-1 Shallow 7	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	85,100	No	140,000	No
118-B-1_Shallow_7	non-Rad	Zinc	7440-66-6	ug/kg	48,700	67,800	No	366,000	No
118-B-1_Shallow_7	Rad	Cesium-137	10045-97-3	pCi/g	0.58	1.1	No	1.6	No
118-B-1_Shallow_7	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	1.1	No	1.5	No
118-B-1_Shallow_7	Rad	Uranium-238	U-238	pCi/g	0.73	1.1	No	1.2	No
118-B-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.01E+07	1.18E+07	No	2.88E+07	No
118-B-1 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,000	20,000	No	27,700	No
118-B-1 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	261,000	132,000	Yes	480,000	No
118-B-1 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	580	1,510	No	10,000	No
118-B-1 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	24,500	3,890	Yes	5,860	Yes
118-B-1 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	280	563	No	2,980	No
118-B-1 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,400	18,500	No	320,000	No
118-B-1 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,300	15,700	No	110,000	No
118-B-1 Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	28,000	22,000	Yes	61,000	No
118-B-1 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.43E+07	3.26E+07	No	6.81E+07	No
118-B-1 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	34,300	10,200	Yes	74,100	No
118-B-1 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	421,000	512,000	No	1.11E+06	No
118-B-1 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	14,500	13	Yes	29	Yes
118-B-1 Shallow Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	810	470	Yes	3,170	No
118-B-1 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	19,100	No	200,000	No
118-B-1 Shallow Focused	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	1,679	3,210	No	4,042	No
118-B-1 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	59,900	85,100	No	140,000	No
118-B-1 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	65,100	67,800	No	366,000	No
118-B-1 Shallow Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.35	1.1	No	1.6	No
118-B-1 Shallow Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.16	0.0084	Yes	0.039	Yes
118-B-1 Shallow Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No	1.5	No
118-B-1 Shallow Focused	Rad	Uranjum-238	U-238	pCi/g	0.56	1.1	No	1.2	No
118-B-10 Shallow	Rad	Cobait-60	10198-40-0	pCi/g	0.46	0.0084	Yes	0.039	Yes
118-B-10 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,500	20,000	No	27,700	No
118-B-10 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	127,000	132,000	No	480,000	No
118-B-10 Shallow Focused	non-Rad	Cadmium	7440-43-9	ug/kg	50	563	No	2,980	No
118-B-10 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,400	18,500	No	320,000	No
118-B-10 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	16,200	10,200	Yes	74,100	No
118-B-10 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	230	13	Yes	29	Yes
118-B-3 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,500	18,500	No	320,000	No
118-B-3 Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,200	10,200	No	74,100	No
118-B-3 Shallow	Rad	Cesium-137	10045-97-3	pCl/g	0.13	1.1	No	1.6	No
118-B-3 Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.086	0.0084	Yes	0.039	Yes
118-B-3 Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.18	0.033	Yes	0.079	Yes
118-B-3 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No

	Analyte		ecision Units in the 100-		Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
118-B-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	120,000	132,000	No	480,000	No
118-B-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	435	563	No	2,980	No
118-8-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,300	18,500	No	320,000	No
118-8-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	43,900	10,200	Yes	74,100	No
118-B-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	13	Yes	29	Yes
118-B-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.83	1.1	No	1.6	No
118-B-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.17	0.0084	Yes	0.039	Yes
118-B-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.32	1.1	No	1.6	No
118-B-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.052	1.1	No	1.6	No
118-B-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	20,000	No	27,700	No
118-B-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	47,400	132,000	No	480,000	No
118-B-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,600	18,500	No	320,000	No
118-B-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	10,200	No	74,100	No
118-B-6_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,100	10,200	No	74,100	No
118-B-6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,700	10,200	No	74,100	No
118-B-6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	80	13	Yes	29	Yes
118-B-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,000	20,000	No	27,700	No
118-B-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	55,100	132,000	No	480,000	No
118-B-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	280	563	No	2,980	No
118-B-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,300	18,500	No	320,000	No
118-B-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	22,900	10,200	Yes	74,100	No
118-B-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	110	13	Yes	29	Yes
118-B-7_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	580	780	No	840	No
118-B-7_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	720	167	Yes	273	Yes
118-B-9 Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.59E+06	1.18E+07	No	2.88E+07	No
118-B-9_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	695	130	Yes	385	Yes
118-B-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,900	20,000	No	27,700	No
118-B-9_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	141,000	132,000	Yes	480,000	No
118-B-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	177	1,510	No	10,000	No
118-B-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	9,700	3,890	Yes	5,860	Yes
118-B-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	435	563	No	2,980	No
118-B-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,700	18,500	No	320,000	No
118-B-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,500	15,700	No	110,000	No
118-B-9_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,500	22,000	No	61,000	No
118-B-9_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.42E+07	3.26E+07	No	6.81E+07	No
118-B-9_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	26,900	10,200	Yes	74,100	No
118-B-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	354,000	512,000	No	1.11E+06	No
118-B-9_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	225	13	Yes	29	Yes
118-B-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	400	470	No	3,170	No
118-B-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,800	19,100	No	200,000	No
118-B-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	71,600	85,100	No	140,000	No
118-B-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	250,000	67,800	Yes	366,000	No
118-C-1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.57E+06	1.18E+07	No	2.88E+07	No
118-C-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No	27,700	No
118-C-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	56,000	132,000	No	480,000	No
118-C-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	880	1,510	No	10,000	No
118-C-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,100	3,890	No	5,860	No
118-C-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	8,600	18,500	No	320,000	No
118-C-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	15,700	No	110,000	No
118-C-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14,700	22,000	No	61,000	No
118-C-1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.91E+07	3.26E+07	No	6.81E+07	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background Values Is EPC > Maximu Lognormal 90th Percentile Is EPC > **Background Valu Background?** CAS No. Concentration **Background Value** Background? Waste Site/Decision Unit Group **Analyte Name** 10,200 74,100 No 7439-92-1 4,900 118-C-1_Shallow_1 non-Rad ug/kg 1.11E+06 No 118-C-1_Shallow_1 non-Rad Manganese 7439-96-5 ug/kg 362,000 512,000 No 7440-02-0 10,200 19,100 No 200,000 No non-Rad ug/kg 118-C-1_Shallow_1 4,042 No Total U Isotopes Total U isotopes 2,191 3,210 No non-Rad ug/kg 118-C-1_Shallow_1 140.000 No 7440-62-2 41,600 85,100 No 118-C-1_Shallow_1 non-Rad Vanadium ug/kg 366,000 No 7440-66-6 39,100 67,800 No 118-C-1_Shallow_1 non-Rad ug/kg No 118-C-1_Shallow_1 Rad Cesium-137 10045-97-3 pCi/g 0.30 1.1 No 1.6 Rad Uranium-233/234 U-233/234 pCi/g 0.53 1.1 No 1.5 No 118-C-1_Shallow_1 15117-96-1 0.027 0.11 No 0.39 No Rad Uranium-235 pCi/g 118-C-1_Shallow_1 0.74 1.1 No 1.2 No Rad Uranium-238 U-238 pCi/g 118-C-1_Shallow_1 2.88E+07 4.69E+06 1.18E+07 No No non-Rad Aluminum 7429-90-5 ug/kg 118-C-1_Shallow_2 27,700 20,000 No 118-C-1 Shallow 2 non-Rad Arsenic 7440-38-2 ug/kg 2,800 non-Rad Barium 7440-39-3 ug/kg 54,500 132,000 No 480,000 No 118-C-1_Shallow_2 1.510 10,000 No non-Rad Beryllium 7440-41-7 ug/kg 930 118-C-1_Shallow_2 7440-42-8 2,200 3,890 No 5,860 No non-Rad ug/kg 118-C-1_Shallow_2 Boron non-Rad 7440-47-3 6,200 18,500 No 320,000 No ug/kg 118-C-1_Shallow_2 Chromium 15,700 110,000 No 7440-48-4 7,700 No 118-C-1_Shallow_2 non-Rad Cobalt ug/kg 22,000 61,000 No non-Rad 7440-50-8 ug/kg 13,400 No 118-C-1_Shallow_2 Copper 7439-89-6 1.90E+07 3.26E+07 No 6.81E+07 No non-Rad ug/kg 118-C-1_Shallow_2 Iron 74,100 No 7439-92-1 4,300 10.200 No 118-C-1_Shallow_2 non-Rad Lead ug/kg 1.11E+06 No 7439-96-5 359,000 512,000 No 118-C-1_Shallow_2 non-Rad Manganese ug/kg 10,400 19,100 No 200,000 No 7440-02-0 118-C-1_Shallow_2 non-Rad Nickel ug/kg 46,300 85,100 No 140,000 No 118-C-1 Shallow 2 pon-Rad Vanadium 7440-62-2 ug/kg 366,000 7440-66-6 40,200 67,800 No No 118-C-1 Shallow 2 non-Rad Zinc ug/kg No 1.6 No 10045-97-3 0.15 1.1 118-C-1 Shallow 2 Rad Cesium-137 pCi/g 0.039 0.0084 Yes Yes 10198-40-0 1.5 118-C-1 Shallow 2 Rad Cobalt-60 pCi/g 2.88E+07 5.54E+06 1.18E+07 No No 7429-90-5 118-C-1 Shallow 3 non-Rad Aluminum ug/kg 20,000 No 27,700 No 118-C-1 Shallow 3 non-Rad Arsenic 7440-38-2 ug/kg 5,800 480,000 7440-39-3 78,400 132,000 No No 118-C-1 Shallow 3 non-Rad Barium ug/kg 7440-41-7 No 10,000 No non-Rad Beryllium ug/kg 700 1.510 118-C-1_Shallow_3 No 5,860 No 7440-42-8 3,200 3.890 118-C-1 Shallow 3 non-Rad Boron ug/kg 7440-43-9 No 2,980 No 120 563 118-C-1 Shallow 3 non-Rad Cadmium ug/kg 320.000 No 7440-47-3 9,200 18.500 No 118-C-1 Shallow 3 non-Rad Chromium ug/kg 110,000 No non-Rad Cobalt 7440-48-4 8,900 15,700 No 118-C-1_Shallow_3 ug/kg 45,200 22,000 Yes 61.000 No 118-C-1_Shallow_3 non-Rad Copper 7440-50-8 ug/kg 2.23E+07 3.26E+07 6.81E+07 No No 118-C-1 Shallow 3 non-Rad Iron 7439-89-6 ug/kg 74,100 No 10,200 non-Rad 7439-92-1 23,100 Yes 118-C-1 Shallow 3 ug/kg 1.11E+06 512,000 No non-Rad 7439-96-5 357,000 No 118-C-1_Shallow_3 Manganese ug/kg 29 118-C-1_Shallow_3 non-Rad Mercury 7439-97-6 ug/kg 50 13 Yes Yes 3,170 Molybdenum 7439-98-7 4,500 470 Yes Yes 118-C-1_Shallow_3 non-Rad ug/kg 200,000 19,100 No 7440-02-0 12,700 No 118-C-1_Shallow_3 non-Rad Nickel ug/kg 4,042 No non-Rad Total U Isotopes Total_U_Isotopes ug/kg 2,456 3,210 No 118-C-1_Shallow_3 140,000 No 118-C-1_Shallow_3 non-Rad Vanadium 7440-62-2 ug/kg 53,200 85.100 No 366,000 67.800 Yes No 118-C-1 Shallow 3 non-Rad 7inc 7440-66-6 ug/kg 77,100 Rad Cesium-137 10045-97-3 pCi/g 0.96 1.1 No 1.6 No 118-C-1 Shallow 3 10198-40-0 0.042 0.0084 Yes 0.039 Yes Rad Cobalt-60 pCi/g 118-C-1_Shallow_3 0.37 SR-RAD 0.28 0.18 Yes No 118-C-1_Shallow_3 Rad Total beta radiostrontium pCi/g 1.5 U-233/234 1.1 1.1 No No 118-C-1_Shallow_3 Rad Uranium-233/234 pCi/g 1.2 0.83 1.1 No No 118-C-1_Shallow_3 Rad Uranium-238 U-238 pCi/g 118-C-1 Shallow 4 non-Rad Aluminum 7429-90-5 ug/kg 5.10E+06 1.18E+07 No 2.88E+07 No

7440-38-2

ug/kg

2,400

20,000

No

27,700

No

non-Rad

118-C-1 Shallow 4

Arsenic

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background	Values
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Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	is EPC > Background?	Maximum Background Value	is EPC > Maximum Background?
118-C-1 Shallow 4	non-Rad	Barium	7440-39-3	ug/kg	286,000	132,000	Yes	480,000	No
118-C-1 Shallow 4	non-Rad	Beryllium	7440-41-7	ug/kg	580	1,510	No	10,000	No
118-C-1 Shallow 4	non-Rad	Boron	7440-42-8	ug/kg	4,900	3,890	Yes	5,860	No
118-C-1 Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	6,600	18,500	No	320,000	No
118-C-1 Shallow 4	non-Rad	Cobalt	7440-48-4	ug/kg	8,800	15,700	No	110,000	No
118-C-1 Shallow 4	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No	61,000	No
118-C-1 Shallow 4	non-Rad	Iron	7439-89-6	ug/kg	2.32E+07	3.26E+07	No	6.81E+07	No
118-C-1 Shallow 4	non-Rad	Lead	7439-92-1	ug/kg	5,000	10,200	No	74,100	No
118-C-1 Shallow 4	non-Rad	Manganese	7439-96-5	ug/kg	350,000	512,000	No	1.11E+06	No
118-C-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	10,100	19,100	No	200,000	No
118-C-1_Shallow_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,997	3,210	No	4,042	No
118-C-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	55,400	85,100	No	140,000	No
118-C-1 Shallow 4	non-Rad	Zinc	7440-66-6	ug/kg	42,200	67,800	No	366,000	No
118-C-1 Shallow 4	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.1	Yes	1.6	No
118-C-1 Shallow 4	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No	1.5	No
118-C-1 Shallow 4	Rad	Uranium-238	U-238	pCi/g	0.67	1.1	No	1.2	No
118-C-1 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.52E+06	1.18E+07	No	2.88E+07	No
118-C-1 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,400	20,000	No	27,700	No
118-C-1 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg	80,200	132,000	No	480,000	No
118-C-1 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	340	1,510	No	10,000	No
118-C-1 Shallow Focused	non-Rad	Boron	7440-42-8	ug/kg	3,200	3,890	No	5,860	No
118-C-1 Shallow Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,200	18,500	No	320,000	No
118-C-1 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,500	15,700	No	110,000	No
118-C-1 Shallow Focused	non-Rad	Copper	7440-50-8	ug/kg	23,300	22,000	Yes	61,000	No
118-C-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.19E+07	3.26E+07	No	6.81E+07	No
118-C-1 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	7,200	10,200	No	74,100	No
118-C-1 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	446,000	512,000	No	1.11E+06	No
118-C-1 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes	29	Yes
118-C-1 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,100	19,100	No	200,000	No
118-C-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	1,438	3,210	No	4,042	No
118-C-1 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	85,100	No	140,000	No
118-C-1 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,100	67,800	No	366,000	No
118-C-1 Shallow Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.55	1.1	No	1.6	No
118-C-1 Shallow Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	0.025	Yes	0.033	Yes
118-C-1_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.68	1.1	No	1.5	No
118-C-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.48	1.1	No	1.2	No
118-C-2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.13	1.1	No	1.6	No
118-C-3:2_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	120,000	10,200	Yes	74,100	Yes
118-C-3:2 Deep Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,110	3,210	No	4,042	No
118-C-3:2_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	171	1.1	Yes	1.6	Yes
118-C-3:2 Deep Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	0.0084	Yes	0.039	Yes
118-C-3:2 Deep Focused	Rad	Europium-154	15585-10-1	pCi/g	1.5	0.033	Yes	0.079	Yes
118-C-3:2 Deep Focused	Rad	Plutonium-238	13981-16-3	pCi/g	0.26	0.0038	Yes	0.019	Yes
118-C-3:2 Deep Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	10	0.025	Yes	0.033	Yes
118-C-3:2 Deep Focused	- Rad	Total beta radiostrontium	SR-RAD	pCi/g	38	0.18	Yes	0.37	Yes
118-C-3:2 Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.81	1.1	No	1.5	No
118-C-3:2 Deep Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.050	0.11	No	0.39	No
118-C-3:2 Deep Focused	Rad	Uranium-238	U-238	pCi/g	0.70	1.1	No	1.2	No
118-C-3:3 Shallow Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.58E+06	1.18E+07	No	2.88E+07	No
118-C-3:3 Shallow Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,400	20,000	No	27,700	No
118-C-3:3 Shallow Focused	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background Value	Table 7-3	Comparison of FPCs for Waste	Site Decision Units in the 100-l	BC Source Oll to Hanford Site Background Values
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	Analyte	Table 7-3. Comparison of EPCs for Waste Site D			Exposure Point	The second secon	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
118-C-3:3 Shallow Focused	non-Rad	Beryllium	7440-41-7	ug/kg	690	1,510	No	10,000	No
118-C-3:3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No	5,860	No
118-C-3:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,400	18,500	No	320,000	No
118-C-3:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,400	15,700	No	110,000	No
118-C-3:3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	38,300	22,000	Yes	61,000	No
118-C-3:3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.26E+07	No	6.81E+07	No
118-C-3:3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,900	10,200	No	74,100	No
118-C-3:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	512,000	No	1.11E+06	No
118-C-3:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	800	13	Yes	29	Yes
118-C-3:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,400	19,100	No	200,000	No
118-C-3:3_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	370	780	No	840	No
118-C-3:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_isotopes	ug/kg	2,025	3,210	No	4,042	No
118-C-3:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,700	85,100	No	140,000	No
118-C-3:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,200	67,800	No	366,000	No
118-C-3:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	1.1	No	1.5	No
118-C-3:3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.051	0.11	No	0.39	No
118-C-3:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	1.1	No	1.2	No
118-C-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No	27,700	No
118-C-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	44,800	132,000	No	480,000	No
118-C-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,800	18,500	No	320,000	No
118-C-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,100	10,200	Yes	74,100	No
118-C-4_Shallow	non-Rad	Total_U_isotopes	Total_U_isotopes	ug/kg	1,795	3,210	No	4,042	No
118-C-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No	1.5	No
118-C-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	1.1	No	1.2	No
120-B-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.70E+06	1.18E+07	No	2.88E+07	No
120-B-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,000	20,000	No	27,700	No
120-B-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	135,000	132,000	Yes	480,000	No
120-B-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	1,510	No	10,000	No
120-B-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	8,100	3,890	Yes	5,860	Yes
120-B-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	273,000	18,500	Yes	320,000	No
120-B-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,100	15,700	No	110,000	No
120-B-1_Shallow_Focused	non-Rad	Соррег	7440-50-8	ug/kg	19,800	22,000	No	61,000	No
120-B-1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	3,800	2,810	Yes	73,300	No
120-B-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.32E+07	3.26E+07	No	6.81E+07	No
120-B-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	15,400	10,200	Yes	74,100	No
120-B-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	336,000	512,000	No	1.11E+06	No
120-B-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	90	13	Yes	29	Yes
120-B-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	470	Yes	3,170	No
120-B-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,800	19,100	No	200,000	No
120-B-1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	230	167	Yes	273	No
120-B-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,900	85,100	No	140,000	No
120-B-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	72,200	67,800	Yes	366,000	No
126-B-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
126-B-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
126-B-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg		1,510	No	10,000	No
126-B-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg		3,890	Yes	5,860	No
126-B-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg		563	No	2,980	No
126-B-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
126-B-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg		15,700	No	110,000	No
126-B-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg		22,000	Yes	61,000	No
126-B-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,968	10,200	No	74,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-8C Source OU to Hanford Site Background Values

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
126-B-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	472,105	512,000	No	1.11E+06	No
126-B-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	28	13	Yes	29	No
126-B-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,227	470	Yes	3,170	No
126-B-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	15,632	19,100	No	200,000	No
126-B-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67,526	85,100	No	140,000	No
126-B-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,252	67,800	No	366,000	No
128-B-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,918	20,000	No	27,700	No
128-B-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	71,594	132,000	No	480,000	No
128-B-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	941	1,510	No	10,000	No
128-B-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,750	3,890	No	5,860	No
128-B-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	190	563	No	2,980	No
128-B-2 Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,448	18,500	No	320,000	No
128-B-2 Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,253	15,700	No	110,000	No
128-B-2 Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,009	22,000	No	61,000	No
128-B-2 Shallow	non-Rad	Lead	7439-92-1	ug/kg	32,438	10,200	Yes	74,100	No
128-B-2 Shallow	non-Rad	Manganese	7439-96-5	ug/kg	357,286	512,000	No	1.11E+06	No
128-B-2 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	13	Yes	29	No
128-B-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,077	470	Yes	3,170	No
128-B-2 Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,421	19,100	No	200,000	No
128-B-2 Shallow	non-Rad	Total U Isotopes	Total U Isotopes	ug/kg	2,006	3.210	No	4,042	No
128-B-2 Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,088	85,100	No	140,000	No
128-B-2 Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,328	67,800	No	366,000	No
128-B-2 Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.31	1.1	No	1.6	No
128-B-2 Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.1	No	1.5	No
128-B-2 Shallow	Rad	Uranium-238	U-238	pCi/g	0.68	1.1	No	1.2	No
128-B-3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.53E+06	1.18E+07	No	2.88E+07	No
128-B-3 Shallow 1	non-Rad	Arsenic	7440-38-2	ug/kg	3,375	20,000	No	27,700	No
128-B-3 Shallow 1	non-Rad	Barium	7440-39-3	ug/kg	87,728	132,000	No	480,000	No
128-B-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	351	1,510	No	10,000	No
128-B-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,753	3,890	No	5.860	No
128-B-3 Shallow 1	non-Rad	Chromium	7440-47-3	ug/kg	14,012	18,500	No	320,000	No
128-B-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,532	15,700	No	110,000	No
128-B-3 Shallow 1	non-Rad	Copper	7440-50-8	ug/kg	16,975	22,000	No	61,000	No
128-B-3 Shallow 1	non-Rad	Iron	7439-89-6	ug/kg	1.59E+07	3.26E+07	No	6.81E+07	No
128-B-3 Shallow 1	non-Rad	Lead	7439-92-1	ug/kg	5,471	10,200	No	74,100	No
128-B-3 Shallow 1	non-Rad	Manganese	7439-96-5	ug/kg	310,456	512,000	No	1.11E+06	No
128-B-3 Shallow 1	non-Rad	Mercury	7439-97-6	ug/kg	63	13	Yes	29	Yes
128-B-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,472	19,100	No	200,000	No
128-B-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	34,972	85,100	No	140,000	No
128-B-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	40,336	67,800	No	366,000	No
128-B-3 Shallow 2	non-Rad	Aluminum	7429-90-5	ug/kg	8.79E+06	1.18E+07	No	2.88E+07	No
128-B-3 Shallow 2	non-Rad	Arsenic	7440-38-2	ug/kg	5,473	20,000	No	27,700	No
128-B-3 Shallow 2	non-Rad	Barium	7440-39-3	ug/kg	126,504	132,000	No	480,000	No
128-B-3 Shallow 2	non-Rad	Beryllium	7440-41-7	ug/kg	450	1,510	No	10,000	No
128-B-3 Shallow 2	non-Rad	Boron	7440-42-8	ug/kg	6,364	3,890	Yes	5,860	Yes
128-B-3 Shallow 2	non-Rad	Cadmium	7440-43-9	ug/kg	520	563	No	2,980	No
128-B-3 Shallow 2	non-Rad	Chromium	7440-47-3	ug/kg	36,702	18,500	Yes	320,000	No
128-B-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,114	15,700	No	110,000	No
128-B-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	38,045	22,000	Yes	61,000	No
128-B-3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No	6.81E+07	No
128-B-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg		10,200	Yes	74,100	No

Table 7-3. Comparison of EPCs for Waste Site	Decision Units in the 100-8C Source	e OU to Hanford Site Background Values

	Analyte	Table 7-3. Comparison of EPCs for Waste Si			Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
128-B-3 Shallow 2	non-Rad	Manganese	7439-96-5	ug/kg	398,092	512,000	No	1.11E+06	No
128-B-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	72	13	Yes	29	Yes
128-B-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	870	470	Yes	3,170	No
128-B-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	17,711	19,100	No	200,000	No
128-B-3_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	241	167	Yes	273	No
128-B-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,172	85,100	No	140,000	No
128-B-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	109,940	67,800	Yes	366,000	No
128-B-3_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	8.03E+06	1.18E+07	No	2.88E+07	No
128-B-3_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,947	20,000	No	27,700	No
128-B-3_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	101,772	132,000	No	480,000	No
128-B-3_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	425	1,510	No	10,000	No
128-B-3_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,624	3,890	No	5,860	No
128-B-3_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	590	563	Yes	2,980	No
128-B-3_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	15,508	18,500	No	320,000	No
128-B-3_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,273	15,700	No	110,000	No
128-B-3_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18,016	22,000	No	61,000	No
128-B-3_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No	6.81E+07	No
128-B-3_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	8,356	10,200	No	74,100	No
128-B-3_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	380,095	512,000	No	1.11E+06	No
128-B-3_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	48	13	Yes	29	Yes
128-B-3_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	4,700	470	Yes	3,170	Yes
128-B-3_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	13,571	19,100	No	200,000	No
128-B-3_Shallow_3	non-Rad	Silver	7440-22-4	ug/kg	300	167	Yes	273	Yes
128-B-3_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	41,734	85,100	No	140,000	No
128-B-3_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	49,543	67,800	No	366,000	No
128-C-1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	858	130	Yes	385	Yes
128-C-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,270	20,000	No	27,700	No
128-C-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,255	132,000	No	480,000	No
128-C-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	784	1,510	No	10,000	No
128-C-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	9,818	3,890	Yes	5,860	Yes
128-C-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	990	563	Yes	2,980	No
128-C-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,242	18,500	No	320,000	No
128-C-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,402	15,700	No	110,000	No
128-C-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	48,008	22,000	Yes	61,000	No
128-C-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	30,352	10,200	Yes	74,100	No
128-C-1_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	6,737	13,300	No	19,200	No
128-C-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,815	512,000	No	1.11E+06	No
128-C-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	50	13	Yes	29	Yes
128-C-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,900	470	Yes	3,170	No
128-C-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,617	19,100	No	200,000	No
128-C-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,300	780	Yes	840	Yes
128-C-1_Shallow	non-Rad	5ilver	7440-22-4	ug/kg	6,600	167	Yes	273	Yes
128-C-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,675	85,100	No	140,000	No
128-C-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	70,414	67,800	Yes	366,000	No
128-C-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	6,100	20,000	No	27,700	No
128-C-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	94,710	132,000	No	480,000	No
128-C-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,797	563	Yes	2,980	No
28-C-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	19,600	18,500	Yes	320,000	No
28-C-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	61,300	10,200	Yes	74,100	No
28-C-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	200	13	Yes	29	Yes
128-C-1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	150	167	No	273	No

	Analyte				Exposure Point	Lognormal 90th Percentile	is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
1607-B1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	1.18E+07	No	2.88E+07	No
1607-B1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,200	20,000	No	27,700	No
1607-B1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	138,000	132,000	Yes	480,000	No
1607-B1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	1,510	No	10,000	No
1607-B1 Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	3,890	No	5,860	No
1607-B1 Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,600	18,500	No	320,000	No
1607-B1 Shallow Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,900	15,700	No	110,000	No
1607-B1 Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	20,200	22,000	No	61,000	No
1607-B1 Shallow Focused	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	3.26E+07	No	6.81E+07	No
1607-B1 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	8,600	10,200	No	74,100	No
1607-B1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	512,000	No	1.11E+06	No
1607-B1 Shallow Focused	non-Rad	Mercury	7439-97-6	ug/kg	230	13	Yes	29	Yes
1607-B1 Shallow Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	570	470	Yes	3,170	No
1607-B1 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,300	19,100	No	200,000	No
1607-B1 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,200	85,100	No	140,000	No
1607-B1 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	93,900	67,800	Yes	366,000	No
1607-B1 Shallow Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No	1.6	No
1607-B10 Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,500	20,000	No	27,700	No
1607-B10 Shallow	non-Rad	Barium	7440-39-3	ug/kg	82,400	132,000	No	480,000	No
1607-B10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	160	563	No	2,980	No
1607-B10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg		18,500	Yes	320,000	No
1607-B10 Shallow	non-Rad	Lead	7439-92-1	ug/kg	17,900	10,200	Yes	74,100	No
1607-B10 Shallow	non-Rad	Mercury	7439-97-6	ug/kg	380	13	Yes	29	Yes
1607-B10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.054	1.1	No	1.6	No
1607-B11_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
1607-B11 Shallow	non-Rad	Barium	7440-39-3	ug/kg	76,500	132,000	No	480,000	No
1607-B11_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,000	18,500	No	320,000	No
1607-B11 Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,300	10,200	Yes	74,100	No
1607-B11_Shallow	non-Rad	Mercury	7439-97-6	ug/kg		13	Yes	29	Yes
1607-B2:1 Shallow	non-Rad	Antimony	7440-36-0	ug/kg		130	Yes	385	Yes
1607-B2:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg		20,000	No	27,700	No
1607-B2:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	386,965	132.000	Yes	480.000	No
1607-B2:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg		1,510	No	10,000	No
1607-B2:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg		3,890	Yes	5,860	Yes
1607-B2:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	128	563	No	2,980	No
1607-B2:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,106	18,500	Yes	320,000	No
1607-82:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg		15,700	No	110,000	No
1607-B2:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	30,171	22,000	Yes	61,000	No
1607-B2:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,814	10,200	No	74,100	No
	non-Rad	Manganese	7439-96-5	ug/kg	577,831	512,000	Yes	1.11E+06	No
1607-B2:1_Shallow	non-Rad	Mercury	7439-97-6		20	13	Yes	29	No
1607-B2:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg ug/kg		470	Yes	3.170	No
1607-B2:1_Shallow	non-Rad	Nickel	7440-02-0	_	20,845	19,100	Yes	200,000	No
1607-B2:1_Shallow	non-Rad	Silver	7440-02-0	ug/kg	140	19,100	No	273	No
1607-B2:1_Shallow				ug/kg					
1607-B2:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,015	85,100	No	140,000	No
1607-B2:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	67,465	67,800	No No	366,000	No
1607-B2:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.99E+06	1.18E+07 130		2.88E+07 385	No
1607-B2:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	510		Yes		Yes
1607-B2:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,098	20,000	No	27,700	No
1607-B2:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg		132,000	No	480,000	No
1607-B2:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	444	1,510	No	10,000	No

	Analyte				Exposure Point	Lognormal 90th Percentile	Is EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
1607-B2:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,666	3,890	Yes	5,860	No
1607-B2:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	249	563	No	2,980	No
1607-B2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,679	18,500	No	320,000	No
1607-B2:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,488	15,700	No	110,000	No
1607-B2:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	51,480	22,000	Yes	61,000	No
1607-B2:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.26E+07	No	6.81E+07	No
1607-B2:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,463	10,200	Yes	74,100	No
1607-B2:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	8,515	13,300	No	19,200	No
1607-B2:2_Shailow	non-Rad	Manganese	7439-96-5	ug/kg	367,714	512,000	No	1.11E+06	No
1607-B2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	13	Yes	29	Yes
1607-B2:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	395	470	No	3,170	No
1607-B2:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,682	19,100	No	200,000	No
1607-B2:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	46,182	85,100	No	140,000	No
1607-B2:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,128	67,800	No	366,000	No
1607-B2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	1.1	No	1.6	No
1607-B2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.90	0.18	Yes	0.37	Yes
1607-B7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	20,000	No	27,700	No
1607-B7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,800	132,000	No	480,000	No
1607-B7_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	236	563	No	2,980	No
1607-B7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,300	18,500	No	320,000	No
1607-B7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	43,000	10,200	Yes	74,100	No
1607-B7_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	699	780	No	840	No
1607-B7_Shallow	non-Rad	Silver	7440-22-4	ug/kg	96	167	No	273	No
1607-B8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,100	20,000	No	27,700	No
1607-B8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,300	132,000	No	480,000	No
1607-B8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	102	563	No	2,980	No
1607-B8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,500	18,500	No	320,000	No
1607-B8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	166,000	10,200	Yes	74,100	Yes
1607-B8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	103	13	Yes	29	Yes
1607-B8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	1.1	No	1.6	No
1607-B9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,511	20,000	No	27,700	No
1607-B9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,408	132,000	No	480,000	No
1607-B9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	479	563	No	2,980	No
1607-89_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,970	18,500	No	320,000	No
1607-89_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,831	10,200	Yes	74,100	No
1607-B9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	68	13	Yes	29	Yes
1607-89_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	435	780	No	840	No
600-232_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,048	20,000	No	27,700	No
600-232_Shallow	non-Rad	Barium	7440-39-3	ug/kg	58,814	132,000	No	480,000	No
600-232_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	78	563	No	2,980	No
600-232_Shallow	non-Rad	Chromium	7440-47-3	ug/kg		18,500	No	320,000	No
600-232_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,394	10,200	No	74,100	No
600-232_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes	29	No
600-233_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	51,200	132,000	No	480,000	No
600-233_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg		1,510	No	10,000	No
600-233_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No	5,860	No
600-233_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	280	563	No	2,980	No
600-233_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	18,500	No	320,000	No
600-233_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,300	15,700	No	110,000	No
600-233_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	11,500	22,000	No	61,000	No
600-233 Shallow Focused	non-Rad	Lead	7439-92-1	ug/kg	4,900	10,200	No	74,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in the 100-BC Source OU to Hanford Site Background Values

	Analyte				Exposure Point	Lognormal 90th Percentile	ls EPC >	Maximum	Is EPC > Maximum
Waste Site/Decision Unit	Group	Analyte Name	CAS No.	Units	Concentration	Background Value	Background?	Background Value	Background?
600-233 Shallow Focused	non-Rad	Manganese	7439-96-5	ug/kg	270,000	512,000	No	1.11E+06	No
600-233 Shallow Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,300	19,100	No	200,000	No
600-233 Shallow Focused	non-Rad	Selenium	7782-49-2	ug/kg	3,000	780	Yes	840	Yes
600-233 Shallow Focused	non-Rad	Vanadium	7440-62-2	ug/kg	37,000	85,100	No	140,000	No
600-233 Shallow Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,800	67,800	No	366,000	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCl/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{pC\ell}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (μg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCl/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-1 Shallow 1	Bis(2-ethylhexyl) phthalate	μg/kg	45	_c	59	_c	(MB) 48 01 hc/8)	330	(ME) VE OF DOTAE)	Selected GWP 33L Dasis	Groundwaterr
100-B-1 Shallow 1	Diethylphthalate	μg/kg	48	63,829	59	1,089	_	330	1,089	5caled GWP SSL	No
100-B-1 Shallow 1	Di-n-butylphthalate	μg/kg	24	88,471	59	1,510		330	1,510	Scaled GWP SSL	No
100-B-1_Shallow_2	4,4'-DDD (Dichlorodiphenyldichloroethane)	μg/kg	1.5	836,540	80	10,418		3.3	10,418	Scaled GWP SSL	No
100-B-1 Shallow 2	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	1.3	_c	80	_c		3.3	-	e	
100-B-1_Shallow_2	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	2.9	_c	80	c	-	3.3	-	c	
100-B-1 Shallow 2	Aldrin	μg/kg	1.1	9,878	80	123		1.7	0,123	Scaled GWP SSL	No
100-B-1_Shallow 2	Alpha-BHC	μg/kg	1.0	1.7	80	0.021		1.7	1.7	RDL	No
100-B-1 Shallow 2	Alpha-Chlordane	μg/kg	1.3	1.42E+06	80	17,697	-	17	17,697	Scaled GWP SSL	No
100-B-1 Shallow 2	Anthracene	μg/kg	92	4.27E+07	80	531,455		330	531,455	Scaled GWP SSL	No
100-B-1_Shallow_2	Aroclor-1254	μg/kg	33	_c	80	_c	-	17	-	_c	_
100-B-1 Shallow 2	Benzo(a)anthracene	μg/kg	120	c	80	_c	-	15		_c	
100-B-1_Shallow_2	Benzo(a)pyrene	μg/kg	30	_c	80	c		15		_c	
100-8-1_Shallow_2	Benzo(b)fluoranthene	μg/kg	\$5	_c	80	c		15		c	
	Benzo(k)fluoranthene			c		c					
100-B-1_Shallow_2		μg/kg	65	3.8	80	0.047	-	15	4.7		
100-B-1_Shallow_2	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	μg/kg	6.8		80		-	1.7	1.7	RDL	Yes
100-B-1_Shallow_2	Bis(2-ethylhexyl) phthalate	μg/kg	41	_c	80	_c		330		_c	
100-B-1_Shallow_2	Carbazole	μg/kg	33	537	80	6.7		330	330	RDL	No
100-B-1_Shallow_2	Chlordane	μg/kg	1.3	1.42E+06	80	17,697		1.7	17,697	Scaled GWP SSL	No
100-B-1_Shallow_2	Chrysene	μg/kg	150	*c	80	±°	-	100	-	c	
100-B-1_Shallow_2	Dibenzofuran Dieldrin	μg/kg	22	3,353 166	80	42		330	330	RDL	No
100-B-1_Shallow_2 100-B-1_Shallow_2		μg/kg	1.3 35	88,471	80 80	2.1 1,102	-	3.3 330	3.3 1,102	RDL Seeled CM/D SSI	No
100-B-1_Shallow_2 100-B-1 Shallow 2	Di-n-butylphthalate Endosulfan I	μg/kg μg/kg	1.3	7,192	80	90	-	330	0,090	Scaled GWP SSL Scaled GWP SSL	No No
100-B-1_Shallow_2	Endosulfan II	μg/kg μg/kg	1.5	7,192	80	90	-	3	0,090	Scaled GWP SSL	No
100-B-1 Shallow 2	Endrin	μg/kg	1.5	1,219	80	15		3	0,015	Scaled GWP SSL	No
100-B-1 Shallow 2	Fluoranthene	μg/kg	700	3.89E+08	80	4.84E+06		330	4,844,334	Scaled GWP SSL	No
100-B-1 Shallow 2	Fluorene	μg/kg	35	97,154	80	1,210		330	1,210	Scaled GWP SSL	No
100-B-1 Shallow 2	Gamma-BHC (Lindane)	μg/kg	1.2	3.8	80	0.047	-	1.7	1.7	RDL	No
100-B-1_Shallow_2	Heptachlor	μg/kg	5.5	8.7	80	0.11		2	2	RDL	Yes
100-B-1 Shallow 2	Heptachlor epoxide	μg/kg	1.4	_c	80	_c	-	2	-	c	
100-B-1_Shallow_2	Methoxychlor	μg/kg	5.6	_c	80	_c		20		_c	_
100-B-1 Shallow 2	Pyrene	μg/kg	750	3.89E+08	80	4.84E+06		330	4,844,334	Scaled GWP SSL	No
100-B-1 Shallow Focused	Bis(2-ethylhexyl) phthalate	μg/kg	103	c	38	_c	-	330	-	_c	
100-B-1 Shallow Focused	Total petroleum hydrocarbons	μg/kg	9,520	1.00E+06 ^d	38	1000000	-	-	1,000,000	_d	No
100-B-11 Shallow Focused	Antimony	μg/kg	1,400	1.19E+07	2.0	5.95E+06	130	600	5,948,913	Scaled GWP SSL	No No
100-B-11_Shallow_Focused	Boron	μg/kg		348,488	2.0	174,244	3,890	2,000	174,244	Scaled GWP SSL	No
100-B-11 Shallow Focused	Lead	μg/kg		540,400	2.0		10,200	5,000		C C	-
100-B-11_Shallow_Focused	Mercury	μg/kg	18	1.34E+07	2.0	6.72E+06	13	200	6,715,431	Scaled GWP SSL	No
100-B-11 Shallow Focused	Molybdenum	μg/kg	551	563,885	2.0	281,942	470	2,000	281,942	Scaled GWP SSL	No
100-B-11_Shallow_Focused	Total beta radiostrontium	pCi/g	0.25	2,121	2.0	1,060	0.18	1	1,060	Scaled GWP SSL	No
100-B-14:1_Deep_Focused	Carbon-14	pCi/g	275	_c	2.0	_c		2		_ c	-
100-B-14:1_Shallow	Hexavalent Chromium	μg/kg	336	6,000 ^e	45	6,000		1,000	6,000		No
100-B-14:2_Shallow 1	2-Methylnaphthalene	μg/kg	34	2,896	59	49		330	330	RDL	No
100-B-14:2 Shallow 1	Barium	μg/kg	256,706	3.89E+08	59	6.57E+06	132,000	2,000	6,570,946	Scaled GWP SSL	No
100-B-14:2 Shallow 1	Benzo(a)pyrene	μg/kg	21	_c	59	_c	-	15	-	c	-
100-B-14:2 Shallow 1	Benzo(b)fluoranthene	μg/kg		_c	59	c	_	15	_	° c	-
100-B-14:2 Shallow 1	Benzo(k)fluoranthene	μg/kg	22	_c	59		_	15	_	c c	
100-B-14:2 Shallow 1	beta-1.2.3.4.5.6-Hexachlorocyclohexane (beta-BHC)	μg/kg μg/kg	0.60	3.8	59	0.064		1.7	1.7	RDL	No
100-B-14:2_Shallow_1	Chrysene		22	5.6	59	U.004		100	-	, _c	
	Hexavalent Chromium	μg/kg									
100-B-14:2_Shallow_1		μg/kg		6,000°	59	6,000	- 12	1,000	6,000		No
100-B-14:2_Shallow_1	Mercury	μg/kg	36	1.34E+07	59	226,873	13	200	226,873	Scaled GWP SSL	No
100-B-14:2_Shallow_1	Molybdenum	μg/kg	685	563,885	59	9,525	470	2,000	9,525	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(1	With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width In Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (μg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-14:2 Shallow 1	Naphthalene	μg/kg	24	6,798	59	115	-	330	330	RDL	No
100-B-14:2_Shallow_1	Strontium	μg/kg	59,947	3.89E+08	59	6.57E+06	-	1,000	6,570,946	Scaled GWP SSL	No
100-B-14:2_Shallow_1	Total beta radiostrontium	pCi/g	0.31	2,121	59	36	0.18	1	0,036	Scaled GWP SSL	No
100-B-14:2_Shallow_2	4,4'-DDD (Dichlorodiphenyldichloroethane)	μg/kg	2.1	836,540	12	68,569		3.3	68,569	Scaled GWP SSL	No
100-B-14:2_Shallow_2	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	7.6	_с	12	c		3.3	-	_c	-
100-B-14:2_Shallow_2	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	6.7	c	12	c		3.3		_c	
100-B-14:2_Shallow_2	Acenaphthene	μg/kg	197	84,728	12	6,945		330	6,945	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Aldrin	μg/kg	2.4	9,878	12	810	-	1.7	0,810	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Anthracene	μg/kg	345	4.27E+07	12	3.50E+06	-	330	3,498,018	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Antimony	μg/kg	640	1.19E+07	12	975,232	130	600	975,232	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Aroclor-1254	μg/kg	81	c	12	_c	-	17	-	c	
100-B-14:2_Shallow_2	Aroclor-1260	μg/kg	5.3	c	12	_c	-	17	-	c	
100-B-14:2_Shallow_2	Benzo(a)anthracene	μg/kg	703	_c	12	_c		15		c	
100-B-14:2_Shallow_2	Benzo(a)pyrene	μg/kg	655	c	12	_c		15		e	
100-B-14:2_Shallow_2	Benzo(b)fluoranthene	μg/kg	534	_c	12	_c		15	**	_c	
100-B-14:2_Shallow_2	Benzo(k)fluoranthene	μg/kg	564	_c	12	_c	-	15		_c	_
100-B-14:2_Shallow_2	Bis(2-ethylhexyl) phthalate	μg/kg	27	c	12	c		330	_	_c	
100-B-14:2 Shallow 2	Carbazole	μg/kg	214	537	12	44		330	330	RDL	No
100-B-14:2_Shallow_2	Chlordane	μg/kg	1.2	1.42E+06	12	116,479		1.7	116,479	Scaled GWP SSL	No
100-B-14:2 Shallow 2	Chrysene	μg/kg	830	_c	12	_c		100		C	_
100-B-14:2 Shallow 2	Copper	μg/kg	23,864	7.69E+06	12	630,297	22,000	1,000	630,297	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Dibenz[a,h]anthracene	μg/kg	318	_c	12	_c		30		c	
100-B-14:2 Shallow 2	Dibenzofuran	μg/kg	82	3,353	12	275	**	330	330	RDL	No
100-B-14:2 Shallow 2	Dieldrin	μg/kg	3.6	166	12	14		3.3	0,014	Scaled GWP SSL	No
100-B-14:2 Shallow 2	Di-n-butylphthalate	μg/kg	28	88,471	12	7,252		330	7,252	Scaled GWP SSL	No
100-B-14:2 Shallow 2	Di-n-octylphthalate	μg/kg	95	_c	12	_c	-	330		_c	
100-B-14:2_Shallow_2	Fluoranthene	μg/kg	1,336	3.89E+08	12	3.19E+07		330	31,885,246	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Fluorene	μg/kg	130	97,154	12	7,963	***	330	7,963	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Hexavalent Chromium	μg/kg	418	6,000°	12	6,000		1,000	6,000	*	No
100-B-14:2 Shallow 2	Indeno(1,2,3-cd)pyrene	μg/kg	423	~°	12	¢	-	330	**	c	
100-B-14:2_Shallow_2	Lead	μg/kg	35,014	_c	12	_c	10,200	5,000		_c	
100-B-14:2 Shallow 2	Mercury	μg/kg	118	1.34E+07	12	1.10E+06	13	200	1,100,890	Scaled GWP SSL	No
100-B-14:2 Shallow 2	Molybdenum	μg/kg	794	563,885	12	46,220	470	2,000	46,220	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Naphthalene	μg/kg	55	6,798	12	S57		330	0,557	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Pentachlorophenol	μg/kg	1,900	330	12	27		330	330	RDL	Yes
100-B-14:2_Shallow_2	Pyrene	μg/kg	1,289	3.89E+08	12	3.19E+07	**	330	31,885,246	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Strontium	μg/kg	35,581	3.89E+08	12	3.19E+07		1,000	31,885,246	Scaled GWP SSL	No
100-B-14:2_Shallow_2	Tin	μg/kg	1,100	c	12	e		10,000	-	¢	
100-B-14:2_Shallow_2	Zinc	μg/kg	85,443	3.89E+08	12	3.19E+07	67,800	1,000	31,885,246	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Aroclor-1254	μg/kg	8.9	c	19	c		17		¢	-
100-B-14:2_Shallow_3	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	μg/kg	0.62	3.8	19	0.20		1.7	1.7	RDL	No
100-B-14:2_Shallow_3	Bis(2-ethylhexyl) phthalate	μg/kg	35	e	19	_c	-	330		c	
100-B-14:2_Shallow_3	Di-n-butylphthalate	μg/kg	21	88,471	19	4,584		330	4,584	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Endrin	μg/kg	1.3	1,219	19	63	**	3	0,063	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Hexavalent Chromium	μg/kg	363	6,000 ^e	19	6,000		1,000	6,000	_e	No
100-B-14:2_Shallow_3	Mercury	μg/kg	28	1.34E+07	19	695,900	13	200	695,900	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Methoxychlor	μg/kg	49	⊸c	19	c		20	-	c	-
100-B-14:2_Shallow_3	Molybdenum	μg/kg	522	563,885	19	29,217	470	2,000	29,217	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Pyrene	μg/kg	20	3.89E+08	19	2.02E+07		330	20,155,440	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Strontium	μg/kg	34,255	3.89E+08	19	2.02E+07	-	1,000	20,155,440	Scaled GWP SSL	No
100-B-14:2_Shallow_3	Tin	μg/kg	1,351	c	19	¢	-	10,000		c	
100-B-14:2_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	300	c	2.0	_c	40	330		c	
100-B-14:2_Shallow_Focused	Hexavalent Chromium	μg/kg	248	6,000 ^e	2.0	6,000		1,000	6,000	e	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(With Background Cor		te Model Son Screening Levels P				
			Exposure Point	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width In Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name	Units	(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCl/g)	Selected GWP SSL Basis	Groundwater?
100-B-14:2_Shallow_Focused	Mercury	μg/kg	44 34,200	1.34E+07 3.89E+08	2.0	6.72E+06 1.95E+08	13	200 1,000	6,715,431 194,500,000	Scaled GWP SSL	No
100-B-14:2_Shallow_Focused 100-B-14:3_Deep_Focused	Bis(2-ethylhexyl) phthalate	μg/kg μg/kg	46	3.692+06	2.0	1.55£406	-	330	194,500,000	Scaled GWP SSL	No
100-B-14:3_Deep_Focused	Molybdenum	μg/kg μg/kg	528	563,885	2.0	281,942	470	2,000	281,942	Scaled GWP SSL	- No
100-8-14:5 Shallow Focused	Antimony	μg/kg	310	1.19E+07	0.010	1.19E+09	130	600	1,189,782,694	Scaled GWP SSL	No No
100-B-14:S_Shallow_Focused	Boron	μg/kg	4,400	348,488	0.010	3.48E+07	3,890	2,000	34,848,814	Scaled GWP SSL	No
100-B-14:5_Shallow_Focused	Molybdenum	μg/kg	560	563,885	0.010	5.64E+07	470	2,000	56,388,460	Scaled GWP SSL	No
100-B-14:5_Shallow_Focused	Zinc	μg/kg	76,200	3.89E+08	0.010	3.89E+10	67,800	1,000	38,900,000,000	Scaled GWP SSL	No
100-B-14:6 Shallow Focused	Barium	μg/kg	364,000	3.89E+08	11	3.57E+07	132,000	2,000	35,688,073	Scaled GWP SSL	No
100-B-14:6_Shallow_Focused	Boron	μg/kg	5,800	348,488	11	31,971	3,890	2,000	31,971	Scaled GWP 5SL	No
100-B-14:6_Shallow_Focused	Chromium	μg/kg	49,100	-c	11	_c	18,500	1,000		_c	-
100-B-14:6 Shallow Focused	Lead	μg/kg	10,800	_c	11	_c	10,200	5,000	***	_c	-
100-B-14:6 Shallow Focused	Mercury	μg/kg	1,400	1.34E+07	11	1.23E+06	13	200	1,232,189	Scaled GWP SSL	No
100-B-14:6_Shallow_Focused	Molybdenum	μg/kg	940	563,885	11	\$1,733	470	2,000	51,733	Scaled GWP SSL	No
100-B-14:6_Shallow_Focused	Nickel	μg/kg	25,100	3.89E+08	11	3.S7E+07	19,100	4,000	35,688,073	Scaled GWP SSL	No
100-B-14:7_Shallow_Focused	Antimony	μg/kg	410	1.19E+07	5.7	2.09E+06	130	600	2,087,338	Scaled GWP SSL	No
100-B-14:7_Shallow_Focused	Boron	μg/kg	5,400	348,488	5.7	61,138	3,890	2,000	61,138	Scaled GWP SSL	No
100-B-14:7_Shallow_Focused	Chromium	μg/kg	25,400	_c	5.7	C	18,500	1,000	_	_c	
100-B-14:7 Shallow Focused	Lead	μg/kg	12,100	_c	5.7	_c	10,200	5,000		c	
100-B-14:7 Shallow Focused	Mercury	μg/kg	80	1.34E+07	5.7	2.36E+06	13	200	2,356,291	Scaled GWP SSL	No
100-B-14:7 Shallow Focused	Molybdenum	μg/kg	760	563,885	5.7	98,927	470	2,000	98,927	Scaled GWP SSL	No
100-B-14:7_Shallow_Focused	Nickel	μg/kg	22,700	3.89E+08	5.7	6.82E+07	19,100	4,000	68,245,614	Scaled GWP SSL	No
100-B-14:7_Shallow_Focused	Zinc	μg/kg	79,400	3.89E+08	5.7	6.82E+07	67,800	1,000	68,245,614	Scaled GWP SSL	No
100-B-16_Shallow_Focused	Aroclor-1260	μg/kg	24	c	11	c	-	17	-	c	
100-B-16_Shallow_Focused	Barium	μg/kg	226,000	3.89E+08	11	3.47E+07	132,000	2,000	34,732,143	Scaled GWP SSL	No
100-B-16_Shallow_Focused	Benzo(a)anthracene	μg/kg	26	_c	11	-c	0-0	15		c	_
100-B-16_Shallow_Focused	Benzo(a)pyrene	μg/kg		, c	11	c		15	dies .	_e	
100-B-16 Shallow Focused	Benzo(b)fluoranthene	μg/kg	61	C C	11	_c	_	15	-	_e /	
100-B-16_Shallow_Focused	Benzo(k)fluoranthene	μg/kg		_c	11	_c	_	15		_c	
100-B-16_Shallow_Focused	Bis(2-ethylhexyl) phthalate		100	_c	11	C C		330		_c	-
		μg/kg							***		-
100-B-16_Shallow_Focused	Chrysene	μg/kg	110		11	c	-	100	-	c	
100-B-16_Shallow_Focused	Di-n-butylphthalate	μg/kg	37	88,471	11	7,899		330	7,899	Scaled GWP SSL	No
100-B-16_Shallow_Focused	Fluoranthene	μg/kg	150	3.89E+08	11	3.47E+07		330	34,732,143	Scaled GWP SSL	No
100-B-16_Shallow_Focused 100-B-16_Shallow_Focused	Mercury Pyrene	μg/kg	30 120	1.34E+07 3.89E+08	11	1.20E+06 3.47E+07	13	200 330	1,199,184 34,732,143	Scaled GWP SSL Scaled GWP SSL	No
100-B-16 Shallow Focused	Silver	μg/kg μg/kg		27,530	11	2,458	. 167	200	2,458	Scaled GWP SSL	No No
100-B-18_Shallow_Focused	Acenaphthene	μg/kg	170	84,728	20	4,301	. 107	330	4,301	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Acetone	μg/kg	73	17,372	20	882		20	0,882	Scaled GWP SSL	No
100-B-18 Shallow Focused	Anthracene	μg/kg		4.27E+07	20	2.17E+06		330	2,166,285	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Antimony	μg/kg	9,300	1.19E+07	20	603,951	130	600	603,951	Scaled GWP SSL	No
100-B-18 Shallow Focused	Aroclor-1254	μg/kg		_c	20	-c	-	17	-	_c	_
100-B-18 Shallow Focused	Aroclor-1260	μg/kg	_	_c	20	_ c	-	17	**	_c	-
100-B-18 Shallow Focused	Barium	μg/kg	1.30E+06	3.89E+08	20	1.97E+07	132,000	2,000	19,746,193	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Benzo(a)anthracene	μg/kg	250	c	20	_c		15		_ E	-
100-B-18_Shallow Focused	Benzo(a)pyrene	μg/kg		C me	20	_c		15	-	_c	_
100-8-18_Shallow_Focused	Benzo(b)fluoranthene			c	20			15		_c	-
	Benzo(k)fluoranthene	μg/kg									
100-B-18_Shallow_Focused		μg/kg	100	_c	20	, E	2.000	15	17.600	9	
100-8-18_Shallow_Focused	Boron	μg/kg	34,200	348,488	20	17,690	3,890	2,000	17,690	Scaled GWP SSL	Yes
100-B-18_Shallow_Focused	Cadmium	μg/kg	13,200	1,256	20	64	1,510	50	1,510	Background Value	Yes
100-B-18_Shallow_Focused	Chrysene	μg/kg	270	_c	20			100	-	_c	
100-B-18_Shallow_Focused	Dibenz[a,h]anthracene	μg/kg	30	_c	20	-c	**	30		_c	
100-B-18_Shallow_Focused	Fluoranthene	μg/kg	300	3.89E+08	20	1.97E+07	**	330	19,746,193	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Fluorene	μg/kg	530	97,154	20	4,932		330	4,932	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(1	With Background Cor	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCl/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	is EPC > Soil Screening Level Protective of Groundwater?
100-B-18 Shallow Focused	Indeno(1,2,3-cd)pyrene	μg/kg	210	-c	20	_c	(pg/kg or per/g)	330	(he) re or bei/8/	C C C C C C C C C C C C C C C C C C C	- diodilawateri
	Lead			c	20		40.200	5,000		_c	
100-B-18_Shallow_Focused		μg/kg	25,300				10,200	200	681,770	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Mercury Molybdenum	μg/kg	2,200 960	1.34E+07 563,885	20	681,770 28,624	13 470	2,000	28,624	Scaled GWP SSL	No
100-B-18_Shallow_Focused 100-B-18_Shallow_Focused	Naphthalene	μg/kg	440	6,798	20	345	470	330	0,345	Scaled GWP SSL	Yes
100-8-18 Shallow Focused	Pyrene	μg/kg μg/kg	510	3.89E+08	20	. 1.97E+07	-	330	19,746,193	Scaled GWP SSL	No
100-B-18_Shallow_Focused	Total petroleum hydrocarbons	μg/kg	222,000	1.00E+06 ^d	20	1000000			1,000,000	_d	No
100-B-18 Shallow Focused	Zinc		77,600	3.89E+08	20	1.97E+07	67,800	1,000	19,746,193	Scaled GWP SSL	No
100-B-19 Shallow 1	Antimony	μg/kg μg/kg	970	1.19E+07	64	186,779	130	600	186,779	Scaled GWP SSL	No
100-B-19_Shallow_1	Chromium		38,860	1.15E+07	64	_c		1,000	180,773	Scaled GWF 33E	-
		μg/kg					18,500				_
100-B-19_Shallow_1	Hexavalent Chromium	μg/kg	886	6,000°	64	6,000	**	1,000	6,000	_*	No
100-B-19_Shallow_1	Lead	μg/kg		c	64	c	10,200	5,000		C	-
100-B-19_Shallow_1	Mercury	μg/kg		1.34E+07	64	210,846	13	200	210,846	Scaled GWP SSL	No
100-B-19_Shallow_2	Antimony	μg/kg	1,194	1.19E+07	16	725,477	130	600	725,477	Scaled GWP SSL	No
100-B-19_Shallow_2	Hexavalent Chromium	μg/kg	190	6,000 ^e	16	6,000		1,000	6,000		No
100-B-19_Shallow_2	Mercury	μg/kg		1.34E+07	16	818,955	13	200	818,955	Scaled GWP SSL	No
100-B-19_Shallow_2	Molybdenum	μg/kg	649	563,885	16	34,383	470	2,000	34,383	Scaled GWP SSL	No
100-B-19_Shallow_2	Selenium	μg/kg	1,280	9,013	16	550	780	200	780	Background Value	Yes
100-B-19_Shallow_4	Hexavalent Chromium	μg/kg		6,000°	36	6,000		1,000	6,000	_*	No
100-B-19_Shallow_4	Mercury	μg/kg	15	1.34E+07	36	373,079	13	200	373,079	Scaled GWP SSL	No
100-B-19_Shallow_5	Hexavalent Chromium	μg/kg		6,000 ^e	25	6,000	-	1,000	6,000	°	No
100-B-19_Shallow_5	Mercury	μg/kg	6,100	1.34E+07	25	532,971	13	200	532,971	Scaled GWP SSL	No
100-B-19_Shallow_5	Molybdenum	μg/kg	820	563,885	25	22,376	470	2,000	22,376	Scaled GWP 5SL	No
100-B-19_Shallow_Focused	Antimony	μg/kg	1,500	1.19E+07	219	54,328	130	600	54,328	Scaled GWP SSL	. No
100-B-19_Shallow_Focused	Barium	μg/kg	173,000	3.89E+08	219	1.78E+06	132,000	2,000	1,776,256	Scaled GWP SSL	No
100-B-19_Shallow_Focused	Copper	μg/kg	22,800	7.69E+06	219	35,112	22,000	1,000	35,112	Scaled GWP SSL	No
100-B-19_Shallow_Focused	Hexavalent Chromium	μg/kg	330	6,000 ^e	219	6,000	-	1,000	6,000	•	No
100-B-19_Shallow_Focused	Iron	μg/kg	3.96E+07	2.92E+08	219	1.34E+06	3.26E+07	-	32,600,000	Background Value	Yes
100-B-19_Shallow_Focused	Lead	μg/kg	17,400	e c	219	_c	10,200	5,000	-	_c	_
100-B-19_Shallow_Focused	Mercury	μg/kg	17,100	1.34E+07	219	61,328	13	200	61,328	Scaled GWP SSL	No
100-B-19_Shallow_Focused	Molybdenum	μg/kg	1,100	563,885	219	2,575	470	2,000	2,575	Scaled GWP SSL	No
100-B-19_Shallow_Focused	Vanadium	μg/kg	91,300	u _e	219	_c	85,100	2,500	••	_c	-
100-B-20_Shallow_Focused	Aroclor-1260	μg/kg	8.5	e c	3.2	c	-	17		_c	-
100-B-20 Shallow_Focused	Benzo(a)anthracene	μg/kg	29	_c	3.2	_c	-	15		_c	-
100-B-20 Shallow Focused	Benzo(a)pyrene	μg/kg	32	_c	3.2	_c	***	15		c	
100-B-20 Shallow Focused	Benzo(b)fluoranthene	μg/kg		_c	3.2	C C		15		_c	-
100-B-20 Shallow_Focused	Benzo(k)fluoranthene			c	3.2	, c		15	della	_c	
		μg/kg		_c		_ c				_ c	
100-B-20_Shallow_Focused	Chrysene	μg/kg			3.2		22,000	100	2 402 006		- No
100-B-20_Shallow_Focused	Copper	μg/kg		7.69E+06	3.2	2.40E+06	22,000	1,000	2,403,006	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Di-n-butylphthalate	μg/kg	153	88,471	3.2	27,647	-	330	27,647	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Fluoranthene	μg/kg		3.89E+08		1.22E+08		330	121,562,500	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Indeno(1,2,3-cd)pyrene	μg/kg		c	3.2		-	330		c	-
100-B-20_Shallow_Focused	Lead	μg/kg	20,900	c	3.2	_c	10,200	5,000	-	-c	-
100-B-20_Shallow_Focused	Mercury	μg/kg	327	1.34E+07	3.2	4.20E+06	13	200	4,197,144	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Molybdenum	μg/kg	599	563,885	3.2	176,214	470	2,000	176,214	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Pyrene	μg/kg	40	3.89E+08	3.2	1.22E+08	***	330	121,562,500	Scaled GWP SSL	No
100-B-20_Shallow_Focused	Zinc	μg/kg		3.89E+08	3.2	1.22E+08	67,800	1,000	121,562,500	Scaled GWP SSL	No
100-B-21:2_Shallow	Di-n-butylphthalate	μg/kg	22	88,471	33	2,681	-	330	2,681	Scaled GWP SSL	No
100-B-21:2_Shallow	Hexavalent Chromium	μg/kg		6,000°	33	6,000		1,000	6,000	e	No
100-B-21:2_Shallow	Molybdenum	μg/kg		563,885	33	17,087	470	2,000	17,087	Scaled GWP SSL	No
100-B-21:2_Shallow	Pyrene	μg/kg	21	3.89E+08	33	1.18E+07		330	11,787,879	Scaled GWP SSL	No
100-B-21:2_Shallow	Silver	μg/kg		27,530	33	834	167	200	0,834	Scaled GWP SSL	No
100-B-21:3_Shallow	Antimony	μg/kg	369	1.19E+07	9.2	1.29E+06	130	600	1,293,242	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

100-B-21:3_Shallow Be 100-B-21:3_Shallow Be 100-B-21:3_Shallow Bi 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Fli 100-B-21:3_Shallow M 100-B-21:3_Shallow Py 100-B-21:3_Shallow Eu 100-B-21:3_Shallow Ar 100-B-21:4_Shallow Ar 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Se 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow Pl 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To	Analyte Name Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg	Exposure Point Concentration (µg/kg or pCi/g) 68 27 41 60 22 86 120 20	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* (\frac{\mu g}{kg} \cdot m \ or \frac{\mu Cl}{g} \cdot m) ccccccccc -	Site Width in Direction of Groundwater Flow ^b (m) 9.2 9.2 9.2 9.2	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (µg/kg or pCi/g)	Required Detection Limit (µg/kg or pCi/g) 15	Selected GWP SSL (μg/kg or pCl/g) —	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
100-B-21:3_Shallow Be 100-B-21:3_Shallow Be 100-B-21:3_Shallow Be 100-B-21:3_Shallow Bi 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Fli 100-B-21:3_Shallow M 100-B-21:3_Shallow Py 100-B-21:3_Shallow Eu 100-B-21:3_Shallow Ar 100-B-21:4_Shallow Ch 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Se 100-B-21:4_Shallow Cc 100-B-21:4_Shallow Cc 100-B-21:4_Shallow Cc 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Fu 1	Benzo(a)anthracene Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg	68 27 41 60 22 86 120 20	-c -c -c -c	9.2 9.2 9.2 9.2	_c	-	15	**	_c	
100-B-21:3_Shallow Be 100-B-21:3_Shallow Be 100-B-21:3_Shallow Bi 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Fli 100-B-21:3_Shallow M 100-B-21:3_Shallow Py 100-B-21:3_Shallow Eu 100-B-21:3_Shallow Ar 100-B-21:4_Shallow Ar 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Se 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Pl 100-B-21:4_Shallow Pl 100-B-21:4_Shallow Pl 100-B-21:4_Shallow Focused 100-B-21:4_Shallow Focused	Benzo(a)pyrene Benzo(b)fluoranthene Benzo(k)fluoranthene Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg pci/g	27 41 60 22 86 120 20	-c -c -c -c	9.2 9.2 9.2	_c					-
100-B-21:3_Shallow Be 100-B-21:3_Shallow Be 100-B-21:3_Shallow Bi 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Ch 100-B-21:4_Shallow Mi	Benzo(b)fluoranthene Benzo(k)fluoranthene Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg µg/kg pCi/g	41 60 22 86 120 20	-c -c	9.2 9.2		-	15			
100-B-21:3_Shallow Be 100-B-21:3_Shallow Bi 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:3_Shallow Mi 100-B-21:4_Shallow Ch 100-B-21:4_Shallow Mi	Benzo(k)fluoranthene Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	нg/kg нg/kg нg/kg нg/kg нg/kg нg/kg рСі/g	60 22 86 120 20	c	9.2				-	-c	-
100-B-21:3_Shallow Bit 100-B-21:3_Shallow Ch 100-B-21:3_Shallow Flu 100-B-21:3_Shallow Mt 100-B-21:3_Shallow Mt 100-B-21:3_Shallow Mt 100-B-21:3_Shallow Eu 100-B-21:4_Shallow Ch 100-B-21:4_Shallow Mt	Bis(2-ethylhexyl) phthalate Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	µg/kg µg/kg µg/kg µg/kg µg/kg pCi/g	22 86 120 20	c			-	15	**	~°c	-
100-B-21:3_Shallow	Chrysene Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	μg/kg μg/kg μg/kg μg/kg ρCi/g	86 120 20			_c	_	15	-	-c	
100-B-21:3 Shallow Flu 100-B-21:3 Shallow M 100-B-21:3 Shallow Py 100-B-21:3 Shallow Eu 100-B-21:4 Shallow Ar 100-B-21:4 Shallow M 100-B-21:4 Shallow Se 100-B-21:4 Shallow Cc 100-B-21:4 Shallow Plu 100-B-21:4 Shallow Tc	Fluoranthene Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	μg/kg μg/kg μg/kg ρCi/g	120 20	c	9.2	_c		330		_c	-
100-B-21:3_Shallow M 100-B-21:3_Shallow Py 100-B-21:3_Shallow Eu 100-B-21:4_Shallow Ar 100-B-21:4_Shallow Ch 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Ph 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused All	Mercury Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	μg/kg μg/kg pCi/g	20		9.2	c	-	100	-	-c	-
100-B-21:3_Shallow Py 100-B-21:3_Shallow Eu 100-B-21:4_Shallow Ar 100-B-21:4_Shallow Ch 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Se 100-B-21:4_Shallow Co 100-B-21:4_Shallow Co 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Al	Pyrene Europium-152 Antimony Chromium Hexavalent Chromium	μg/kg pCi/g		3.89E+08	9.2	4.23E+07	-	330	42,282,609	Scaled GWP SSL	No
100-B-21:3_Shallow Eu 100-B-21:4_Shallow Ar 100-B-21:4_Shallow Ch 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Se 100-B-21:4_Shallow Co 100-B-21:4_Shallow Co 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Alf	Europium-152 Antimony Chromium Hexavalent Chromium	pCi/g		1.34E+07	9.2	1.46E+06	13	200	1,459,876	Scaled GWP SSL	No
100-B-21:4_Shallow	Antimony Chromium Hexavalent Chromium		83	3.89E+08	9.2	4.23E+07	*	330	42,282,609	Scaled GWP SSL	No
100-B-21:4_Shallow Ch 100-B-21:4_Shallow He 100-B-21:4_Shallow M 100-B-21:4_Shallow M 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Co 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Alf	Chromium Hexavalent Chromium		0.16	_c	9.2	c	- 120	0.1	402.216	Carled CM/D CCI	No.
100-B-21:4_Shallow	Hexavalent Chromium	μg/kg	866	1.19E+07	30	403,316	130	600	403,316	Scaled GWP SSL	No
100-B-21:4_Shallow		μg/kg	32,036	-c	30	_c	18,500	1,000			-
100-B-21:4 Shallow M 100-B-21:4 Shallow Se 100-B-21:4 Shallow Ce 100-B-21:4 Shallow Ce 100-B-21:4 Shallow Eu 100-B-21:4 Shallow Pl 100-B-21:4 Shallow To 100-B-22:2 Shallow Focused	Management	μg/kg	300	6,000 ^e	30	6,000	-	1,000	6,000		No
100-B-21:4_Shallow Se 100-B-21:4_Shallow Ce 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:4_Shallow To 100-B-22:2_Shallow_Focused Alf	Mercury	μg/kg	47	1.34E+07	30	455,283	13	200	455,283	Scaled GWP SSL	No
100-B-21:4_Shallow Cc 100-B-21:4_Shallow Cc 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Alf	Molybdenum	μg/kg	494	563,885	30	19,115	470	2,000	19,115	Scaled GWP SSL	No
100-B-21:4_Shallow Co 100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Alf	Selenium	μg/kg	1,040	9,013	30	306	780	1,000	1,000	RDL _c	Yes
100-B-21:4_Shallow Eu 100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Al	Cesium-137	pCi/g	45	_c	30	_c	1.1	0.1			-
100-B-21:4_Shallow Pl 100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Al	Cobalt-60	pCi/g	0.25	_c	30	6	0.0084	0.05		_c	-
100-B-21:4_Shallow To 100-B-22:2_Shallow_Focused Al	Europium-152	pCi/g	1.0	_c	30	_c	-	0.1		_c	
100-B-22:2_Shallow_Focused Ale	Plutonium-239/240	pCi/g	0.049	_c	30	_c	0.025	1	**	- C	-
	Total beta radiostrontium	pCi/g	1.4	2,121	30	72	0.18	1	0,072	Scaled GWP SSL	No
	Aluminum	μg/kg	1.19E+07	c	126	_c	1.18E+07	-		_c	***
100-B-22:2_Shallow_Focused Ar	Antimony	μg/kg	1,080	1.19E+07	126	94,203	130	600	94,203	Scaled GWP SSL	No
100-B-22:2_Shallow_Focused Be	Beryllium	μg/kg	1,700	_c	126	_c	1,510	500		_c	-
100-B-22:2_Shallow_Focused Bo	Boron	μg/kg	9,230	348,488	126	2,759	3,890	2,000	3,890	Background Value	Yes
100-B-22:2_Shallow_Focused Ca	Cadmium	μg/kg	1,020	1,256	126	9.9	1,510	50	1,510	Background Value	No
100-B-22:2_Shallow_Focused Ch	Chromium	μg/kg	24,800	_c	126	_c	18,500	1,000		_c	-
100-B-22:2_Shallow_Focused Co	Copper	μg/kg	66,700	7.69E+06	126	60,884	22,000	1,000	60,884	Scaled GWP SSL	Yes
100-B-22:2_Shallow_Focused He	Hexavalent Chromium	μg/kg	402	6,000°	126	6,000	-	1,000	6,000		No
100-B-22:2_Shallow_Focused Iro	Iron	μg/kg	4.43E+07	2.92E+08	126	2.32E+06	3.26E+07	-	32,600,000	Background Value	Yes
100-B-22:2_Shallow_Focused Le	Lead	μg/kg	125,000	_c	126	_c	10,200	5,000	**	_c	
	Mercury ·	μg/kg	319	1.34E+07	126	106,341	13	200	106,341	Scaled GWP SSL	No
	Molybdenum	μg/kg	2,000	563,885	126	4,465	470	2,000	4,465	Scaled GWP SSL	No
	Nickel	μg/kg	21,300	3.89E+08	126	3.08E+06	19,100	4,000	3,079,968	Scaled GWP SSL	No
	Silver	μg/kg	1,960	27,530	126	218	167	1,000	0,218 3,079,968	Scaled GWP SSL Scaled GWP SSL	Yes No
	Zinc	μg/kg	176,000	3.89E+08	126	3.08E+06 68	67,800	330	330	RDL	No
	Acenaphthene Anthracene	μg/kg	1,900	84,728 4.27E+07	1,238	34,477		330	34,477	Scaled GWP SSL	No
	Antimony	μg/kg μg/kg	270	1.19E+07	1,238	9,612	130	600	9,612	Scaled GWP SSL	No
	Aroclor-1254	μg/kg μg/kg	5.4	1.15E+07	1,238	_c	-	17	200	_c	-
	Aroclor-1260				1,238	_c		17		_c	_
	Benzo(a)anthracene	μg/kg	21		1,238	_c		15		_c	-
		μg/kg	490				-	15		e	
	Benzo(a)pyrene	μg/kg	220		1,238			15			-
	Benzo(b)fluoranthene	μg/kg	270	-c	1,238		-			¢	-
	Benzo(k)fluoranthene	μg/kg	290		1,238			15			***
	Bis(2-ethylhexyl) phthalate	μg/kg	210	_c	1,238	_c		330	2 000	Destruction of Malue	Was .
	Boron	μg/kg	14,100	348,488	1,238	282	3,890	2,000	3,890	Background Value	Yes
	Butylbenzylphthalate	μg/kg	20	60,438	1,238	49	1510	330	330 1,510	RDL Background Value	No Yes
	Cadmium	μg/kg	1,700	1,256	1,238	1.0	1,510	50 330	330	RDL	Yes
	Carbazole	μg/kg μg/kg	370 1,400	537	1,238	0.43		330	230		
100-B-23_Shallow_Focused Ch 100-B-23_Shallow_Focused Di	Chrysene	1 110/40		c	1,238	_c	_	100		KDL C	Tes —

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(1	With Background Con	sideration)					
Wests Sin (Desigles Help	Anabata Nama	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCt}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (µg/kg or pCl/g)	Required Detection Limit (µg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	is EPC > Soil Screening Level Protective of Groundwater?
Waste Site/Decision Unit	Analyte Name Dibenzofuran	μg/kg	220	3,353	1,238	2.7	(he) se or her/e/	330	330	RDL	No
100-B-23_Shallow_Focused 100-B-23_Shallow_Focused	Di-n-butylphthalate	μg/kg	31	88,471	1,238	71	_	330	330	RDL	No
100-B-23 Shallow Focused	Fluoranthene	μg/kg	1,600	3.89E+08	1,238	314,267	-	330	314,267	Scaled GWP SSL	No
100-B-23_Shallow_Focused	Fluorene	μg/kg	390	97,154	1,238	78	-	330	330	RDL	Yes
100-B-23_Shallow_Focused	Indeno(1,2,3-cd)pyrene	μg/kg	83	_c	1,238	_c	-	330	**	_c	_
100-B-23_Shallow_Focused	Lead	μg/kg	73,800	_c	1,238	_c	10,200	5,000	**	_c	_
100-B-23_Shallow_Focused	Mercury	μg/kg	8,200	1.34E+07	1,238	10,851	13	200	10,851	Scaled GWP SSL	No
100-B-23_Shallow_Focused	Molybdenum	μg/kg	710	563,885	1,238	456	470	2,000	2,000	RDL	No
100-B-23 Shallow Focused	Pyrene	μg/kg	1,200	3.89E+08	1,238	314,267		330	314,267	Scaled GWP SSL	No
100-B-23_Shallow_Focused	Strontium	μg/kg	25,100	3.89E+08	1,238	314,267		1,000	314,267	Scaled GWP SSL	No
100-B-23_Shallow_Focused	Tin	μg/kg	3,200	_6	1,238	_ c	-	10,000	-	c	-
	Total petroleum hydrocarbons	μg/kg	173,000	1.00E+06 ^d	1,238	1000000			1,000,000	d	No
100-B-23_Shallow_Focused			1.31E+06	3.89E+08	1,238	314,267	67,800	1,000	314,267	Scaled GWP 5SL	Yes
100-B-23_Shallow_Focused	Zinc Hexavalent Chromium	μg/kg	1.31E+06	5.89E+08 6,000 ^e	48	6,000	67,800	1,000	6,000	Scaled GVP 53L	No
100-B-25_Shallow		μg/kg	44	1.34E+07	48	279,810	13	200	279,810	Scaled GWP 5SL	No
100-B-2S_Shallow	Mercury 153	μg/kg		_c		2/9,810			273,610	c	1
100-B-25_Shallow	Europium-1S2	pCi/g	1.1		48		-	0.1		c	-
100-B-25_Shallow	Nickel-63	pCi/g	4.5	_ C	48	c		30			
100-B-2S_Shallow	Total beta radiostrontium	pCi/g	0.40	2,121	48	44	0.18	1	0,044	Scaled GWP SSL	No
100-B-26_Shallow_Focused	Chromium	μg/kg	39,300	e C	32	~°C	18,500	1,000		-c	-
100-B-26_Shallow_Focused	Hexavalent Chromium	μg/kg	2,020	6,000 ^e	32	6,000		1,000	6,000	*	No
100-B-26_Shallow_Focused	Lead	μg/kg	17,600	_c	32	_c	10,200	5,000	~	_c	-
100-B-26_Shallow_Focused	Mercury	μg/kg	16	1.34E+07	32	423,686	13	200	423,686	Scaled GWP SSL	No
100-B-26_Shallow_Focused	Total_U_Isotopes	μg/kg	3,513		32	f	3,210	_			_
100-B-26 Shallow Focused	Zinc	μg/kg	108,000	3.89E+08	32	1.23E+07	67,800	1,000	12,271,293	Scaled GWP 5SL	No
100-B-26_Shallow_Focused	Cesium-137	pCi/g	3.1	e	32	_c	1.1	0.1	-	_c	
100-8-26 Shallow Focused	Uranium-233/234	pCi/g	1.4		32	E	1.1	1			-
100-B-26_Shallow_Focused	Uranium-238	pCi/g	1.2	8	32	_8	1.1	1		_	_
	Aluminum	μg/kg	1.23E+07	C	47	C	1.18E+07	_		_c	
100-B-27_Deep	Antimony	μg/kg	464	1.19E+07	47	252,608	130	600	252,608	Scaled GWP SSL	No
100-B-27_Deep 100-B-27_Deep	Barium	μg/kg	149,745	3.89E+08	47	8.26E+06	132,000	2,000	8,259,023	Scaled GWP SSL	No
100-8-27_Deep	Copper	μg/kg	28,589	7.69E+06	47	163,262	22,000	1,000	163,262	Scaled GWP SSL	No
	Hexavalent Chromium	μg/kg	215	6,000 ^e	47	6,000		1,000	6,000	-*	No
100-B-27_Deep	Iron	μg/kg	3.61E+07	2.92E+08	47	6.21E+06	3.26E+07		32,600,000	Background Value	Yes
100-8-27_Deep	Manganese	μg/kg	525,815	3.89E+08	47	8.26E+06	512,000	5,000	8,259,023	Scaled GWP SSL	No
100-B-27_Deep	Molybdenum	μg/kg	471	563,885	47	11,972	470	2,000	11,972	Scaled GWP SSL	No
100-B-27_Deep 100-B-27_Deep	Silver	μg/kg		27,530	47	584	167	200	0,584	Scaled GWP SSL	No
	Vanadium	μg/kg	86,865	_ c	47	_c	85,100	2,500	_	_c	
100-B-27_Deep	Zinc	μg/kg	69,869	3.89E+08	47	8.26E+06	67,800	1,000	8,259,023	Scaled GWP SSL	No
100-B-27_Deep 100-B-28_Shallow_1	Boron	μg/kg μg/kg	5,012	348,488	25	13,996	3,890	2,000	13,996	Scaled GWP SSL	No
	Hexavalent Chromium	μg/kg	330	6,000°	25	6,000		1,000	6,000	_*	No
100-B-28_Shallow_1	Mercury	μg/kg	76	1.34E+07	25	539,392	13	200	539,392	Scaled GWP SSL	No
100-B-28_Shallow_1	Molybdenum	μg/kg μg/kg	521	563,885	25	22,646	470	2,000	22,646	Scaled GWP SSL	No
100-B-28_Shallow_1	Hexavalent Chromium	μg/kg	200	6,000 ^e	19	6,000	470	1,000	6,000	Scaled GWF 33L	No
100-B-28_Shallow_3			524,239	3.89E+08	19	2.02E+07	512,000	5,000	20,155,440	Scaled GWP SSL	No
100-B-28_Shallow_3	Manganese	μg/kg	163	1.34E+07	19	695,900	13	200	695,900	Scaled GWP SSL '	No
100-B-28_Shallow_3	Zinc	μg/kg μg/kg	572,012	3.89E+08	19	2.02E+07	67,800	1,000	20,155,440	Scaled GWP SSL	No
100-B-28_Shallow_3	Antimony	μg/kg μg/kg	899	1.19E+07	22	540,810	130	600	540,810	Scaled GWP SSL	No
100-B-28_Shallow_5	Chromium	μg/kg	19,369	c	22	_c	18,500	1,000	340,010	Scarca GVV SSC	
100-B-28_Shallow_5	Hexavalent Chromium				22	6,000	10,500	1,000		_*	No
100-B-28_Shallow_5		μg/kg	190	6,000°					6,000		
100-B-28_Shallow_5	Lead	μg/kg	12,508	1 245:07	22	_c	10,200	5,000	C10.404	Cooled CIMB CCI	
100-B-28_Shallow_5	Mercury	μg/kg	77	1.34E+07	22	610,494	13	200	610,494	Scaled GWP SSL	No No
100-B-28_Shallow_5	Molybdenum	μg/kg	775	563,885	22	25,631 c	470	2,000	25,631	Scaled GWP SSL	No
100-B-28_Shallow_Focused	Aluminum	μg/kg	1.85E+07	_c	151		1.18E+07	_		_c	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				Unit -Length STOMP 1D 70:30/100:0 Contaminant	With Background Cor	sideration) STOMP 1D 70:30/100:0 Contaminant Source Model					
	·		Exposure Point Concentration	Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCt}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow	Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		Is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name		(μg/kg or pCi/g)	4.275.07	(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?
100-B-28_Shallow_Focused 100-B-28_Shallow_Focused	Anthracene Antimony	μg/kg	1.9	4.27E+07 1.19E+07	151 151	283,372 79,003	130	330 600	283,372 79,003	Scaled GWP SSL	No
100-B-28 Shallow Focused	Benzo(a)anthracene	μg/kg μg/kg	47	2.13E107	151	75,005		15	79,003	Scaled GWP SSL	No
100-B-28_Shallow_Focused	Benzo(a)pyrene	μg/kg	60	c	151			15		- C	-
100-B-28_Shallow_Focused	Benzo(b)fluoranthene	μg/kg	82	c	151	c	to a	15		_c	
100-B-28_Shallow_Focused	Benzo(k)fluoranthene	μg/kg	31	c	151	c		15			
100-B-28_Shallow_Focused	Chromium		50,100	c	151	c	40.500	1,000	Agina .	c	
	Chrysene	μg/kg		_c	151		18,500		-		-
100-B-28_Shallow_Focused	\$4.00 miles	μg/kg	37 31,000	7.69E+06		51,060	77.000	100			-
100-B-28_Shallow_Focused	Copper Dibenz[a,h]anthracene	μg/kg	8.0	7.69E+06	151 151	51,060	22,000	1,000 30	51,060	Scaled GWP SSL	No
100-B-28_Shallow_Focused 100-B-28_Shallow_Focused	Fluoranthene	μg/kg μg/kg	101	3.89E+08	151	2.58E+06		330	2,583,001	Scaled GWP SSL	No No
100-B-28_Shallow_Focused	Fluorantnene	μg/kg μg/kg	1.0	97,154	151	2.58E+06 645		330	0,645	Scaled GWP SSL	No No
100-B-28 Shallow Focused	Hexavalent Chromium	μg/kg	280	6,000 ^e	151	6,000		1,000	6,000	_e _e	No
100-B-28 Shallow Focused	Indeno(1,2,3-cd)pyrene	µg/kg	48	6,000	151	_c		330	0,000		NO
100-B-28_Shallow_Focused	Iron	μg/kg	3.69E+07	2.92E+08	151	1.94E+06	3.26E+07	550	32,600,000	Background Value	Yes
100-B-28_Shallow_Focused	Lead	μg/kg	12,700	_6	151	1.54E.00	10,200	5,000	52,000,000	c c	763
100-B-28 Shallow Focused	Mercury	μg/kg	804	1.34E+07	151	89,182	13	200	89,182	Scaled GWP SSL	No
100-B-28_Shallow_Focused	Molybdenum	µg/kg	566	563,885	151	3,744	470	2,000	3,744	Scaled GWP SSL	No
100-B-28 Shallow Focused	Pyrene	μg/kg	34	3.89E+08	151	2.58E+06	444	330	2,583,001	Scaled GWP SSL	No
100-B-28_Shallow_Focused	Vanadium	μg/kg	106,000	, c	151	_c	85,100	2,500	-	_c	-
100-B-28_Shallow_Focused	Zinc	μg/kg	81,700	3.89E+08	151	2.58E+06	67,800	1,000	2,583,001	Scaled GWP SSL	No
100-B-31_Shallow	Antimony	μg/kg	1,096	1.19E+07	15	787,936	130	600	787,936	Scaled GWP SSL	No
100-B-31_Shallow	Copper	μg/kg	30,009	7.69E+06	15	509,246	22,000	1,000	509,246	Scaled GWP SSL	No
100-B-31_Shallow	Hexavalent Chromium	μg/kg	173	6,000 ^e	15	6,000		1,000	6,000	0	No
100-B-31_Shallow	Lead	μg/kg	78,974	_c	15	_c	10,200	5,000		C C	
100-B-31_Shallow	Mercury	μg/kg	112	1.34E+07	15	889,461	13	200	889,461	Scaled GWP SSL	No
100-B-31_Shallow	Molybdenum	μg/kg	4,483	563,885	15	37,343	470	2,000	37,343	Scaled GWP SSL	No
100-B-31_Shallow	Selenium	μg/kg	856	9,013	15	597	780	1,000	1,000	RDL	No
100-B-33_Shallow_Focused	Boron	μg/kg	4,670	348,488	4.2	82,973	3,890	2,000	82,973	Scaled GWP SSL	No
100-B-33_Shallow_Focused	Selenium Europium-152	μg/kg	898	9,013	4.2	2,146 _¢	780	1,000 0.1	2,146	Scaled GWP SSL	No
100-B-33_Shallow_Focused		pCi/g	0.13						-	c	
100-B-35:1_Deep_Focused	Aluminum	μg/kg	1.39E+07	4.105.07	22	_c 535,938	1.18E+07			E1-4 CIMP CCI	-
100-B-35:1_Deep_Focused	Antimony Aroclor-1260	μg/kg	1,300	1.19E+07 c	22	535,938	130	600 17	535,938	Scaled GWP SSL	No
100-B-35:1_Deep_Focused		μg/kg	26 23,200	7.69E+06	22	346,379	22,000	1,000	346,379		No.
100-B-35:1_Deep_Focused 100-B-35:1_Deep_Focused	Copper Lead	μg/kg	12 200	7.69E+06	22	340,379 c		5,000	340,379	Scaled GWP SSL	No
	Total petroleum hydrocarbons - diesel range	μg/kg					10,200		2 000 000	d	
100-B-35:1_Deep_Focused		μg/kg	55,000	2.00E+06 ^d	22	2000000			2,000,000		No
100-B-35:1_Deep_Focused	Total petroleum hydrocarbons - diesel range extended to C36	μg/kg	58,000	2.00E+06 ^d	22	2000000	120		2,000,000	Control CIAID SCI	No
100-B-35:1_Shallow	Antimony Aroclor-1254	μg/kg	1,061	1.19E+07	122	97,523 _c	130	600 17	97,523	Scaled GWP SSL	No
100-B-35:1_Shallow	Aroclor-1254 Aroclor-1260	μg/kg	7.4	c	122					c	-
100-B-35:1_Shallow		μg/kg	3.0		122	c		17	-	c	-
100-B-35:1_Shallow	Benzo(a)anthracene	μg/kg	15	_c	122	c		15		c	-
100-8-35:1_Shallow	Benzo(a)pyrene	μg/kg	17	c	122	e	-	15		_c	
100-B-35:1_Shallow	Benzo(b)fluoranthene	μg/kg	65	e	122		44	15	474	c	-
100-B-35:1_Shallow	Benzo(k)fluoranthene	μg/kg	10	c	122	c	-	15		-c	
100-B-35:1_Shallow	Chrysene	μg/kg	13	_c -	122		-	100	-	¢	-
100-B-35:1_Shallow	Fluoranthene	μg/kg	17	3.89E+08	122	3.19E+06	Aven	330	3,188,525	Scaled GWP S5L	No
100-B-35:1_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	26	c	122	c	-	330	-	c	**
100-B-35:1_Shallow	Mercury	μg/kg	14	1.34E+07	122	110,089	13	200	110,089	Scaled GWP SSL	No
100-B-35:1_Shallow	Pyrene	μg/kg	15	3.89E+08	122	3.19E+06		330	3,188,525	Scaled GWP SSL	No
100-B-35:1_Shallow	Total petroleum hydrocarbons - diesel range	μg/kg	9,369	2.00E+06 ^d	122	2000000	**		2,000,000	d	No
100-B-35:1_Shallow	Total petroleum hydrocarbons - diesel range extended to C36	µg/kg	11,859	2.00E+06 ^d	122	2000000		-	2,000,000	8	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				C	With Background Cor	sideration)					
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		Is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name		(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?
100-B-35:2 Shallow_Focused	Antimony Aroclor-1260	μg/kg	3,570	1.19E+07	16	748,291	130	600	748,291	Scaled GWP SSL	No
100-B-35:2_Shallow_Focused	Benzo(a)anthracene	μg/kg	42	c	16	c	-	17	***	c	-
100-B-35:2_Shallow_Focused	Benzo(a)pyrene	μg/kg	67	c	16			15		c	
100-B-35:2_Shallow_Focused		μg/kg	77	¢	16	c		15			-
100-B-35:2_Shallow_Focused	Benzo(b)fluoranthene Benzo(k)fluoranthene	μg/kg	74	c	16	^c		15		_c	-
100-B-35:2_Shallow_Focused		μg/kg	41	c	16	c		15		c	-
100-B-35:2_Shallow_Focused	Chrysene	μg/kg	54	e	16	_c	***	100	•••	c	
100-B-35:2_Shallow_Focused	Dibenz[a,h]anthracene	μg/kg	7.7	_c	16	c		30		c	
100-B-35:2_Shallow_Focused	Fluoranthene	μg/kg	63	3.89E+08	16	2.45E+07		330	24,465,409	Scaled GWP 5SL	No
100-B-35:2_Shallow_Focused	Indeno(1,2,3-cd)pyrene	μg/kg	63	_c	16	c		330	-	C C	
100-B-35:2_Shallow_Focused	Lead	μg/kg	12,700	2 005 109	16	2.455.07	10,200	5,000	- 24 ACE 400	Control CMD CCI	Nia
100-B-35:2_Shallow_Focused 100-B-35:2_Shallow_Focused	Pyrene Silver	μg/kg	62 569	3.89E+08 27,530	16 16	2.45E+07 1,731	167	330 200	24,465,409 1,731	Scaled GWP SSL Scaled GWP SSL	No No
100-B-35:2_Shallow_Focused	Total petroleum hydrocarbons - diesel range	μg/kg μg/kg	3,580	27,530 2.00E+06 ^d	16	2000000	16/	200	2,000,000	Scaled GWP SST	No
100-B-35:2 Shallow Focused	Total petroleum hydrocarbons - motor oil (high boiling)	μg/kg	19,300	2.00E+06 ^d	16	2000000			2,000,000	_d	
100-B-35:2_Shallow_Focused	Zinc	μg/kg μg/kg	158,000	3.89E+08	16	2.45E+07	67,800	1,000	24,465,409	Scaled GWP SSL	No No
100-B-5_Deep	Chromium	μg/kg μg/kg	297,000	3.09E+08	28	2.45E+07		1,000	24,465,409	Scaled GWP 33L	140
100-B-5_Deep	Hexavalent Chromium	μg/kg	1,940	6,000 ^e	28	6,000	18,500	1,000	6,000		
100-B-5_Deep	Mercury	μg/kg μg/kg	5,040	1.34E+07	28	486,625	13	200	486,625	Scaled GWP SSL	No No
100-B-5_Deep	Americium-241	pCi/g	0.97	1.34L+07	28	460,023		1	400,023	c	
100-B-5_Deep	Cesium-137	pCi/g	22	_c	28	c		0.1	***	c	
	Cobalt-60	pCi/g	1.5	c	28	c	1.1	0.05	444		
100-B-5_Deep	Europium-152		1.5	c	28		0.0084			c	
100-B-5_Deep	Europium-154	pCi/g		c		_c		0.1		c	
100-B-5_Deep	Plutonium-238	pCi/g	1.4		28		0.033	0.1	***		
100-B-5_Deep		pCi/g	0.26	c	28	c	0.0038	1		c	-
100-B-5_Deep	Plutonium-239/240	pCi/g	3.4	c	28	c	0.025	1		c	-
100-B-5_Deep 100-B-5_Shallow	Total beta radiostrontium Mercury	pCi/g μg/kg	1.9	2,121 1.34E+07	28 52	77 257,296	0.18	200	0,077 257,296	Scaled GWP SSL Scaled GWP SSL	No No
100-B-5_Shallow	Americium-241	μg/kg pCi/g	0.11	1.54E+07	52	237,290 c		1	237,290	c	
100-B-5_Shallow	Plutonium-239/240	pCi/g	0.35	c	52	c		1		c	
100-B-8:1_Deep	Chromium	_	55,800	_c	29	c	0.025	1,000		c	
	Hexavalent Chromium	μg/kg	483				18,500				
100-B-8:1_Deep		μg/kg	237	6,000 ^e 1.34E+07	29	6,000 464,736	13	1,000	6,000		No
100-B-8:1_Deep 100-B-8:1_Deep	Mercury Americium-241	μg/kg pCi/g	0.44	1.34E+07	29	464,736 c		1	464,736	Scaled GWP SSL	No
100-B-8:1_Deep	Cesium-137	pCi/g	9.6	_c	29					· ·	
	Cobalt-60	pCi/g	0.16	_c	29		1.1	0.1	**	c	
100-B-8:1_Deep	Europium-152			c			0.0084	0.05			N/N
100-B-8:1_Deep	Europium-154	pCi/g	2.7	_c	29			0.1		c	**
100-B-8:1_Deep		pCi/g	0.16		29	c	0.033	0.1		c	
100-B-8:1_Deep	Plutonium-239/240	pCi/g	0.75	c	29	_c	0.025	1	0.073	c	No.
100-B-8:1_Deep	Total beta radiostrontium Hexavalent Chromium	pCi/g	2.3	2,121	29	73	0.18	1 000	0,073	Scaled GWP SSL	No
100-B-8:1_Shallow	Lead	μg/kg	286	6,000 ^e	49	6,000	-	1,000	6,000		No
100-B-8:1_Shallow	and the second s	μg/kg	37,866	c	49	276 255	10,200	5,000	276 255	Cooled CW/D CCI	No.
100-B-8:1 Shallow	Mercury Europium-152	μg/kg	48	1.34E+07 c	49	276,355 e	13	200	276,355	Scaled GWP SSL	No
100-B-8:1_Shallow	Plutonium-239/240	pCi/g	0.29		49			0.1	-		-
100-B-8:1_Shallow	Total beta radiostrontium	pCi/g	0.069	°	49	44	0.025	1	0.044	Cooled CM/D CCI	
100-B-8:1_Shallow	Chromium	pCi/g	0.32 65,806	2,121 c	49 19	c	0.18	1 1000	0,044	Scaled GWP SSL	No
100-B-8:2_Deep	Hexavalent Chromium	μg/kg					18,500	1,000			
100-B-8:2_Deep	Mercury	μg/kg	1,989 145	6,000 ^e 1.34E+07	19 19	6,000 699,524	13	1,000	6,000	Scaled CWD SSI	No
100-B-8:2_Deep	Americium-241	μg/kg pCi/g	1.1	1.34E+07	19	_c	13	200	699,524	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

					With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Linits	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{pCt}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (μg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	is EPC > Soil Screening Level Protective of Groundwater?
100-B-8:2_Deep	Cesium-137	pCi/g		c	19	c	1.1	0.1	(MB) NB OI PCI/B)	Selected GAL 22F Pasi2	Groundwaterr
100-B-8:2_Deep	Cobalt-60	pCi/g		c	19	c c	0.0084	0.05	-	c	
100-B-8:2_Deep	Europium-152	pCi/g		_c	19	c	0.0004	0.1	-	, c	-
100-B-8:2_Deep	Europium-154	pCi/g		_c	19	t	0.033	0.1		_c	
100-B-8:2_Deep	Plutonium-239/240	pCi/g	-	e e	19	c	0.025	1		- c	-
100-B-8:2_Deep	Total beta radiostrontium	pCi/g	+	2,121	19	110	0.023	1	0,110	Scaled GWP SSL	No
100-B-8:2_Shallow_1	Hexavalent Chromium	μg/kg		6,000°	31	6,000	-	1,000	6,000	e e	No
100-B-8:2 Shallow 1	Mercury	μg/kg		1.34E+07	31	434,656	13	200	434,656	Scaled GWP SSL	No
100-B-8:2_Shallow_1	Americium-241	pCi/g	+	_c	31	_c	-	1		C C	-
100-B-8:2 Shallow 1	Cobalt-60	pCi/g		_c	31	_c	0.0084	0.05	-	6	
100-B-8:2_Shallow_1	Europium-152	pCi/g		_c	31	c		0.1		_c	
100-B-8:2_Shallow_1	Europium-154	pCi/g	+	_c	31	_c	0.033	0.1		c	
100-B-8:2_Shallow_1	Plutonium-239/240	pCi/g	_		31		0.033	1		_ c	
100-B-8:2 Shallow 1	Total beta radiostrontium	pCi/g		2,121	31	69	0.025	1	0,069	Scaled GWP SSL	No No
100-B-8:2_Shallow_3	Europium-152	pCi/g		2,121	50	_6	0.16	0.1	0,009	Scaled GWP 33L	-
100-B-8:2_Shallow_3	Nickel-63	pCi/g		_c	50	c	-	30		c	-
100-B-8:2_Shallow_3	Total beta radiostrontium	pCi/g		2,121	50	43	0.18	1	0,043	Scaled GWP SSL	No
100-C-3_Shallow	Acetone	μg/kg		17,372	8.6	2,020	0.16	20	2,020	Scaled GWP SSL	No
100-C-3_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg		_c	8.6	_c	-	330	£,020	Scarce GVV 33E	
100-C-3 Shallow	Methylene chloride	μg/kg		14	8.6	1.6		5	5	RDL	Yes
100-C-3 Shallow	Toluene	μg/kg		4,437	8.6	516	-	5	0,516	Scaled GWP SSL	No
100-C-7 Shallow 1	Mercury	μg/kg		1.34E+07	36	376,215	13	200	376,215	Scaled GWP SSL	No
100-C-7:1_Shallow_1	Mercury	μg/kg		1.34E+07	55	242,434	13	200	242,434	Scaled GWP SSL	No
100-C-7:1_Shallow_2	Hexavalent Chromium .	μg/kg	620	6,000 ^e	52	6,000		1,000	6,000	_0	No
100-C-7:1_Shallow_3	Molybdenum	μg/kg	645	563,885	104	5,448	470	2,000	5,448	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Antimony	μg/kg	430	1.19E+07	2.0	5.95E+06	130	600	5,948,913	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Beryllium	μg/kg	1,800	_e	2.0	-c	1,510	500	-	C C	_
100-C-9:1_Deep_Focused	Copper	μg/kg	37,300	7.69E+06	2.0	3.84E+06	22,000	1,000	3,844,810	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Hexavalent Chromium	μg/kg	1,700	6,000 ^e	2.0	6,000		1,000	6,000	_*	No
100-C-9:1_Deep_Focused	Lead	μg/kg	15,300	_c	2.0	en C	10,200	5,000	-	c	
100-C-9:1_Deep_Focused	Mercury	μg/kg		1.34E+07	2.0	6.72E+06	13	200	6,715,431	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Molybdenum	μg/kg		563,885	2.0	281,942	470	2,000	281,942	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Strontium	μg/kg		3.89E+08	2.0	1.95E+08	-	1,000	194,500,000	Scaled GWP SSL	No
100-C-9:1_Deep_Focused	Tin	μg/kg		_c	2.0	c		10,000	-	_c	-
100-C-9:1_Shallow_1	Antimony	μg/kg	-	1.19E+07	112	106,231	130	600	106,231	Scaled GWP SSL	No
100-C-9:1_Shallow_1	Hexavalent Chromium	μg/kg		6,000	112	6,000		1,000	6,000		No
100-C-9:1_Shallow_1 100-C-9:1_Shallow_2	Mercury Antimony	μg/kg μg/kg		1.34E+07 1.19E+07	112 26	119,918 455,855	13 130	200 600	119,918 455,855	Scaled GWP SSL Scaled GWP SSL	No No
100-C-9:1_Shallow_2	Hexavalent Chromium	μg/kg		6,000°	26	6,000	-	1,000	6,000	Scaled GWP 33L	
100-C-9:1_Shallow 2	Mercury	μg/kg		1.34E+07	26	514,592	13	200	514,592	Scaled GWP SSL	No No
100-C-9:1 Shallow 2	Strontium	μg/kg		3.89E+08	26	1.49E+07	-	1,000	14,904,215	Scaled GWP SSL	No
100-C-9:1_Shallow_2	Tin	μg/kg		5.65€+06	26	c		10,000	14,504,215	Scaled GWF 33E	
100-C-9:1_Shallow_Focused	Barium	μg/kg		3.89E+08	349	1.12E+06	132,000	2,000	1,115,572	Scaled GWP SSL	No
100-C-9:1 Shallow Focused	Hexavalent Chromium	μg/kg		6,000°	349	6,000	-	1,000	6,000	_ *	No
100-C-9:2 Shallow	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg		C,000	12	c		3.3	-	e c	-
100-C-9:2_Shallow	Aroclor-1254	μg/kg	+	_c	12	_ c	-	17	-	_c	-
100-C-9:2_Shallow	Benzo(a)anthracene	μg/kg		_c	12			15	-	_c	-
100-C-9:2_Shallow	Benzo(a)pyrene			_c	12			15			-
	Benzo(b)fluoranthene	μg/kg					-				**
100-C-9:2_Shallow		μg/kg		c	12	_c	-	15			-
100-C-9:2_Shallow	Benzo(k)fluoranthene	μg/kg		-c -c	12	c	-	15 100	-		-
100-C-9:2_Shallow	Chrysene	μg/kg								_c	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

					With Background Con		te model 3011 Screening Levels 1				
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection*	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name	Units	(μg/kg or pCi/g)	2.005.00	(m)		(µg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?
100-C-9:2_Shallow	Fluoranthene Hexavalent Chromium	μg/kg	81 324	3.89E+08	12	3.32E+07 6,000		330 1,000	33,247,863 6,000	Scaled GWP SSL	
100-C-9:2_Shallow 100-C-9:2_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	29	6,000°	12	6,000	-	330	0,000	_c	No
100-C-9:2_Shallow	Lead	μg/kg	13,131		12			5,000			
100-C-9:2_Shallow	Mercury	μg/kg μg/kg	40	1.34E+07	12	1.15E+06	10,200 13	200	1,147,937	Scaled GWP SSL	No
100-C-9:2 Shallow	Pyrene	μg/kg	94	3.89E+08	12	3.32E+07	-	330	33,247,863	Scaled GWP SSL	No
100-C-9:2_Shallow	Strontium	μg/kg	22,407	3.89E+08	12	3.32E+07		1,000	33,247,863	Scaled GWP SSL	No
100-C-9:2_Shallow	Zinc	μg/kg	263,884	3.89E+08	12	3.32E+07	67,800	1,000	33,247,863	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	4,4'-DDD (Dichlorodiphenyldichloroethane)	μg/kg	3.5	836,540	15	56,523		3.3	56,523	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	14	- c	15	c		3.3		_c	
100-C-9:2_Shallow_Focused	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	5.1	^c	15	-c	-	3.3	-	_c	
100-C-9:2_Shallow_Focused	Antimony	μg/kg	970	1.19E+07	15	803,907	130	600	803,907	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Aroclor-1254	μg/kg	120	c	15	c		17		c	
100-C-9:2_Shallow_Focused	Aroclor-1260	μg/kg	11	_c	15	c	-	17		_c	
100-C-9:2_Shallow_Focused	Benzo(a)pyrene	μg/kg	22	° .	15	_c		15		_c	***
100-C-9:2_Shallow_Focused	Benzo(b)fluoranthene	μg/kg	73	_c	15	_e	-	15	-	_6	
100-C-9:2_Shallow_Focused	Benzo(k)fluoranthene	μg/kg	23	c	15	_e	-	15		c	_
100-C-9:2_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	250	_c	15	_c	-	330		_c	-
100-C-9:2_Shallow_Focused	Boron	μg/kg	5,100	348,488	15	23,546	3,890	2,000	23,546	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Chlordane	μg/kg	1.6	1.42E+06	15	96,016		1.7	96,016	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Chrysene	μg/kg	82	-	15	_c		100		_c	non.
100-C-9:2_Shallow_Focused	Copper	μg/kg	66,100	7.69E+06	15	519,569	22,000	1,000	519,569	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Di-n-butylphthalate	μg/kg	40	88,471	15	5,978		330	5,978	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Endosulfan I	μg/kg	0.64	7,192	15	486	-	3	0,486	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Endrin	μg/kg	3.6	1,219	15	82	-	3	0,082	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Hexavalent Chromium	μg/kg	830	6,000 ^e	15	6,000		1,000	6,000		No
100-C-9:2_Shallow_Focused	Lead	μg/kg	152,000	_c	15	c	10,200	5,000	-		-
100-C-9:2_Shallow_Focused	Mercury	μg/kg	850	1.34E+07	15	907,491	13	200	907,491	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Methoxychlor	μg/kg	7.3	563,885	15 15	_c	470	20	38,100	_c Scaled GWP SSL	No
100-C-9:2_Shallow_Focused 100-C-9:2_Shallow_Focused	Molybdenum Nickel	μg/kg μg/kg	1,900 22,000	3.89E+08	15	38,100 2.63E+07	19,100	4,000	26,283,784	Scaled GWP SSL	No
100-C-9:2_Shallow_Focused	Strontium	μg/kg μg/kg	32,700	3.89E+08	15	2.63E+07	19,100	1,000	26,283,784	Scaled GWP SSL	No
100-C-9:2 Shallow Focused	Zinc	μg/kg	111,000	3.89E+08	15	2.63E+07	67,800	1,000	26,283,784	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	2-Methylnaphthalene	μg/kg	1,100	2,896	2.0	1,448		330	1,448	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Acenaphthene	μg/kg	6,800	84,728	2.0	42,364	_	330	42,364	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Anthracene	μg/kg	13,000	4.27E+07	2.0	2.13E+07	-	330	21,337,912	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Antimony	μg/kg	2,100	1.19E+07	2.0	5.95E+06	130	600	5,948,913	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Benzo(a)anthracene	μg/kg	20,000	_c	2.0	c		15	**	c	
100-C-9:3_Deep_Focused	Benzo(a)pyrene	μg/kg	13,000	c	2.0	∴c	-	15		_c	-
100-C-9:3_Deep_Focused	Benzo(b)fluoranthene	μg/kg	11,000	_c	2.0	_c	-	15		e	-
100-C-9:3_Deep_Focused	Benzo(k)fluoranthene	μg/kg	12,000	_c	2.0	_c		15	-	_c	-
100-C-9:3_Deep_Focused	Carbazole	μg/kg	7,300	537	2.0	268		330	330	RDL	Yes
100-C-9:3_Deep_Focused	Chrysene	μg/kg	20,000	e c	2.0	_c	-	100	**	_c	
100-C-9:3_Deep_Focused	Dibenz(a,h)anthracene	μg/kg	2,200	_c	2.0	~c	-	30	-	c	
100-C-9:3_Deep_Focused	Dibenzofuran	μg/kg	3,000	3,353	2.0	1,677		330	1,677	Scaled GWP SSL	Yes
100-C-9:3_Deep_Focused	Fluoranthene	μg/kg	52,000	3.89E+08	2.0	1.95E+08	_	330	194,500,000	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Fluorene	μg/kg	5,800	97,154	2.0	48,577		330	48,577	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Hexavalent Chromium	μg/kg	610	6,000 ^e	2.0	6,000	-	1,000	6,000	_*	No
100-C-9:3_Deep_Focused	Indeno(1,2,3-cd)pyrene	μg/kg	5,600	_c	2.0 .	_c		330	-	_c	-
100-C-9:3_Deep_Focused	Isophorone	μg/kg	280	178	2.0	89		330	330	RDL	No
100-C-9:3_Deep_Focused	Molybdenum	μg/kg	640	563,885	2.0	281,942	470	2,000	281,942	Scaled GWP SSL	No
100-C-9:3_Deep_Focused	Naphthalene	μg/kg	2,100 35,000	6,798 3.89E+08	2.0	3,399 1.95E+08	-	330	3,399	Scaled GWP SSL Scaled GWP SSL	No No
100-C-9:3_Deep_Focused	Pyrene	μg/kg	55,000	3.095+08	2.0	1.535708		330	194,500,000	Scaled GWP SSL	NO

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	1000			(With Background Cor		or mount out out a contract in a				
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\binom{\mu g}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soll Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name		(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?
116-B-1_Deep	Hexavalent Chromium	μg/kg	363	6,000 ^e	20	6,000	- 42	1,000	6,000		No
116-B-1_Deep	Mercury Americium-241	μg/kg	0.052	1.34E+07	20	671,543	13	200	671,543	Scaled GWP SSL	No
116-B-1_Deep	Cesium-137	pCi/g				_ C	-	1			Mon
116-B-1_Deep	Cobalt-60	pCi/g	3.1 0.17	_c	20	C C	1.1	0.1	-	c	-
116-B-1_Deep	Europium-152	pCi/g		_c	20	C C	0.0084	0.05	-		-
116-B-1_Deep		pCi/g	7.1	C C		C C		0.1	-	C C	
116-B-1_Deep	Europium-154	pCi/g	0.36	c	20	_c	0.033	0.1	**	C C	-
116-B-1_Deep	Plutonium-239/240	pCi/g	0.22 1.4	2,121	20	106	0.025 0.18	1	0.100	E Carlos Control Col	-
116-B-1_Deep	Total beta radiostrontium Uranium-234	pCi/g	1.1	2,121	20			1	0,106	Scaled GWP SSL	No
116-B-1_Deep	Hexavalent Chromium		1,613	6,000°	11	6,000	1.1	1,000	6,000	-	N.
116-B-1_Shallow		μg/kg	1,613	6,000° 1.34E+07	11	1.24E+06	13	200	1,243,598	Scaled GWP SSL	No No
116-B-1_Shallow	Mercury Cobalt-60	μg/kg pCi/g	0.11	1.34E+U/	11	1.24E+06	0.0084	0.05	1,243,598	Scaled GWP SSL	No
116-B-1_Shallow 116-B-1_Shallow	Europium-152	pCi/g	0.75	e c	11	_ C	0.0084	0.05		c c	
	Europium-154	pCi/g	0.73	_c	11	c	0.033	0.1		c	-
116-B-1_Shallow	Plutonium-239/240			_c	11	c			-	C C	-
116-B-1_Shallow	Chromium	pCi/g	0.031	c	8.4	C C	0.025	1 1 000	**	c	
116-B-10_Shallow		μg/kg	23,800	1.34E+07	8.4	1.60E+06	18,500 13	1,000	1 500 012		NI-
116-B-10_Shallow 116-B-10_Shallow	Mercury Cobalt-60	μg/kg pCi/g	1,300 0.080	1.34E+07	8.4	c	0.0084	0.05	1,598,912	Scaled GWP SSL	No
	Europium-152	pCi/g	0.053	_c	8.4	c	0.0064	0.03		G C	-
116-B-10_Shallow	Chromium		231,428	_c	86	c		1,000		_c	-
116-B-11_Deep	Hexavalent Chromium	μg/kg			86	6,000	18,500				-
116-B-11_Deep	Lead Lead	μg/kg	1,226	6,000 ^e		6,000		1,000	6,000		No
116-B-11_Deep		μg/kg	11,745	1.34E+07	86 86	156,719	10,200	5,000 200	156 710	32 CM/D L-1-2	N-
116-B-11_Deep	Mercury Total_U_Isotopes	μg/kg	5,251 4,297	1.34E+07	86	156,719 f	13 3,210	200	156,719	Scaled GWP SSL	No
116-B-11_Deep	Americium-241	μg/kg pCi/g	5.1	c	86	c	3,210	1		- C	-
116-B-11_Deep	Cesium-137			e							-
116-8-11_Deep	Cobalt-60	pCi/g	122	C C	86		1.1	0.1	**		-
116-B-11_Deep		pCi/g	40		86	_c	0.0084	0.05	-	c	-
116-B-11_Deep	Europium-152	pCi/g	325	~c	86	_e		0.1	que.	c	apriler Committee Committe
116-B-11_Deep	Europium-154	pCi/g	42	c	86	c	0.033	0.1		_c	three
116-B-11_Deep	Europium-155	pCi/g	2.2	_c	86	_c	0.054	0.1	40	_c	
116-B-11_Deep	Nickel-63	pCi/g	2,702	e	86	_c		30		-c	
116-B-11_Deep	Plutonium-238	pCi/g	0.76	_c	86	C	0.0038	1		_c	pan
116-B-11_Deep	Plutonium-239/240	pCi/g	19	c	86	_c	0.025	1	-	_c	-
116-B-11_Deep	Total beta radiostrontium	pCi/g	4.8	2,121	86	25	0.18	1	0,025	Scaled GWP 55L	No
116-B-11_Deep	Uranium-234	pCi/g		_E	86	t	1.1	1	E44	-	
116-B-11_Deep	Uranium-238	pCi/g	1.4	8	86	_t	1.1	1		-	-
116-B-11_Shallow	Hexavalent Chromium	μg/kg	1,670	6,000 ^e	6.8	6,000		1,000	6,000		No
116-B-11_Shallow	Mercury	μg/kg		1.34E+07	6.8	1.98E+06	13	200	1,975,127	Scaled GWP SSL	No
116-B-11_Shallow	Total_U_Isotopes	μg/kg		f	6.8	f	3,210		-	-	-
116-B-11_Shallow	Americium-241	pCi/g	0.094	c	6.8		-	1 0.05			
116-B-11_Shallow	Cobalt-60	pCi/g	0.28	e	6.8		0.0084	0.05	-	e C	-
116-B-11_Shallow	Europium-152	pCi/g	1.9	c	6.8		and a	0.1			-
116-B-11_Shallow	Nickel-63	pCi/g	22	c	6.8	e	-	30	-	c	
116-B-11_Shallow	Plutonium-239/240	pCi/g		, c	6.8	_c	0.025	1		_c	
116-B-11_Shallow	Total beta radiostrontium	pCi/g	0.34	2,121	6.8	312	0.18	1	0,312	Scaled GWP 5SL	No
116-B-11_Shallow	Uranium-234	pCi/g			6.8		1.1	1	-	-	stree .
116-B-11_Shallow	Uranium-238	pCi/g			6.8		1.1	1	* 000	-	nie .
116-B-12_Deep	Hexavalent Chromium	μg/kg		6,000°	15	6,000	-	1,000	6,000	*	No
116-B-13_Shallow	Mercury	μg/kg	20	1.34E+07	25	545,970	13	200	545,970	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				(1	With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection" $\left(\frac{yg}{kg}\cdot m\ or \frac{pCt}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCi/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	is EPC > Soil Screening Level Protective of Groundwater?
116-B-13_Shallow	Americium-241	pCi/g	0.49	_c	25	c	(µg/kg or pci/g)	(µg/ кg ог рс//g)	(µg/kg or pci/g)	Selected GWF 33E basis	diodilawater:
116-B-13_Shallow	Plutonium-239/240	pCi/g	0.43	_c	25	c	0.025	1		_ c	
116-B-13 Shallow	Total beta radiostrontium	pCi/g	0.41	2,121	25	86	0.025	1	0,086	Scaled GWP SSL	No
116-B-14_Deep	Antimony	μg/kg	6,600	1.19E+07	3.6	3.30E+06	130	600	3,304,952	Scaled GWP SSL	No
116-B-14_Deep	Chromium	μg/kg	18,600	c	3.6	c	18,500	1,000		_c	
116-B-14_Deep	Hexavalent Chromium	μg/kg	252	6,000 ^e	3.6	6,000		1,000	6,000		No
116-B-14_Deep	Mercury	μg/kg	18	1.34E+07	3.6	3.73E+06	13	200	3,730,795	Scaled GWP SSL	No
116-B-14_Deep	Cesium-137	pCi/g	5.9	_6	3.6	5.752.00	1.1	0.1		_c	
116-B-14_Deep	Europium-152	pCi/g	1.3	_c	3.6	c		0.1		_c	-
116-B-14_Deep	Plutonium-239/240	pCi/g	0.10	_c	3.6	e		1		_c	
116-B-14_Deep	Total beta radiostrontium	pCi/g	1.5	2,121	3.6	589	0.025 0.18	1	0,589	Scaled GWP SSL	No
116-B-14_Shallow	Chromium	μg/kg	33,600	2,121	3.4	269	18,500	1,000	0,363	_c	
116-B-14_Shallow	Hexavalent Chromium	μg/kg	297	6,000 ^e	3.4	6,000	18,500	1,000	6,000	-	No
116-B-14_Shallow	Lead	μg/kg	20,000	c	3.4	c	10,200	5,000		c	140
116-B-14_Shallow	Mercury		30	1.34E+07	3.4	3.95E+06	10,200	200	3,950,253	Scaled GWP SSL	No
116-B-14_Shallow	Total_U_Isotopes	μg/kg μg/kg	4,346	1.34E+07	3.4	3.93E+00	3,210	200	3,530,233	Scaled GVVF 33L	
116-B-14_Shallow	Americium-241	pCi/g	0.26	_c	3.4	e	3,210	1		_c	
116-B-14_Shallow	Europium-152	pCi/g	4.4	c	3.4			0.1		c	
	Plutonium-239/240			c			-				
116-B-14_Shallow		pCi/g	0.37		3.4	c	0.025	1	0.534		——————————————————————————————————————
116-B-14_Shallow	Total beta radiostrontium Uranium-234	pCi/g	1.6	2,121	3.4	624	0.18	1	0,624	Scaled GWP 5SL	No
116-B-14_Shallow		pCi/g	1.5		3.4	6	1.1	1	_		-
116-B-14_5hallow	Uranium-238	pCi/g	1.5		3.4		1.1	1			-
116-B-15_Shallow_Focused	Nickel-63	pCi/g		c	18	¢	ana	30	**		-
116-B-2_Deep	Americium-241	pCi/g		c	15	_c		1		c	-
116-B-2_Deep	Cesium-137	pCi/g	47	c	15	_c	1.1	0.1	***	c	-
116-B-2_Deep	Cobalt-60	pCi/g	0.023	_c	15	_c	0.0084	0.05		e	_
116-B-2_Deep	Europium-152	pCi/g	0.60	_c	15	_c		0.1		c	-
116-B-2_Deep	Plutonium-239/240	pCi/g	0.59	-c	15	-c	0.025	1	46.00	_c	
116-B-2_Deep	Total beta radiostrontium	pCi/g	7.2	2,121	15	142	0.18	1	0,142	Scaled GWP SSL	No
116-B-2_Shallow	Cesium-137	pCi/g	1.2	_c	7 .7	c	1.1	0.1		c	_
116-B-2_Shallow	Total beta radiostrontium	pCi/g	0.32	2,121	7 .7	275	0.18	1	0,275	Scaled GWP SSL	No
116-B-3_Deep	Mercury	μg/kg	20	1.34E+07	2.2	6.10E+06	13	200	6,104,937	Scaled GWP SSL	No
116-B-3_Deep	Cesium-137	pCi/g	20	_c	2.2	c	1.1	0.1	desp	_c	
116-B-3_Deep	Plutonium-239/240	pCi/g	0.26	_c	2.2	_c	0.025	1		c	_
116-B-3_Deep	Total beta radiostrontium	pCi/g		2,121	2.2	964	0.18	1	0,964	Scaled GWP SSL	No
116-B-3_Shallow	Mercury	μg/kg	50	1.34E+07	6.5	2.07E+06	13	200	2,066,286	Scaled GWP SSL	No
116-B-4_Deep	Acetone	μg/kg	12	17,372	39	447	420	20	0,447	Scaled GWP SSL	No
116-B-4_Deep	Antimony	μg/kg		1.19E+07	39	305,857	130	600	305,857	Scaled GWP 5SL	No
116-B-4_Deep	Aroclor-1254	μg/kg	130	c	39			17			-
116-B-4_Deep	Bis(2-ethylhexyl) phthalate	μg/kg	290	C	. 39	^c	100	330		c	
116-B-4_Deep	Chromium	μg/kg	92,716	e.C	39	_c	18,500	1,000		c	-
116-B-4_Deep	Hexavalent Chromium	μg/kg	423	6,000 ^e	39	6,000	-	1,000	6,000	_e	No
116-B-4_Deep	Lead	μg/kg	94,296	_c	39	_c	10,200	5,000	***	C	
116-B-4_Deep	Mercury	μg/kg	440	1.34E+07	39	345,266	13	200	345,266	Scaled GWP SSL	No
116-B-4_Deep	Methylene chloride	μg/kg		14	39	0.35		5	5	RDL	Yes
116-B-4_Deep	Silver	μg/kg	720	27,530	39	708	167	200	0,708	Scaled GWP SSL	Yes
116-B-4_Deep	Americium-241	pCi/g	0.070	c	39	c	-	1		e	
116-B-4_Deep	Cesium-137	pCi/g		_c	39	_c	1.1	0.1		aC	
116-B-4_Deep	Cobalt-60	pCi/g		-c	39	_c	0.0084	0.05	-	C	-
116-B-4_Deep	Europium-152	pCi/g		_c	39	_c	TO SECOND	0.1		c	
116-B-4_Deep	Europium-154	pCi/g	45	⊸c	39	c	0.033	0.1		c	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Exposure Point Concentration Exposure Point Concentration					(With Background Cor						
West				Concentration	70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater	Direction of Groundwater Flow	Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Background Value				is EPC > Soil Screening Level Protective of
1864-8 1869-9 1												Groundwater?
1514 4_Julius										-		-
1164 4 July 2006 Propriet Pro										-		-
118-5 Peng Fromes	116-B-4_Shallow	Plutonium-238		0.37				0.0038		-		-
11645_Progressed	116-B-4_Shallow	Plutonium-239/240										
1146-5, Peng Founded Europher-152			μg/kg							725,992		No
1865, Perfected European 356 European 366 E								0.0084		-		-
146.5 3,940e 7,0000 1,	116-B-5_Deep_Focused	Europium-152		10.0						der .		-
1865 3.00 2.00	116-B-5_Deep_Focused	Europium-154	pCi/g	0.88	~°c	19				-		
1466 5,940m Content												
146.5 5.00												No
146-5 3-100 Foreign 154 5 3-100 5 5 5 5 5 5 5 5 5	116-B-5_Shallow_Focused											-
1164-5, 9. 1	116-B-5_Shallow_Focused	Cobalt-60		1.0				0.0084		-		
1164-5 1164-6 1	116-B-5_Shallow_Focused	Europium-152	pCi/g	7.3	_c	38	c	-	0.1	-		-
186-64_Open	116-B-5_Shallow_Focused	Europium-154	pCi/g	0.67	_c	38	- C	0.033	0.1	-	_c	-
146-84_Deep	116-B-5_Shallow_Focused	Tritium	pCi/g	680	60	38		-	10	10		Yes
1100-9-0.0 100-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	116-B-6A_Deep	Americium-241	pCi/g	0.16	_c	11	-c	-	1	**	_c	-
116-94 A. Deep	116-B-6A_Deep	Cesium-137	pCi/g	2.0	_c	11	-c	1.1	0.1	-	_c	-
136-946, Neeps	116-B-6A_Deep	Plutonium-239/240	pCi/g	2.8	_c	11	_c	0.025	1	-	c	
116-84 Ablillow		Total beta radiostrontium		21	2,121	11	193	0.18	1	0,193	Scaled GWP SSL	No
18-84 A Jahlow Mercury 19/18 20 1.14-07 7.9 1.700-06 13 200 1.700,109 5.04-06 MPS. No.	116-B-6A_Shallow	Lead	μg/kg	11,100	_c	7.9	c	10,200	5,000	-	_c	-
116-84, Shallow Celum-337 Orly 37	116-B-6A_Shallow	Mercury			1.34E+07	7.9	1.70E+06	13	200	1,700,109	Scaled GWP SSL	No
116-8-6, Mallow Total beta radiostrontium SUIS 3.3 2,121 7.9 288 0.18 1 0.288 Saled GWP SSL No	116-B-6A_Shallow	Cesium-137		37	c	7.9	_c	1.1	0.1	-	c	-
116-8-6	116-B-6A Shallow	Plutonium-239/240	pCi/g	0.23	_e	7.9	_c	0.025	1	-	-c	-
116-94 A Shallow Uraninum-239/2344 pc/lg 1.4 1	116-B-6A_Shallow	Total beta radiostrontium			2,121	7.9	268	0.18	1	0,268	Scaled GWP SSL	No
1319-86_5 131-06_6	116-B-6A_Shallow	Uranium-233/234			_1	7.9	_8	1.1	1	-	-	-
136-86 136-90 Mercury Myfu	116-B-6A Shallow	Uranium-235	pCi/g	0.28	3	7.9	E	0.11	0.5	**	-	-
116-6-7, 132-0-6, 132-0-2, Deep Hoxwardert Chromium 18/8 25,000 13 18,500 .1,0000	116-B-6B Shallow	Mercury			1.34E+07	8.6	1.56E+06	13	200	1,561,728	Scaled GWP SSL	No
116-8-7, 132-8-6, 132-C-2, Deep	116-B-7, 132-B-6, 132-C-2_Deep	Chromium			-c	13	_c	18,500	1,000	~	*c	-
116-6-7, 132-6-6, 132-C-2, Deep		Hexavalent Chromium			6,000 ^e	13	6,000	-	1,000	6,000	_1	No
116-8-7, 132-8-6, 132-C2_Deep		Mercury			1.34E+07	13	1.06E+06	13	200	1,057,548	Scaled GWP SSL	No
116-8-7, 132-8-6, 132-C-2, Deep Cutoplum-152 Cutoplum-154 Cutoplum-155 Cutoplum-154 Cutoplum-155 Cutoplum-155 Cutoplum-155 Cutoplum-154 Cutoplum-155 Cutoplum-156 Cutoplum-155 Cutoplum-156	116-B-7, 132-B-6, 132-C-2_Deep	Cesium-137			6	13	-c	1.1	0.1	60	C	-
16-8P, 132-6C_Deep Europium-152 PCI/8 1.4 s 13 s		Cobalt-60			_c	13	_c	0.0084	0.05	**	_c	_
16-8-7, 132-8-6, 132-C-2_ Deep		Europium-152			c	13	_c	-	0.1	-	, c	
116-B7, 132-B6, 132-C2_Shallow Chromium Pufk		Nickel-63			_e	13	_c	-	30	-	_c	
116-B-7, 132-B-6, 132-C-2, Shallow Chromium µg/kg 19,087			- 1		2.121			0.18		0,167	Scaled GWP SSL	No
116-B-7, 132-B-6, 132-C-2_Shallow Hexavelent Chromium µg/kg 688 6,000° 21 6,000 — 1,000 6,000 — No 116-B-7, 132-B-6, 132-C-2_Shallow Mercury µg/kg 63 1,344-07 21 642,625 13 200 642,625 Scaled GWP SSL No 116-B-7, 132-B-6, 132-C-2_Shallow Cobalt-60 pCl/g 0.25 — 21 — 0.0084 0.05 — — — — 116-B-7, 132-B-6, 132-C-2_Shallow Europium-152 pCl/g 1.9 — 21 — — 0.033 0.1 — — — — 116-B-7, 132-B-6, 132-C-2_Shallow Europium-154 pCl/g 0.22 — 21 — — 0.033 0.1 — — — — 116-B-7, 132-B-6, 132-C-2_Shallow Nickel-G3 pCl/g 3.6 — 21 — — 0.033 0.1 — — — — 116-B-7, 132-B-6, 132-C-2_Shallow Nickel-G3 pCl/g 3.6 — 21 — — — 30 0.1 — — — — 116-B-9, 132-B-6, 132-C-2_Shallow Mercury Mercury <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>18,500</td><td>1,000</td><td></td><td></td><td></td></t<>								18,500	1,000			
116-B-7, 132-B-6, 132-C-2, Shallow Mercury					6.000°		6,000		1,000	6,000		No
116-B-7, 132-B-6, 132-C-2_shallow		a terminal designation and										
116-B-7, 132-B-6, 132-C-2 Shallow Europium-152												-
116-B-7, 132-B-6, 132-C-2, Shallow Europium-154 pc//g 0.22												_
116-B-7, 132-B-6, 132-C-2_Shallow Nickel-63												
116-8-9 Shallow Lead µg/kg 12,000 -° 7.1 -° 10,200 5,000 - -° - - 116-8-9 Shallow Mercury µg/kg 390 1.34E+07 7.1 1.89E+06 13 200 1,891,671 Scaled GWP SSL No 116-C-1 Deep Chromium µg/kg 66,667 -° 58 -° 18,500 1,000 - -° -° No 116-C-1 Deep Hexavalent Chromium µg/kg 497 6,000° 58 6,000 - 1,000 6,000 -° No 116-C-1 Deep Lead µg/kg 21,737 -° 58 -° 10,200 5,000 - -° - -° 116-C-1 Deep No - - -° - - - - - - - - - - - - - - - No - - - - - - - - - - - - - - - -												1
116-8-9 Shallow Mercury μg/kg 390 1.34E+07 7.1 1.89E+06 13 200 1,891,671 Scaled GWP SSL No 116-C-1 Deep Chromium μg/kg 66,667 -° 58 -° 18,500 1,000 - -° -° 1.000 - -° No - -° No 1.000 6,000 -° No No - -° No 1.000 5,000 - -° No -° 1.000 5,000 -° -° No 1.000 5,000 - -° -° No -° -° 1.000 5,000 - -°												
116-C-1_Deep Chromium μg/kg 66,667 -												
116-C-1_Deep Hexavalent Chromium												
116-C-1_Deep Lead μg/kg 21,737c 58c 10,200 5,000cc 116-C-1_Deep Mercury μg/kg 2,275 1.34Ε+07 58 233,580 13 200 233,580 Scaled GWP SSL No 116-C-1_Deep Total_U_Isotopes μg/kg 34,266f 58f 3,210						_						
116-C-1 Deep Mercury μg/kg 2,275 1.34E+07 58 233,580 13 200 233,580 Scaled GWP SSL No 116-C-1 Deep Total_U_Isotopes μg/kg 34,266 - 58 - 3,210	7											
116-C-1_Deep Total_U_Isotopes µg/kg 34,266' 58' 3,210												

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCl}{g} \cdot m\right)$	Site Width In Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
116-C-1_Deep	Cesium-137	pCi/g	1,484	_c	58	_c	1.1	0.1	**	C C	
116-C-1_Deep	Cobalt-60	pCi/g	62	_c	58	_c	0.0084	0.05	040	C	-
116-C-1_Deep	Europium-152	pCi/g	412	_c	58	_c		0.1	-	C	-
116-C-1_Deep	Europium-154	pCi/g	28	_c	58	_c	0.033	0.1	-	-¢	-
116-C-1_Deep	Europium-155	pCi/g	1.6	C	58	-c	0.054	0.1	-	_ c	
116-C-1_Deep	Nickel-63	pCi/g	634	-c	58	_c		30	-	C	-
116-C-1_Deep	Plutonium-238	pCi/g	0.94	-c	58	c	0.0038	1	-	_c	-
116-C-1_Deep	Plutonium-239/240	pCi/g	46	_c	58	_c	0.025	1	-	-c .	-
116-C-1_Deep	Total beta radiostrontium	pCi/g	64	2,121	58	37	0.18	1	0,037	Scaled GWP SSL	Yes
116-C-1_Deep	Uranium-234	pCi/g	5.1	1,	58	1	1.1	1	-		
116-C-1_Deep	Uranium-238	pCi/g	6.1	!	58	t	1.1	1			-
116-C-1_Deep_Focused	Antimony	μg/kg	2,600	1.19E+07	58	206,919	130	600	206,919	Scaled GWP SSL	No
116-C-1_Deep_Focused	Cadmium	μg/kg	2,900	1,256	58	22	1,510	50	1,510	Background Value	Yes
116-C-1_Deep_Focused	Chromium	μg/kg	148,000	_c	58	e	18,500	1,000	**	_c	-
116-C-1_Deep_Focused	Copper	μg/kg	30,400	7.69E+06	58	133,733	22,000	1,000	133,733	Scaled GWP SSL	No
116-C-1_Deep_Focused	Hexavalent Chromium	μg/kg	1,800	6,000 ^e	58	6,000	60	1,000	6,000		No
116-C-1_Deep_Focused	Lead	μg/kg	48,500	c	58	_c	10,200	5,000	-	, C	**
116-C-1_Deep_Focused	Mercury	μg/kg	11,800	1.34E+07	58	233,580	13	200	233,580	Scaled GWP 55L	No
116-C-1_Deep_Focused	Silver	μg/kg	890	27,530	58	479	167	200	0,479	Scaled GWP SSL	Yes No
116-C-1_Deep_Focused	Zinc	μg/kg	464,000	3.89E+08	58	6.77E+06	67,800	1,000	6,765,217	Scaled GWP SSL	
116-C-1_Deep_Focused	Americium-241	pCi/g	83	c	58	c	-	1	-		-
116-C-1_Deep_Focused	Cesium-137	pCi/g	5,690	c	58	c	1.1	0.1	-		-
116-C-1_Deep_Focused	Cobalt-60	pCi/g	115	c	58	c	0.0084	0.05		c	-
116-C-1_Deep_Focused	Europium-152	pCi/g	1,120	c	58	_c	-	0.1		c	-
116-C-1_Deep_Focused	Europium-154	pCi/g	144	c	58	_c	0.033	0.1		_c	
116-C-1_Deep_Focused	Nickel-63	pCi/g	1,590	And C	58	_c	-	30		c	
116-C-1_Deep_Focused	Plutonium-238	pCi/g	4.0	_c	58	C	0.0038	1		°	-
116-C-1_Deep_Focused	Plutonium-239/240	pCi/g	136	_c	58	c	0.025	1		c	~
116-C-1_Deep_Focused	Total beta radiostrontium	pCi/g	88	2,121	58	37	0.18	1	0,037	Scaled GWP SSL	Yes
116-C-1_Shallow	Mercury	μg/kg	30	1.34E+07	12	1.09E+06	13	200	1,091,940	Scaled GWP SSL	No
116-C-1_Shallow	Cobalt-60	pCi/g	0.074	_c	12	c	0.0084	0.05	-	c	
116-C-1_Shallow	Europium-152	pCi/g	1.6		12	c	-	0.1	-		
116-C-1_Shallow	Plutonium-239/240	pCi/g	0.22	c	12	c	0.025	1	0.470		No.
116-C-1_Shallow	Total beta radiostrontium	pCi/g	0.20	2,121	12	172	0.18	1	0,172	Scaled GWP SSL	No
116-C-2A_Deep	Chromium	μg/kg			14	5.000	18,500	1,000		.0	
116-C-2A_Deep	Hexavalent Chromium	μg/kg	848	6,000 ^e	14	6,000		1,000	6,000		No
116-C-2A_Deep	Lead	μg/kg		4.245.07	14	045.035	10,200	5,000	045.035		No.
116-C-2A_Deep	Mercury	μg/kg	150	1.34E+07	14	945,835	13	200	945,835	Scaled GWP SSL	No
116-C-2A_Deep	Americium-241	pCi/g	0.71	_e	14			1	-		-
116-C-2A_Deep	Cesium-137	pCi/g	23		14	_c	1.1	0.1	-		-
116-C-2A_Deep	Cobalt-60	pCi/g	12	_c	14	¢	0.0084	0.05	-		-
116-C-2A_Deep	Europium-152	pCi/g	30		14	c	-	0.1			-
116-C-2A_Deep	Europium-154	pCi/g	3.3	_c	14	_e	0.033	0.1	-	e	-
116-C-2A_Deep	Nickel-63	pCi/g	540	_c	14	c	-	30			-
116-C-2A_Deep	Plutonium-238	pCi/g	0.15	6	14		0.0038	1	**	_c	-
116-C-2A_Deep	Plutonium-239/240	pCi/g	1.5	_c	14	¢	0.025	1	-	e la la company	
116-C-2A_Deep	Total beta radiostrontium	pCi/g	6.2	2,121	14	149	0.18	1	0,149	Scaled GWP SSL	No
116-C-2A_Shallow	Mercury Cabalt 60	μg/kg	120	1.34E+07	9.8	1.37E+06	13	200 0.05	1,370,496	Scaled GWP 55L	No
116-C-2A_Shallow	Cobalt-60 Europium-152	pCi/g pCi/g	0.23	c	9.8		0.0084	0.05			

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or \frac{p\mathcal{C}l}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		Is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name Nickel-63	Units	(μg/kg or pCi/g)		(m)		(µg/kg or pCl/g)	(μg/kg or pCi/g)	(µg/kg or pCl/g)	Selected GWP SSL Basis	Groundwater?
116-C-2A_Shallow		pCi/g	4.7	¢	9.8	C		30	-	¢	-
116-C-2A_Shallow	Plutonium-239/240	pCi/g		_c	9.8	c	0.025	1	-	c	-
116-C-2A_Shallow	Total beta radiostrontium Antimony	pCi/g	1.9	2,121	9.8	216 2.38E+06	0.18	1	0,216	Scaled GWP SSL	No
116-C-3_Shallow 116-C-3_Shallow	Boron	μg/kg μg/kg		1.19E+07 348,488	5.0	69,698	3,890	2,000	2,379,565	Scaled GWP SSL	No
116-C-3_Shallow	Hexavalent Chromium	μg/kg		6,000°	5.0	6,000	-3,030	1,000	69,698	Scaled GWP SSL	No
116-C-3_Shallow	Nitrogen in Nitrite and Nitrate	μg/kg		23,943	5.0	4,789	-	750	4,789	Scaled GWP SSL	No No
116-C-3 Shallow	Carbon-14	pCi/g	_	_c	5.0	4,765	_	2	4,765	_c	NO
116-C-3_Shallow	Plutonium-239/240	pCi/g			5.0			1			
116-C-3_Shallow	Total beta radiostrontium	pCi/g	0.64	2,121	5.0	424	0.025 0.18	1	0.424		
116-C-3 Shallow	Tritium	pCi/g	7.2	60	5.0	12	U.18	10	0,424	Scaled GWP SSL Scaled GWP SSL	No No
116-C-3_Shallow_Focused	Barium	μg/kg		3.89E+08	4.6	8.46E+07	132,000	2,000	84,565,217	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Boron	μg/kg	24,300	348,488	4.6	75,758	3,890	2,000	75,758	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Chromium	μg/kg		_c	4.6	_c	18,500	1,000	-	_c	-
116-C-3 Shallow Focused	Hexavalent Chromium	μg/kg		6,000°	4.6	6,000	-	1,000	6,000		No
116-C-3_Shallow_Focused	Molybdenum	μg/kg		563,885	4.6	122,584	470	2,000	122,584	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Nitrogen in Nitrite and Nitrate	μg/kg		23,943	4.6	5,205	-	750	5,205	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Silver	μg/kg		27,530	4.6	5,985	167	200	5,985	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Americium-241	pCi/g	0.27	c	4.6	¢	-	1	-	c	-
116-C-3_Shallow_Focused	Cesium-137	pCi/g	14	_c	4.6	¢	1.1	0.1		_c	-
116-C-3_Shallow_Focused	Plutonium-239/240	pCi/g	0.91	_*	4.6	a.c	0.025	1		_c	-
116-C-3_Shallow_Focused	Total beta radiostrontium	pCi/g	18	2,121	4.6	461	0.18	1	0,461	Scaled GWP SSL	No
116-C-3_Shallow_Focused	Tritium	pCi/g	4.0	60	4.6	13	-	10	0,013	Scaled GWP SSL	No
116-C-5_Deep	Chromium	μg/kg	41,332	_c	93	¢	18,500	1,000	-	e	
116-C-5_Deep	Hexavalent Chromium	μg/kg	1,290	6,000 ^e	93	6,000	-	1,000	6,000		No
116-C-5_Deep	Lead	μg/kg		c	93	c	10,200	5,000		c	
116-C-5_Deep	Mercury	μg/kg	2,436	1.34E+07	93	144,263	13	200	144,263	Scaled GWP SSL	No
116-C-5_Deep	Americium-241	pCi/g	2.2	_¢	93	_c	_	1	-	c	-
116-C-5_Deep	Cesium-137	pCi/g	52	~°c	93	_c	1.1	0.1	-	_c	
116-C-5_Deep	Cobalt-60	pCi/g	18	_c	93	c	0.0084	0.05	_	_c	
116-C-5_Deep	Europium-152	pCi/g	73	_c	93	_t	-	0.1	_	_c	
116-C-5_Deep	Europium-154	pCi/g	16	c	93	_t	0.033	0.1	-	, c	
116-C-5_Deep	Europium-155	pCi/g		_c	93	c	0.054	0.1		E	_
116-C-5_Deep	Nickel-63	pCi/g	644	_c	93	c	0.034	30		c	
116-C-5_Deep	Plutonium-238	pCi/g		_c	93	_c	0.0038	1			-
116-C-5_Deep	Plutonium-239/240	pCi/g			93		0.025	1	-		-
116-C-5_Deep	Total beta radiostrontium	pCi/g		2,121	93	23	0.025	1	0,023	Scaled GWP SSL	N
116-C-5_Shallow	Hexavalent Chromium	μg/kg		6,000°	10	6,000	- 0.16	1,000	6,000	_e	No
116-C-5_Shallow	Mercury	μg/kg		1.34E+07	10	1.29E+06	13	200	1,291,429	Scaled GWP SSL	No
116-C-5_Shallow	Americium-241	pCi/g			10	1.255,00	-	1	1,231,423	scaled GWP 33L	No
116-C-5_Shallow	Cesium-137	pCi/g			10		1.1	0.1			
116-C-5_Shallow	Cobalt-60				10	c		0.05		_c	
116-C-5_Shallow	Europium-152	pCi/g					0.0084				
116-C-5_Shallow	Europium-154	pCi/g			10	e	-	0.1	-	c	-
116-C-5_Shallow		pCi/g		c	10	c	0.033	0.1		c	_
	Nickel-63	pCi/g		c	10	¢		30	-	c	
116-C-5_Shallow	Plutonium-239/240	pCi/g		-c	10	-c	0.025	1	0.704	c	
116-C-5_Shallow	Total beta radiostrontium	pCi/g		2,121	10	204	0.18	1	0,204	Scaled GWP SSL	No
116-C-6_Shallow_Focused	Americium-241	pCi/g		e	2.4	_c	-	1	-	¢	-
116-C-6_Shallow_Focused	Cesium-137	pCi/g	1.9	_e	2.4		1.1	0.1	-	c	**
116-C-6_Shallow_Focused	Europium-152	pCi/g		¢	2.4	_c	-	0.1	-	_6	-
116-C-6_Shallow_Focused	Nickel-63	pCi/g	5.4	_e	2.4	_c		30	-	¢	_

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	(With Background Consideration)											
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg} \cdot m \ or \frac{p\mathcal{C}l}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL	Salara d GND SSI Back	Is EPC > Soil Screening Level Protective of	
Waste Site/Decision Unit	Analyte Name	Units	(μg/kg or pCi/g)		(m)		(µg/kg or pCi/g)	(μg/kg or pCi/g)	(μg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?	
116-C-6_Shallow_Focused	Plutonium-239/240	pCi/g	0.53	¢	2.4	c	0.025	1				
116-C-6_Shallow_Focused	Total beta radiostrontium	pCi/g	0.46	2,121	2.4	884	0.18	1	0,884	Scaled GWP SSL	No No	
118-B-1_Shallow_1	4-Methyl-2-pentanone	μg/kg	8.0	1,783	37	48	-	20	0,048	Scaled GWP SSL	No	
118-B-1_Shallow_1	Acetone	μg/kg	23	17,372 c	37	465				Scaled GWP SSL		
118-B-1_Shallow_1	Bis(2-ethylhexyl) phthalate	μg/kg	240		37	_c		330 330	2,366		No.	
118-B-1_Shallow_1	Di-n-butylphthalate	μg/kg	19	88,471	37	2,366		200	359,114	Scaled GWP SSL Scaled GWP SSL	No No	
118-B-1_Shallow_1	Mercury	μg/kg	20	1.34E+07	37 37	359,114 0.36	13	5	5	RDL RDL	Yes	
118-B-1_Shallow_1	Methylene chloride Carbon-14	μg/kg	15	14		U.36			-	RUL_C		
118-B-1_Shallow_1		pCi/g	3.4	-c	37			2			_	
118-B-1_Shallow_1	Europium-152	pCi/g	1.2	c	37	-c		0.1		_c		
118-B-1_Shallow_1	Total beta radiostrontium	pCi/g	0.28	2,121	37	57	0.18	1	0,057	Scaled GWP SSL	No	
118-B-1_Shallow_1	Tritium	pCi/g	239	60	37	1.6	2.000	10	10	RDL Seeled CMP SSI	Yes	
118-B-1_Shallow_2	Boron	μg/kg	5,500	348,488	6.1	57,129	3,890	2,000	57,129	Scaled GWP SSL	No	
118-B-1_Shallow_2	Hexavalent Chromium	µg/kg	330	6,000 ^e	6.1	6,000	-	1,000	6,000	e	No	
118-B-1_Shallow_2	Total beta radiostrontium	pCi/g	0.25	2,121	6.1	348	0.18	1	0,348	Scaled GWP SSL	No	
118-B-1_Shallow_2	Tritium	pCi/g	60	60	6.1	9.8	-	10	10	RDL	Yes	
118-B-1_Shallow_3	4-Methyl-2-pentanone	μg/kg	6.0	1,783	9.8	182	-		0,182	Scaled GWP SSL	No	
118-B-1_Shallow_3	Acetone	μg/kg	16	17,372	9.8	1,773	-	20	1,773	Scaled GWP 5SL	No	
118-B-1_Shallow_3	Bis(2-ethylhexyl) phthalate	μg/kg	39	_c	9.8	c		330		C	-	
118-B-1_Shallow_3	Boron	μg/kg	8,900	348,488	9.8	35,560	3,890	2,000	35,560	Scaled GWP SSL	No	
118-B-1_Shailow_3	Carbon tetrachloride	μg/kg	11	5.0	9.8	0.51	-	5	5	RDL	Yes	
118-B-1_Shallow_3	Di-n-butylphthalate	μg/kg	54	88,471	9.8	9,028	-	330	9,028	Scaled GWP SSL	No	
118-B-1_Shallow_3	Hexavalent Chromium	μg/kg	210	6,000 ^e	9.8	6,000	-	1,000	6,000	e	No	
118-B-1_Shallow_3	Mercury	μg/kg	300	1.34E+07	9.8	1.37E+06	13	200	1,370,496	Scaled GWP SSL	No	
118-B-1_Shallow_3	Methylene chloride	μg/kg	26	14	9.8	1.4	-	5	5	RDL	Yes	
118-B-1_Shallow_3	Cesium-137	pCi/g	1.5	_c	9.8	_c	1.1	0.1		_c		
118-B-1_Shallow_3	Total beta radiostrontium	pCi/g	4.4	2,121	9.8	216	0.18	1	0,216	Scaled GWP SSL	No	
118-B-1_Shallow_3	Tritium	pCi/g	19	60	9.8	6.1	-	10	10	RDL	Yes	
118-B-1_Shallow_4	2,4-D(2,4-Dichlorophenoxyacetic acid)	μg/kg	13	400	17	23	-	400	400	RDL	No	
118-B-1_Shallow_4	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	μg/kg	19	705	17	41	-	100	100	RDL	No	
118-B-1_Shallow_4	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	16	c	17	_c		3.3		c		
118-B-1_Shallow_4	Acetone	μg/kg	19	17,372	17	1,010	-	20	1,010	Scaled GWP SSL	No	
118-B-1_Shallow_4	Aroclor-1254	μg/kg		_c	17	-6	-	17		_c	-	
118-B-1_Shallow_4	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	μg/kg	7.8	3.8	17	0.22	-	1.7	1.7	RDL	Yes	
118-8-1_Shallow_4	Bis(2-ethylhexyl) phthalate	μg/kg	600	_c	17	~°c	-	330		_c	_	
118-B-1_Shallow_4	Boron	μg/kg	3,900	348,488	17	20,261	3,890	2,000	20,261	Scaled GWP SSL	No	
118-B-1_Shallow_4	Carbon tetrachloride	μg/kg	17	5.0	17	0.29	-	5	5	RDL	Yes	
118-B-1_Shallow_4	Chlordane	μg/kg	2.5	1.42E+06	17	82,619	-	1.7	82,619	Scaled GWP SSL	No	
118-B-1_Shallow_4	Dalapon	μg/kg		499	17	29	-	100	100	RDL	No	
118-B-1_Shallow_4	Dieldrin	μg/kg		166	17	9.7	-	3.3	0,010	Scaled GWP SSL	No	
118-B-1_Shallow_4	Diethylphthalate	μg/kg		63,829	17	3,711	-	330	3,711	Scaled GWP SSL	No	
118-B-1_Shallow_4	Di-n-butylphthalate	μg/kg		88,471	17	5,144	-	330	5,144	Scaled GWP SSL	No	
118-B-1_Shallow_4	Endrin	μg/kg		1,219	17	71	-	3	0,071	Scaled GWP SSL	No	
118-B-1_Shallow_4	Hexavalent Chromium	μg/kg		6,000 ^e	17	6,000	-	1,000	6,000		No	
118-B-1_Shallow_4	Methylene chloride	μg/kg		14	17	0.79		5	5	RDL	Yes	
118-B-1_Shallow_4	Phenol	μg/kg	26	7,909	17	460	-	330	0,460	Scaled GWP SSL	No	
118-B-1_Shallow_5	Acetone	μg/kg		17,372	33	525	-	20	0,525	Scaled GWP SSL	No	
118-B-1_Shallow_5	Bis(2-ethylhexyl) phthalate	μg/kg		~c	33	_c		330		_c	-	
118-B-1_Shallow_5	Hexavalent Chromium	μg/kg		6,000°	33	6,000	-	1,000	6,000	_*	No	
118-B-1_Shallow_5	Mercury	μg/kg		1.34E+07	33	405,766	13	200	405,766	Scaled GWP SSL	No	
118-B-1_Shallow_5	Methylene chloride	μg/kg		14	33	0.41	-	5	5	RDL	Yes	
118-B-1_Shallow_5	Cesium-137	pCi/g		_c	33		1.1	0.1	-	_c		
118-B-1_Shallow_5	Total beta radiostrontium	pCi/g		2,121	33	64	0.18	1	0,064	Scaled GWP SSL	No	
118-B-1_Shallow_6	2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	μg/kg	12	415	8.6	48	-	20	0,048	Scaled GWP SSL	No	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

				ſ	With Background Cor	nsideration)					
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{yg}{kg} \cdot m \text{ or } \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		Is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name		(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(μg/kg or pCl/g)	Selected GWP SSL Basis	Groundwater?
118-B-1_Shallow_6	2,4-D(2,4-Dichlorophenoxyacetic acid)	μg/kg	62	400	8.6	47		400	400	RDL	No
118-B-1_Shallow_6	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	μg/kg		705	8.6	82 2,020	**	100	100	RDL	No
118-B-1_Shallow_6	Acetone Aldrin	μg/kg		17,372 9,878	8.6 8.6	1,149		20 1.7	2,020 1,149	Scaled GWP SSL	No No
118-B-1_Shallow_6 118-B-1_Shallow_6	Bis(2-ethylhexyl) phthalate	μg/kg		5,076	8.6	_c	100	330		Scaled GWP SSL	
	484	μg/kg	8,800	348,488	8.6	40,522	3,890	2,000	40.533		- No
118-B-1_Shallow_6 118-B-1_Shallow_6	Boron Butylbenzylphthalate	μg/kg		60,438	8.6	7,028	3,890	330	40,522 7,028	Scaled GWP SSL Scaled GWP SSL	No No
118-B-1 Shallow 6	Carbon tetrachloride	μg/kg		5.0	8.6	0.58		5	5	RDL RDL	Yes
118-B-1_Shallow_6	Dalapon	μg/kg μg/kg		499	8.6	58		100	100	RDL	No
118-B-1_Shallow_6	Di-n-butylphthalate	μg/kg		88,471	8.6	10,287	-	330	10,287	Scaled GWP SSL	No
118-B-1_Shallow_6	Hexavalent Chromium	μg/kg		6,000°	8.6	6,000	_	1,000	6,000	Scaled GVV 33L	
118-B-1_Shallow_6	Mercury	μg/kg μg/kg		1.34E+07	8.6	1.56E+06	13	200	1,561,728	Scaled GWP SSL	No No
118-B-1_Shallow_6 118-B-1_Shallow_6	Methylene chloride	μg/kg μg/kg		1.346+07	8.6	1.561+06		5	1,561,728	RDL RDL	No Yes
118-B-1_Shallow_6	Phenol	μg/kg μg/kg		7,909	8.6	920		330	0,920	Scaled GWP SSL	No Yes
118-B-1 Shallow 6	Tritium	pCi/g		60	8.6	6.9	-	10	10	RDL	No
118-B-1 Shallow 7	2,4-D(2,4-Dichlorophenoxyacetic acid)	μg/kg		400	55	7.3		400	400	RDL	No
118-B-1 Shallow 7	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	μg/kg		705	55	13	-	100	100	RDL	No
118-B-1 Shallow 7	2-Methylnaphthalene	μg/kg		2,896	55	53		330	330	RDL	No
118-B-1_Shallow_7	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg			55	_c	-	3.3	-	_c	-
118-B-1_Shallow_7	4-Amino-3,5,6-trichloropicolinic acid	μg/kg		1,806	55	33			0,033	Scaled GWP SSL	No
118-B-1 Shallow 7	Acetone	μg/kg		17,372	55	316	-	20	0,316	Scaled GWP SSL	No
118-B-1 Shallow 7	Alpha-Chlordane	μg/kg		1.42E+06	55	25,837	-	17	25,837	Scaled GWP SSL	No
118-B-1_Shallow_7	Barium	μg/kg		3.89E+08	55	7.07E+06	132,000	2,000	7,072,727	Scaled GWP SSL	No
118-B-1 Shallow 7	Boron	μg/kg		348,488	55	6,336	3,890	2,000	6,336	Scaled GWP SSL	Yes
118-B-1 Shallow 7	Carbon tetrachloride	μg/kg		5.0	55	0.091		5	5	RDL	Yes
118-B-1 Shallow 7	Copper	μg/kg	25,700	7.69E+06	55	139,811	22,000	1,000	139,811	Scaled GWP SSL	No
118-B-1 Shallow 7	Dalapon	μg/kg		499	55	9.1		100	100	RDL	No
118-8-1 Shallow 7	Dicamba	μg/kg		1,582	55	29	449	100	100	RDL	No
118-B-1 Shallow 7	Dieldrin	μg/kg	1.7	166	\$5	3.0	-	3.3	3.3	RDL	No
118-B-1_Shallow_7	Diethylphthalate	μg/kg	25	63,829	55	1,161	-	330	1,161	Scaled GWP SSL	No
118-B-1_Shallow_7	Hexavalent Chromium	μg/kg	300	6,000 ^e	55	6,000	-	1,000	6,000	_•	No
118-B-1_Shallow_7	Lead	μg/kg	12,900	_c	55	_c	10,200	5,000		_e	
118-B-1 Shallow 7	Mercury	μg/kg	20	1.34E+07	55	244,197	13	200	244,197	Scaled GWP SSL	No
118-B-1_Shallow_7	Methoxychlor	μg/kg		_c	55	_c		20		C	
118-B-1_Shallow_7	Methylene chloride	μg/kg	10	14	55	0.25		5	5	RDL	Yes
118-B-1 Shallow 7	Molybdenum	μg/kg	2,100	563,885	55	10,252	470	2,000	10,252	Scaled GWP SSL	No
118-B-1_Shallow 7	Naphthalene	μg/kg	19	6,798	55	124		330	330	RDL RDL	No
118-B-1_Shallow_7	Europium-152	pCi/g		_c	55	_c		0.1	***	_c	**
118-B-1 Shallow Focused	Acetone	μg/kg	+	17,372	251	69		20	0,069	Scaled GWP SSL	Yes
118-B-1 Shallow Focused	Barium	μg/kg		3.89E+08	251	1.55E+06	132,000	2,000	1,550,418	Scaled GWP SSL	No
118-B-1_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg		3.05E.00	251	_c	132,000	330	-	Scarca GVV 33E	***
118-B-1 Shallow Focused	Boron	μg/kg μg/kg		348,488	251	1,389	3,890	2,000	3,890	Background Value	Yes
118-B-1 Shallow Focused	Copper	μg/kg μg/kg		7.69E+06	251	30,648	22,000	1,000	30,648	Scaled GWP SSL	No
118-B-1 Shallow Focused	Dicamba	μg/kg μg/kg		1,582	251	6.3	22,000	100	100	RDL	No
118-B-1_Shallow_Focused	Lead			1,362	251	e	10,200	5,000		C C	***************************************
118-B-1_Shallow_Focused	Mercury	μg/kg		1.34E+07	251	53,531	13	200	53,531	Scaled GWP SSL	No
118-B-1_Shallow_Focused	Methoxychlor	μg/kg		1.342+07	251	23,331	- 13	200	33,331	Scaled GWF 33L	140
		μg/kg									V
118-B-1 Shallow Focused	Methylene chloride	μg/kg		14	251 251	0.054	470	5 2,000	5 2,247	RDL Scaled GWP SSL	Yes No
118-B-1_Shallow_Focused	Molybdenum Cobalt 60	μg/kg		563,885		2,247				c Scaled GML 22F	
118-B-1_Shallow_Focused	Cobalt-60	pCi/g		_6	251		0.0084	0.05	- 10		W
118-B-1_Shallow_Focused	Tritium	pCi/g		60	251	0.24	-	10	10	RDL	Yes
118-B-10_Shallow	Cobalt-60	pCi/g			8.6	a.c	0.0084	0.05		¢	
118-B-10_Shallow	Nickel-63	pCi/g		_c	8.6	c	-	30			-
118-B-10_Shallow_Focused	Lead	μg/kg	16,200	_c	2.1	_c	10,200	5,000		_c	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	(With Background Consideration)										
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCl/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $ \left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m \right) $	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
118-B-10 Shallow Focused	Mercury	μg/kg	230	1.34E+07	2.1	6.40E+06	13	200	6,395,648	Scaled GWP SSL	No
118-B-3 Shallow	Hexavalent Chromium	μg/kg	298	6,000°	28	6,000		1,000	6,000	0	No
118-B-3_Shallow	Cobalt-60	pCi/g	0.086	e	28	-¢	0.0084	0.05	_	_c	
118-B-3_Shallow	Europium-152	pCi/g	0.21	c	28	_c	0.0004	0.1	_	_c	_
118-B-3_Shallow	Europium-154	pCi/g	0.18	_c	28	_c	0.033	0.1		_c	
118-B-3_Shallow Focused	Bis(2-ethylhexyl) phthalate	μg/kg	57	_c	63	_c	0.055	330		_c	
118-B-3_Shallow_Focused	Lead	μg/kg	43,900	c	63	_c	10,200	5,000		c	_
118-B-3_Shallow_Focused	Mercury	μg/kg	34	1.34E+07	63	212,514	13	200	212,514	Scaled GWP SSL	No
118-B-3_Shallow_Focused	Cobalt-60	pCi/g	0.17	C	63	c	0.0084	0.05		_c	
118-B-3_Shallow_Focused	Europium-152	pCi/g	1.1	c	63	c	0.0004	0.1	***	_c	_
118-B-4 Shallow	Hexavalent Chromium	μg/kg	250	6,000 ^e	24	6,000	_	1,000	6,000		No
	Europium-152		0.35	6,000	24	0,000	***	0.1	0,000	_c	
118-B-4_Shallow 118-B-6 Deep	Tritium	pCi/g pCi/g	2,780	60	6.2	9.6		10	10	RDL	Yes
118-B-6 Shallow	Mercury	μg/kg	80	1.34E+07	17	790,051	13	200	790,051	Scaled GWP SSL	No
118-B-6 Shallow	Tritium	pCi/g	241	60	17	3.5		10	10	RDL	Yes
118-B-7_Shallow_Focused	Lead	μg/kg	22,900	_c	0.20	_c	10,200	5,000	-	c	
118-B-7_Shallow_Focused	Mercury	μg/kg	110	1.34E+07	0.20	6.72E+07	13	200	67,154,305	Scaled GWP SSL	No
118-B-7 Shallow Focused	Silver	μg/kg	720	27,530	0.20	137,649	167	200	137,649	Scaled GWP SSL	No
118-B-9 Shallow Focused	Antimony	μg/kg	695	1.19E+07	4.2	2.83E+06	130	600	2,832,816	Scaled GWP SSL	No
118-B-9 Shallow Focused	Barium	μg/kg	141,000	3.89E+08	4.2	9.26E+07	132,000	2,000	92,619,048	Scaled GWP SSL	No
118-B-9_Shallow_Focused	Boron	μg/kg	9,700	348,488	4.2	82,973	3,890	2,000	82,973	Scaled GWP SSL	No
118-B-9_Shallow_Focused	Lead	μg/kg	26,900	_e	4.2	_c	10,200	5,000		e	
118-B-9_Shallow_Focused	Mercury	μg/kg	225	1.34E+07	4.2	3.20E+06	13	200	3,197,824	Scaled GWP SSL	No
118-B-9_Shallow_Focused	Zinc	μg/kg	250,000	3.89E+08	4.2	9.26E+07	67,800	1,000	92,619,048	Scaled GWP SSL	No
118-C-1_Shallow_1	Europium-152	pCi/g	0.16	_c	30	_c	-	0.1		_c	
118-C-1_Shallow_2	Bis(2-ethylhexyl) phthalate	μg/kg	400	c	17	_c	***	330	_	c	
118-C-1_Shallow_2	Di-n-butylphthalate	μg/kg	35	88,471	17	5,174	0.0	330	5,174	Scaled GWP SSL	No
118-C-1_Shallow_2	Hexavalent Chromium	μg/kg	240	6,000 ^e	17	6,000	-	1,000	6,000	_•	No
118-C-1_Shallow_2	Methylene chloride	μg/kg	14	14	17	0.79		5	5	RDL	Yes
118-C-1_Shallow_2	Carbon-14	pCi/g	12	c	17	_c		2		c	three
118-C-1_Shallow_2	Cobalt-60	pCi/g	1.5	a.c	17	c	0.0084	0.05	_	c	_
118-C-1_Shallow_2	Europium-152	pCi/g	0.28	c	17	c	The State of the S	0.1	-	_c	
118-C-1_Shallow_2	Nickel-63	pCi/g	36	_c	17	T.c		30		C	
118-C-1 Shallow 2	Tritium	pCi/g	7.7	60	17	3.5	-	10	10	RDL	No
118-C-1_Shallow_3	Acetone	μg/kg	11	17,372	42	418		20	0,418	Scaled GWP SSL	No
118-C-1_Shallow_3	Aroclor-1254	μg/kg	62	_c	42	_c		17		_с	-
118-C-1_Shallow_3	Benzo(a)anthracene	μg/kg	180	_c	42	c		15		c	inu
118-C-1_Shallow_3	Benzo(a)pyrene	μg/kg		_c	42	_c	-	15	and a	_c	-
118-C-1_Shallow_3	Benzo(b)fluoranthene	μg/kg		_c	42	c	_	15		_c	-
118-C-1 Shallow 3	Benzo(k)fluoranthene	μg/kg	140	_c	42	C		15		_c	
118-C-1_Shallow_3	Bis(2-ethylhexyl) phthalate	μg/kg		_ c	42	c		330		c	_
118-C-1_Shallow_3	Butylbenzylphthalate	μg/kg		60,438	42	1,453	_	330	1,453	Scaled GWP SSL	No
118-C-1_Shallow_3	Chrysene	μg/kg		_c	42	c		100		c	
118-C-1_Shallow_3	Copper	μg/kg	45,200	7.69E+06	42	184,847	22,000	1,000	184,847	Scaled GWP 5SL	No
118-C-1_Shallow_3	Di-n-butylphthalate	μg/kg		88,471	42	2,127	-	330	2,127	Scaled GWP SSL	No
118-C-1_Shallow_3	Fluoranthene	μg/kg		3.89E+08	42	9.35E+06	***	330	9,350,962	Scaled GWP SSL	No
118-C-1_Shallow_3	Indeno(1,2,3-cd)pyrene	μg/kg		_c	42	, c		330	-	c	-
118-C-1 Shallow 3	Lead	μg/kg	-	C	42	c	10,200	5,000		_c	-
118-C-1 Shallow 3	Mercury	μg/kg		1.34E+07	42	322,857	13	200	322,857	Scaled GWP SSL	No
118-C-1_Shallow_3	Methylene chloride	μg/kg		14	42	0.33	-	5	5	RDL	Yes
118-C-1_Shallow_3	Molybdenum	μg/kg		563,885	42	13,555	470	2,000	13,555	Scaled GWP SSL	No
118-C-1_Shallow_3	Pyrene	μg/kg		3.89E+08	42	9.35E+06		330	9,350,962	Scaled GWP SSL	No

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

			U	(1	With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection ^a $\left(\frac{yg}{kg} \cdot m \ or \frac{pCl}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (μg/kg or pCi/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
118-C-1 Shallow 3	Zinc	μg/kg	77,100	3.89E+08	42	9.35E+06	67,800	1,000	9,350,962	Scaled GWP SSL	No
118-C-1_Shallow_3	Cobalt-60	pCi/g	0.042	c	42	_c	0.0084	0.05	-,,	_c	-
118-C-1_Shallow 3	Europium-152	pCi/g	0.14	_c	42	_c		0.1		c	_
118-C-1 Shallow 3	Total beta radiostrontium	pCi/g	0.28	2,121	42	51	0.18	1	0,051	Scaled GWP SSL	No
118-C-1 Shallow 4	Acetone	μg/kg		17,372	32	536	**	20	0,536	Scaled GWP SSL	No
118-C-1_Shallow 4	Aroclor-1254	μg/kg	16	c	32	-c		17		, c	
118-C-1_Shallow_4	Barium	μg/kg	286,000	3.89E+08	32	1.20E+07	132,000	2,000	12,006,173	Scaled GWP SSL	No
118-C-1_Shallow_4	Benzene	μg/kg	1.0	5.0	32	0.15		5	5	RDL	No
118-C-1_Shallow_4	Benzo(a)anthracene	μg/kg	130	c	32	c	**	15	-	c	
118-C-1_Shallow_4	Benzo(a)pyrene	μg/kg	83	_c	32	c		15	-	_c	
118-C-1_Shallow_4	Benzo(b)fluoranthene	μg/kg	110	_c	32	e c	-	15		_c	
118-C-1_Shallow_4	Benzo(k)fluoranthene	μg/kg	92	_c	32	- c	**	15		_c	-
118-C-1_Shallow_4	Bis(2-ethylhexyl) phthalate	μg/kg	17	c	32	, C		330	400	_c	_
118-C-1 Shallow 4	Boron	μg/kg	4,900	348,488	32	10,756	3,890	2,000	10,756	Scaled GWP SSL	No
118-C-1_Shallow_4	Chrysene	μg/kg	170	_c	32	c		100	-	_c	-
118-C-1_Shallow_4	Di-n-butylphthalate	μg/kg	26	88,471	32	2,731		330	2,731	Scaled GWP SSL	No
118-C-1_Shallow_4	Fluoranthene	μg/kg	330	3.89E+08	32	1.20E+07	-	330	12,006,173	Scaled GWP SSL	No
118-C-1_Shallow_4	Indeno(1,2,3-cd)pyrene	μg/kg	35	c	32	_c	-	330		_c	444
118-C-1_Shallow_4	Methylene chloride	μg/kg	13	14	32	0.42	**	5	5	RDL	Yes
118-C-1_Shallow_4	Pyrene	μg/kg	350	3.89E+08	32	1.20E+07		330	12,006,173	Scaled GWP SSL	No
118-C-1_Shallow_4	Xylenes (total)	μg/kg	1.0	16,314	32	504		1	0,504	Scaled GWP SSL	No
118-C-1_Shallow_4	Cesium-137	pCi/g	1.2	e	32	-c	1.1	0.1	-	_c	
118-C-1_Shallow_4	Europium-152	pCi/g	0.16	c	32	C	898	0.1		_c	
118-C-1_Shallow_Focused	Acetone	μg/kg	24	17,372	84	206	-	20	0,206	Scaled GWP SSL	No
118-C-1_Shallow_Focused	Aroclor-1254	μg/kg	22	c	84	c		17	-	-c	-
118-C-1_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	67	-c	84	c	-	330	**	_c	_
118-C-1_Shallow_Focused	Carbon tetrachloride	μg/kg	39	5.0	84	0.059		5	5	RDL	Yes
118-C-1_Shallow_Focused	Copper	μg/kg	23,300	7.69E+06	84	91,326	22,000	1,000	91,326	Scaled GWP SSL	No
118-C-1_Shallow_Focused	Diethylphthalate	μg/kg	22	63,829	84	758	~~	330	0,758	Scaled GWP SSL	No
118-C-1_Shallow_Focused	Di-n-butylphthalate	μg/kg	55	88,471	84	1,051		330	1,051	Scaled GWP SSL	No
118-C-1_Shallow_Focused	Mercury	μg/kg	40	1.34E+07	84	159,511	13	200	159,511	Scaled GWP SSL	No
118-C-1_Shallow_Focused	Methylene chloride	μg/kg	19	14	84	0.16		5 330	5	RDL	Yes
118-C-1_Shallow_Focused	Phenol Plutonium-239/240	μg/kg	36 0.20	7,909 c	84 84	94 _c	-	1	330	RDL	No
118-C-1_Shallow_Focused	Nickel-63	pCi/g				c	0.025	30	-		-
118-C-2_Shallow		pCi/g	79	c	9.8				-	6	-
118-C-3:2_Deep_Focused	Hexavalent Chromium	μg/kg		6,000 ^e	4.3	6,000	-	1,000	6,000		No
118-C-3:2_Deep_Focused	Lead	μg/kg		_c	4.3	c	10,200	5,000		-c	-
118-C-3:2_Deep_Focused	Americium-241	pCi/g	2.7	_c	4.3	C		1		_c	
118-C-3:2_Deep_Focused	Cesium-137	pCi/g	171	¢	4.3	_c	1.1	0.1		_c	-
118-C-3:2_Deep_Focused	Cobalt-60	pCi/g		e e	4.3	, c	0.0084	0.05		c	-
118-C-3:2_Deep_Focused	Europium-152	pCi/g		_c	4.3	c		0.1	**	e	-
118-C-3:2_Deep_Focused	Europium-154	pCi/g	1.5	_c	4.3	_c	0.033	0.1	_	-c	-
118-C-3:2_Deep_Focused	Nickel-63	pCi/g		c	4.3	_e		30	-	e	
118-C-3:2_Deep_Focused	Plutonium-238	pCi/g	0.26	c	4.3	_c	0.0038	1	-	e C	-
118-C-3:2_Deep_Focused	Plutonium-239/240	pCi/g	10	_c	4.3	-c	0.025	1	Met.	_c	-
118-C-3:2_Deep_Focused	Technetium-99	pCi/g		2.2	4.3	0.51	-	0.25	0,001	Scaled GWP 5SL	Yes
118-C-3:2_Deep_Focused	Total beta radiostrontium	pCi/g	38	2,121	4.3	493	0.18	1	0,493	Scaled GWP SSL	No
118-C-3:3_Shallow_Focused	Aroclor-1254	μg/kg	5.1	_c	60	_c	-	17	**	_c	***
118-C-3:3_Shallow_Focused	Aroclor-1260	μg/kg		_c	60	_c		17		e c	
118-C-3:3_Shallow_Focused	Benzo(a)anthracene	μg/kg		, C	60	_c		15	-	e e	-
118-C-3:3 Shallow Focused	Benzo(a)pyrene	μg/kg		_c	60	_c	-	15		C C	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	(With Background Consideration)											
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{pCt}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCl/g)	Selected GWP SSL (µg/kg or pCi/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?	
118-C-3:3 Shallow Focused	Benzo(b)fluoranthene	μg/kg	59	c	60	_c	(he) ue or her/e)	15	(he) ue as heale)	_c	~	
118-C-3:3 Shallow Focused	Benzo(k)fluoranthene	μg/kg	68	_c	60	_c	-	15		_c	***	
118-C-3:3 Shallow Focused	Bis(2-ethylhexyl) phthalate	μg/kg	65	_c	60	c	_	330		c		
118-C-3:3 Shallow Focused	Chrysene	μg/kg	100	_c	60	c	-	100		_c	-	
118-C-3:3 Shallow Focused	Copper	μg/kg	38,300	7.69E+06	60	127,523	22,000	1,000	127,523	Scaled GWP SSL	No	
118-C-3:3 Shallow Focused	Di-n-butylphthalate	μg/kg	19	88,471	60	1,467		330	1,467	Scaled GWP SSL	No	
118-C-3:3 Shallow Focused	Fluoranthene	μg/kg	160	3.89E+08	60	6.45E+06	-	330	6,451,078	Scaled GWP SSL	No	
118-C-3:3_Shallow_Focused	Hexavalent Chromium	μg/kg	540	6,000 ^e	60	6,000	-	1,000	6,000		No	
118-C-3:3_Shallow_Focused	Indeno(1,2,3-cd)pyrene	μg/kg	52	C	60	, C	_	330		_c	-	
118-C-3:3 Shallow Focused	Mercury	μg/kg	800	1.34E+07	60	222,734	13	200	222,734	Scaled GWP SSL	No	
118-C-3:3_Shallow_Focused	Pyrene	μg/kg	170	3.89E+08	60	6.45E+06	_	330	6,451,078	Scaled GWP SSL	No	
118-C-4_Shallow	Benzo(a)anthracene	μg/kg	41	C	5.2	_c		15		c	-	
118-C-4_Shallow	Benzo(a)pyrene	μg/kg	44	_c	5.2	_c	-	15		c	-	
118-C-4_Shallow	Benzo(b)fluoranthene	μg/kg	46	_c	5.2	c		15		c	-	
118-C-4 Shallow	Benzo(k)fluoranthene	μg/kg	45	_e	5.2	_c	-	15	-	_c		
118-C-4_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	130	_c	5.2	**c	-	330	-	c	-	
118-C-4 Shallow	Chrysene	μg/kg	44	c	5.2	c	_	100		cc	-	
118-C-4_Shallow	Di-n-butylphthalate	μg/kg	34	88,471	5.2	17,014		330	17,014	Scaled GWP SSL	No	
118-C-4 Shallow	Fluoranthene	μg/kg	74	3.89E+08	5.2	7.48E+07	**	330	74,807,692	Scaled GWP SSL	No	
118-C-4_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	19	c	5.2	_c	- 00	330	_	_e		
118-C-4_Shallow	Lead	μg/kg	20,100	_c	5.2	c	10,200	5,000		e		
118-C-4 Shallow	Methylene chloride	μg/kg	12	14	5.2	2.6		5	5	RDL	Yes	
118-C-4 Shallow	Pyrene	μg/kg	100	3.89E+08	5.2	7.48E+07		330	74,807,692	Scaled GWP SSL	No	
118-C-4 Shallow	Toluene	μg/kg	1.7	4,437	5.2	853		5	0,853	Scaled GWP SSL	No	
120-B-1_Shallow_Focused	Aroclor-1221	μg/kg	9.8	17	11	1.6		16.5	16.5	RDL	No	
120-B-1_Shallow_Focused	Aroclor-1260	μg/kg	170	_¢	11	_c	-	17		une C	-	
120-B-1_Shallow_Focused	Barium	μg/kg	135,000	3.89E+08	11	3.67E+07	132,000	2,000	36,698,113	Scaled GWP SSL	No	
120-B-1_Shallow_Focused	Boron	μg/kg	8,100	348,488	11	32,876	3,890	2,000	32,876	Scaled GWP 5SL	No	
120-B-1_Shallow_Focused	Chromium	μg/kg	273,000	c	11	C	18,500	1,000	-	_c		
120-B-1_Shallow_Focused	Fluoride	μg/kg	3,800	c	11	e	2,810	5,000	-	c		
120-B-1_Shallow_Focused	Hexavalent Chromium	μg/kg	380	6,000 ^e	11	6,000	-	1,000	6,000		No	
120-B-1_Shallow_Focused	Lead	μg/kg	15,400	e C	11	_c	10,200	5,000	-	_c		
120-B-1_Shallow_Focused	Mercury	μg/kg	90	1.34E+07	11	1.27E+06	13	200	1,267,062	Scaled GWP SSL	No	
120-B-1_Shallow_Focused	Molybdenum	μg/kg	2,300	563,885	11	53,197	470	2,000	53,197	Scaled GWP SSL	No	
120-B-1_Shallow_Focused	Silver	μg/kg	230	27,530	11	2,597	167	200	2,597	Scaled GWP SSL	No	
120-B-1_Shallow_Focused	Zinc	μg/kg	72,200	3.89E+08	11	3.67E+07	67,800	1,000	36,698,113	Scaled GWP SSL	No	
126-B-3_Shallow	1,2,4-Trichlorobenzene	μg/kg	52	330	87	3.8	-	330	330	RDL	No	
126-B-3_Shallow	2-Methylnaphthalene	μg/kg	122	2,896	87	33		330	330	RDL	No	
126-B-3_Shallow	Acenaphthene	μg/kg	55	84,728 4.27E+07	87 87	969 488,282		330 330	0,969 488,282	Scaled GWP SSL Scaled GWP SSL	No No	
126-B-3_Shallow 126-B-3_Shallow	Anthracene Aroclor-1260	μg/kg	149 17	4.27ETO7	87	400,202 c		17	400,202	Scaled GWF 33L	-	
	Benzo(a)anthracene	μg/kg		c		_c			***	c		
126-B-3_Shallow		μg/kg	348		87		-	15			-	
126-B-3_Shallow	Benzo(a)pyrene	μg/kg	269	6	87	~°	-	15	-	_c	-	
126-B-3_Shallow	Benzo(b)fluoranthene	μg/kg	191	_c	87	c		15		c	-	
126-B-3_Shallow	Benzo(k)fluoranthene	μg/kg	244	, C	87	6	-	15		c		
126-B-3_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	55	_c	87	e		330		~c		
126-B-3_Shallow	Boron	μg/kg	4,975	348,488	87	3,987	3,890	2,000	3,987	Scaled GWP SSL	Yes	
126-B-3_Shallow	Carbazole	μg/kg	75	537	87	6.1		330	330	RDL	No	
126-B-3_Shallow	Chrysene	μg/kg	122	_c	87	e		100		_c		
126-B-3_Shallow	Copper	μg/kg	23,531	7.69E+06	87	87,982	22,000	1,000	87,982	Scaled GWP SSL	No	
126-B-3_Shallow	Dibenz[a,h]anthracene	μg/kg	88	_c	87	, e	-	30	-	c		
126-B-3_Shallow	Dibenzofuran	μg/kg	99	3,353	87	38		330	330	RDL	No	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	(With Background Consideration)											
Marks Sky (Special on Unit	Anabata Nama	linite	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection" $\left(\frac{\mu g}{kg} \cdot m \text{ or } \frac{pCt}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCi/g)	Required Detection Limit (µg/kg or pCi/g)	Selected GWP SSL (µg/kg or pCl/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?	
Waste Site/Decision Unit	Analyte Name Di-n-butylphthalate	Units μg/kg	35	88,471	87	1,012	(pg/ng or pc/g/	330	1,012	Scaled GWP SSL	No	
126-B-3_Shallow	Fluoranthene	μg/kg μg/kg	204	3.89E+08	87	4.45E+06		330	4,450,801	Scaled GWP SSL	No	
126-B-3_Shallow 126-B-3_Shallow	Fluorene	μg/kg	71	97,154	87	1,112		330	1,112	Scaled GWP SSL	No	
	Indeno(1,2,3-cd)pyrene	μg/kg	162	_c	87	e c	_	330	-	c	_	
126-B-3_Shallow		μg/kg	28	1.34E+07	87	153,671	13	200	153,671	Scaled GWP SSL	No	
126-B-3_Shallow 126-B-3_Shallow	Mercury Molybdenum	μg/kg μg/kg	1,227	563,885	87	6,452	470	2,000	6,452	Scaled GWP SSL	No	
126-B-3_Shallow	Naphthalene	μg/kg	118	6,798	87	78	_	330	330	RDL	No	
126-B-3_Shallow 126-B-3 Shallow	n-Nitrosodiphenylamine	μg/kg	103	819	87	9.4		330	330	RDL	No	
126-B-3_Shallow	Pyrene	μg/kg	180	3.89E+08	87	4.45E+06		330	4,450,801	Scaled GWP SSL	No	
128-B-2_Shallow	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	16	_c	95	, c	_	3.3	-	_ c		
	The second secon			c	95	c c		17	_	_c		
128-B-2_Shallow	Aroclor-1254	μg/kg	68	C		C C		330	no.			
128-B-2_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	206		95		-		0,636	Scaled GWP SSL	No No	
128-B-2_Shallow	Butylbenzylphthalate	μg/kg	17	60,438	95	636	-	330 1.7	14,958	Scaled GWP SSL	No	
128-B-2_Shallow	Chlordane	μg/kg	24	1.42E+06	95 95	14,958 931	-	330	0,931	Scaled GWP SSL	No	
128-B-2_Shallow	Di-n-butylphthalate	μg/kg	36	88,471 3.89E+08	95	4.09E+06	-	330	4,094,737	Scaled GWP SSL	No	
128-B-2_Shallow	Fluoranthene	μg/kg	22	3.89E+08	95	4.09E+00		5,000		C C	-	
128-B-2_Shallow	Lead	μg/kg	32,438				10,200			Scaled GWP SSL	No	
128-B-2_Shallow	Mercury	μg/kg	22	1.34E+07	95	141,377	13 470	2,000	141,377 5,936	Scaled GWP SSL	No	
128-B-2_Shallow	Molybdenum	μg/kg	1,077	563,885	95	5,936 83		330	330	RDL	No	
128-B-2_Shallow	Phenol	μg/kg	22	7,909	95	4.09E+06		330	4,094,737	Scaled GWP SSL	No	
128-B-2_Shallow	Pyrene	μg/kg	31	3.89E+08	95 95	4.096+06	-	5	0,047	Scaled GWP SSL	No	
128-B-2_Shallow	Toluene	μg/kg	4.0	4,437		e		17	0,047	Scaled GVV 332		
128-B-3_Shallow_1	Aroclor-1254	μg/kg	190		15							
128-B-3_Shallow_1	Benzo(a)anthracene	μg/kg	24	-c	15	_c	-	15	-		-	
128-B-3_Shallow_1	Benzo(a)pyrene	μg/kg	17	c	15	c	-	15		_c	-	
128-B-3_Shallow_1	Benzo(b)fluoranthene	μg/kg	32	c	15	c	-	15	**	_c		
128-B-3_Shallow_1	Benzo(k)fluoranthene	μg/kg	30	c	15	C		15		C	_	
128-B-3 Shallow 1	Bis(2-ethylhexyl) phthalate	μg/kg	51	_c	15	_e	-	330	-	C com		
128-B-3_Shallow_1	Chrysene	μg/kg	38	_c	15	c	_	100		-6	-	
128-B-3_Shallow_1	Di-n-butylphthalate	μg/kg	22	88,471	15	5,745	-	330	5,745	Scaled GWP SSL	No	
128-B-3_Shallow_1	Endrin	μg/kg	2.4	1,219	15	79	-	3	0,079	Scaled GWP SSL	No	
128-B-3 Shallow_1	Fluoranthene	μg/kg	20	3.89E+08	15	2.53E+07		330	25,259,740	Scaled GWP SSL	No	
128-B-3 Shallow 1	Mercury	μg/kg	63	1.34E+07	15	872,134	13	200	872,134	Scaled GWP SSL	No	
128-B-3 Shallow 1	Methylene chloride	μg/kg	8.2	14	15	0.88	-	5	5	RDL	Yes	
128-B-3_Shallow_1	Pyrene	μg/kg	31	3.89E+08	15	2.53E+07	-	330	25,259,740	Scaled GWP SSL	No	
128-B-3 Shallow 2	Aroclor-1254	μg/kg	17	_c	46	_c	-	17			-	
128-B-3_Shallow_2	Boron	μg/kg	6,364	348,488	46	7,626	3,890	2,000	7,626	Scaled GWP SSL	No	
128-B-3 Shallow 2	Chromium	μg/kg	36,702	e	46	-c	18,500	1,000	-	c	-	
128-B-3_Shallow_2	Copper	μg/kg	38,045	7.69E+06	46	168,263	22,000	1,000	168,263	Scaled GWP SSL	No	
128-B-3_Shallow_2	Hexavalent Chromium	μg/kg	544	6,000 ^e	46	6,000		1,000	6,000	-*	No	
	Lead		40,282	_c	46	_ c	10,200	5,000	-	c	-	
128-B-3_Shallow_2		μg/kg		1.34E+07	46	293,892	13	200	293,892	Scaled GWP SSL	No	
128-B-3_Shallow_2	Mercury Methylene chloride	μg/kg	72	1.34E+07	46	0.30		5	5	RDL	Yes	
128-B-3_Shallow_2	Methylene chloride	μg/kg	12 870	563,885	46	12,339	470	2,000	12,339	Scaled GWP SSL	No	
128-B-3_Shallow_2	Molybdenum Silver	μg/kg μg/kg	241	27,530	46	602	167	200	0,602	Scaled GWP SSL	No	
128-B-3_Shallow_2	Total petroleum hydrocarbons		431,000	1.00E+06 ^d	46	1000000			1,000,000	d	No	
128-B-3_Shallow_2		μg/kg	109,940	3.89E+08	46	8.51E+06	67,800	1,000	8,512,035	Scaled GWP SSL	No	
128-B-3_Shallow_2	Zinc	μg/kg		3.89E+08		8.51E+06	67,800	3.3		Scaled GW1 33E		
128-B-3_Shallow_3	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg	12		40					_c		
128-B-3_Shallow_3	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	12	_c	40	_c		3.3			No.	
128-B-3_Shallow_3	Acetone	μg/kg	15	17,372	40	436		20	0,436 0,248	Scaled GWP SSL	No	
128-B-3 Shallow 3	Aldrin	μg/kg		9,878	40	248	-	1.7		Scaled GWP SSL	No	
128-B-3_Shallow_3	Aroclor-1254	μg/kg	29		40					c		

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

	(With Background Consideration)											
	Unit Analyte Name Benzo(a)anthracene		Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{p\mathcal{C}l}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		is EPC > Soil Screening Level Protective of	
Waste Site/Decision Unit			(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(μg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?	
128-B-3_Shallow_3		μg/kg	47	c	40	_c	444	15	-	c		
128-B-3_Shallow_3	Benzo(a)pyrene	μg/kg	53	_c	40	_c	_	15	-	-c	-	
128-B-3_Shallow_3	Benzo(b)fluoranthene	μg/kg	55	c	40	_c	- ALM	15	**	_c	-	
128-B-3_Shallow_3	Benzo(k)fluoranthene	μg/kg	43	_c	40	_c	-	15	***	c	-	
128-B-3_Shallow_3	Bis(2-ethylhexyl) phthalate	μg/kg	64	C	40	_c	-	330		_c	-	
128-B-3_Shallow_3	Cadmium	μg/kg	590	1,256	40	32	1,510	50	1,510	Background Value	No	
128-B-3_Shallow_3	Chlordane	μg/kg	0.33	1.42E+06	40	35,705	-	1.7	35,705	Scaled GWP SSL	No	
128-B-3_Shallow_3	Chrysene	μg/kg	100	_c	40	-c	-	100	-	_c	_	
128-B-3_Shallow_3	Dibenz[a,h]anthracene	μg/kg	56	e	40	_c		30		c		
128-B-3_Shallow_3	Di-n-butylphthalate	μg/kg	29	88,471	40	2,223	-	330	2,223	Scaled GWP SSL	No	
128-B-3_Shallow_3	Fluoranthene	μg/kg	62	3.89E+08	40	9.77E+06		330	9,773,869	Scaled GWP SSL	No	
128-B-3_Shallow_3	Hexavalent Chromium	μg/kg	293	6,000 ^e	40	6,000	-	1,000	6,000		No	
128-B-3_Shallow_3	Indeno(1,2,3-cd)pyrene	μg/kg	50	e	40	_c		330	-	c		
128-B-3_Shallow_3	Mercury	μg/kg	48	1.34E+07	40	337,459	13	200	337,459	Scaled GWP SSL	No	
128-B-3_Shallow_3	Methoxychlor	μg/kg	3.6	e	40	_c	_	20	-	c		
128-B-3_Shallow_3	Methylene chloride	μg/kg	16	14	40	0.34		5	5	RDL	Yes	
128-B-3_Shallow_3	Molybdenum	μg/kg	4,700	563,885	40	14,168	470	2,000	14,168	Scaled GWP SSL	No	
128-B-3_Shallow_3	Pyrene	μg/kg	87	3.89E+08	40	9.77E+06		330	9,773,869	Scaled GWP SSL	No	
128-B-3_Shallow_3	Silver	μg/kg	300	27,530	40	692	167	200	0,692	Scaled GWP SSL	No	
128-B-3_Shallow_3	Toluene	μg/kg	1.8	4,437	40	111		5	0,111	Scaled GWP SSL	No	
128-B-3_Shallow_3	Total petroleum hydrocarbons	μg/kg	258,000	1.00E+06 ^d	40	1000000		••	1,000,000	d	No	
128-B-3_Shallow_3	Xylenes (total)	μg/kg	2.5	16,314	40	410	-	1	0,410	Scaled GWP 5SL	No	
128-C-1_Shallow	Antimony	μg/kg	858	1.19E+07	45	262,067	130	600	262,067	Scaled GWP SSL	No	
128-C-1_Shallow	Aroclor-1254	μg/kg	140	c	45	c	-	17	***	c		
128-C-1_Shallow	Aroclor-1260	μg/kg	11	c	45	¢		17		C		
128-C-1_Shallow	Benzo(a)anthracene	μg/kg	29	c	45	C	-	15		c	_	
128-C-1_Shallow	Benzo(a)pyrene	μg/kg	31	_c	45	_c	-	15	407	_c	_	
128-C-1_Shallow	Benzo(b)fluoranthene	μg/kg	32	e	45	-c		15	-	_c		
128-C-1_Shallow	Benzo(k)fluoranthene	μg/kg	30	e	45	300	-	15		_c		
128-C-1_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	1,682	c	45	_c		330	-	_c		
128-C-1_Shallow	Boron	μg/kg	9,818	348,488	45	7,676	3,890	2,000	7,676	Scaled GWP SSL	Yes	
128-C-1_Shallow	Cadmium	μg/kg	990	1,256	45	28	1,510	50	1,510	Background Value	No	
128-C-1_Shallow	Chrysene	μg/kg	38	^c	45	_c	-	100	-	_c		
128-C-1_Shallow	Copper	μg/kg	48,008	7.69E+06	45	169,375	22,000	1,000	169,375	Scaled GWP SSL	No	
128-C-1_Shallow	Di-n-butylphthalate	μg/kg	40	88,471	45	1,949	-	330	1,949	Scaled GWP SSL	No	
128-C-1_Shallow	Fluoranthene	μg/kg	53	3.89E+08	45	8.57E+06	-	330	8,568,282	Scaled GWP SSL	No	
128-C-1_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	21	c	45	_с		330		_c		
128-C-1_Shallow	Lead	μg/kg	30,352	_c	45	c	10,200	5,000	-	_c	-	
128-C-1_Shallow	Mercury	μg/kg	50	1.34E+07	45	295,834	13	200	295,834	5caled GWP SSL	No	
128-C-1_Shallow	Molybdenum	μg/kg	1,900	563,885	45	12,420	470	2,000	12,420	Scaled GWP SSL	No	
128-C-1_Shallow	Pyrene	μg/kg	43	3.89E+08	45	8.57E+06	-	330	8,568,282	Scaled GWP SSL	No	
128-C-1_Shallow	Selenium	μg/kg	1,300	9,013	45	199	780	1,000	1,000	RDL	Yes	
128-C-1_Shallow	Silver	μg/kg	6,600	27,530	45	606	167	200	0,606	Scaled GWP SSL	Yes	
128-C-1_Shallow	Zinc	μg/kg	70,414	3.89E+08	45	8.57E+06	67,800	1,000	8,568,282	Scaled GWP SSL	No	
128-C-1_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	36	1 250	37	_c	4.540	330	4 540	_c	 V	
128-C-1_Shallow_Focused	Cadmium	μg/kg	1,797	1,256	37	34	1,510	50	1,510	Background Value	Yes	
128-C-1_Shallow_Focused	Chromium	μg/kg	19,600	c	37	c	18,500	1,000	-	c		
128-C-1_Shallow_Focused	Lead	μg/kg	61,300	_c	37	_c	10,200	5,000		-c	-	
128-C-1 Shallow_Focused	Mercury	μg/kg	200	1.34E+07	37	362,996	13	200	362,996	Scaled GWP SSL	No	
128-C-1_Shallow_Focused 1607-B1_Shallow_Focused	Total petroleum hydrocarbons 4,4'-DDD (Dichlorodiphenyldichloroethane)	μg/kg μg/kg	44,700 1.0	1.00E+06 ^d 836,540	6.3	1000000 132,784		3.3	1,000,000	Scaled GWP SSL	No No	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

	(With Background Consideration)											
			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\text{Mg}}{kg}\cdot m \text{ or } \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCl/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		Is EPC > Soil Screening Level Protective of	
Waste Site/Decision Unit	Analyte Name		(µg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(µg/kg or pCl/g)	Selected GWP SSL Basis	Groundwater?	
1607-B1_Shallow_Focused	Alpha-BHC	μg/kg	0.52	1.7	6.3	0.26	**	1.7	1.7	RDL	No	
1607-B1_Shallow_Focused	Aroclor-1260	μg/kg	11	c	6.3	¢		17		_c		
1607-B1_Shallow_Focused	Barium	μg/kg	138,000	3.89E+08	6.3	6.17E+07	132,000	2,000	61,746,032	Scaled GWP SSL	No	
1607-B1_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	98	c	6.3	_c		330		¢	-	
1607-B1_Shallow_Focused	Di-n-butylphthalate	μg/kg	26	88,471	6.3	14,043	-	330	14,043	Scaled GWP SSL	No	
1607-B1_Shallow_Focused	Hexavalent Chromium	μg/kg	300	6,000°	6.3	6,000		1,000	6,000		No	
1607-B1_Shallow_Focused	Mercury	μg/kg	230	1.34E+07	6.3	2.13E+06	13	200	2,131,883	Scaled GWP SSL	No	
1607-B1_Shallow_Focused	Molybdenum	μg/kg	570	563,885	6.3	89,505	470	2,000	89,505	Scaled GWP SSL	No	
1607-B1_Shallow_Focused	Zinc	μg/kg	93,900	3.89E+08	6.3	6.17E+07	67,800	1,000	61,746,032	Scaled GWP SSL	No	
1607-B10_Shallow	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	4.5	_c	15	c		3.3	4-4	c		
1607-B10_Shallow	Aroclor-1254	μg/kg	57	c	15	c	-	17		c		
1607-B10_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	22	c	15	c	-	330		C		
1607-B10_Shallow	Chromium	μg/kg	25,200	-c	15	-c	18,500	1,000	**	_c	-	
1607-B10_Shallow	Fluoranthene	μg/kg	30	3.89E+08	15	2.66E+07		330	26,643,836	Scaled GWP SSL	No	
1607-B10_Shallow	Lead	μg/kg	17,900	c	15	_c	10,200	5,000	-	c		
1607-B10_Shallow	Mercury	μg/kg		1.34E+07	15	919,922	13	200	919,922	Scaled GWP SSL	No	
1607-B10_Shallow	Pyrene	μg/kg	27	3.89E+08	15	2.66E+07		330	26,643,836	Scaled GWP SSL	No	
1607-B11 Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	680	_c	10	c	-	330		_c		
	Lead	µg/kg		_c	10	C C	10,200	5,000		_c		
1607-B11_Shallow	The state of the s		30	1.34E+07	10	1.32E+06	13	200	1,316,751	Scaled GWP SSL	No	
1607-B11_Shallow	Mercury	μg/kg		941	36	26		200	0,026	Scaled GWP SSL	Yes	
1607-B2:1_Shallow	2,4,5-T(2,4,5-Trichlorophenoxyacetic acid) 2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	μg/kg		415	36	12	-	20	20	RDL	Yes	
1607-B2:1_Shallow	2,4-D(2,4-Dichlorophenoxyacetic acid)	μg/kg μg/kg		400	36	11		400	400	RDL	No	
1607-B2:1_Shallow	2,4-D(2,4-Dichlorophenoxy)butanoic acid)	μg/kg μg/kg	250	705	36	20	-	100	100	RDL	Yes	
1607-B2:1_Shallow 1607-B2:1_Shallow	2-Methylnaphthalene	μg/kg μg/kg	154	2,896	36	81		330	330	RDL	No	
1607-B2:1_Shallow	Acetone	μg/kg		17,372	36	487		20	0,487	Scaled GWP SSL	No	
1607-B2:1_Shallow	Antimony	μg/kg	457	1.19E+07	36	333,272	130	600	333,272	Scaled GWP SSL	No	
1607-B2:1_Shallow	Barium	μg/kg		3.89E+08	36	1.09E+07	132,000	2,000	10,896,359	Scaled GWP SSL	No	
1607-B2:1_Shallow	Boron	μg/kg		348,488	36	9,762	3,890	2,000	9,762	Scaled GWP SSL	Yes	
1607-B2:1_Shallow	Chromium	μg/kg			36	_c	18,500	1,000		_c	_	
1607-B2:1_Shallow	Copper	μg/kg		7.69E+06	36	215,396	22,000	1,000	215,396	Scaled GWP SSL	No	
1607-B2:1_Shallow	Dibenzofuran	μg/kg	34	3,353	36	94		330	330	RDL	No	
1607-B2:1_Shallow	Diethylphthalate	μg/kg	26	63,829	36	1,788		330	1,788	Scaled GWP SSL	No	
1607-B2:1_Shallow	Di-n-butylphthalate	μg/kg	21	88,471	36	2,478	-	330	2,478	Scaled GWP SSL	No	
1607-B2:1 Shallow	Dinoseb(2-secButyl-4,6-dinitrophenol)	μg/kg	27	1,082	36	30	-	10	0,030	Scaled GWP SSL	No	
1607-B2:1 Shallow	Endosulfan I	μg/kg	1.7	7,192	36	201		3	0,201	Scaled GWP SSL	No	
1607-B2:1_Shallow	Endrin	μg/kg	1.7	1,219	36	34		3	0,034	Scaled GWP SSL	No	
1607-B2:1_Shallow	Hexavalent Chromium	µg/kg		6,000 ^e	36	6,000	-	1,000	6,000	*	No	
1607-B2:1_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg		-c	36	_c	-	330	_	_c		
1607-B2:1_Shallow	Manganese	μg/kg	577,831	3.89E+08	36	1.09E+07	512,000	5,000	10,896,359	Scaled GWP SSL	No	
1607-B2:1_Shallow	Mercury	μg/kg	20	1.34E+07	36	376,215	13	200	376,215	Scaled GWP SSL	No	
1607-B2:1 Shallow	Molybdenum	μg/kg	1,097	563,885	36	15,795	470	2,000	15,795	Scaled GWP SSL	No	
1607-B2:1_Shallow	Naphthalene	μg/kg	107	6,798	36	190	-	330	330	RDL	No	
1607-B2:1_Shallow	Nickel	μg/kg		3.89E+08	36	1.09E+07	19,100	4,000	10,896,359	Scaled GWP SSL	No	
1607-B2:2_Shallow	2-Methylnaphthalene	μg/kg	19	2,896	240	12		330	330	RDL	No	
1607-B2:2_Shallow	4,4'-DDE (Dichlorodiphenyldichloroethylene)	μg/kg		-c	240	-c		3.3	-	_c .	_	
1607-B2:2_Shallow	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg		_c	240	_c	_	3.3	-	_c	-	
1607-B2:2_Shallow	Alpha-Chlordane	μg/kg		1.42E+06	240	5,919	-	17	5,919	Scaled GWP SSL	No	
1607-B2:2_Shallow	Antimony	μg/kg	510	1.19E+07	240	49,554	130	600	49,554	Scaled GWP SSL	No	
1607-B2:2_Shallow	Aroclor-1254	μg/kg	330	c	240	_c		17	-	_c	-	
					240	c		17	***	c		
1607-B2:2_Shallow	Aroclor-1260	μg/kg μg/kg		_c	240			15		c		
1607-B2:2_Shallow	Benzo(a)anthracene											

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater

			Exposure Point Concentration	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection $\left(\frac{\mu g}{kg}\cdot m\ or\ \frac{pCl}{g}\cdot m\right)$	Site Width in Direction of Groundwater Flow ^b	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value	Required Detection Limit	Selected GWP SSL		is EPC > Soil Screening Level Protective of
Waste Site/Decision Unit	Analyte Name		(μg/kg or pCi/g)		(m)		(μg/kg or pCi/g)	(μg/kg or pCi/g)	(μg/kg or pCi/g)	Selected GWP SSL Basis	Groundwater?
1607-B2:2_Shallow	Benzo(b)fluoranthene	μg/kg	41	c	240	c		15		c	
1607-B2:2_Shallow	Benzo(k)fluoranthene	μg/kg	35	_c	240	_c		15		c	-
1607-B2:2_Shallow	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	μg/kg	1.9	3.8	240	0.016	-	1.7	1.7	RDL	Yes
1607-B2:2_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	2,681	_c	240	e C	-	330	-	_c	-
1607-B2:2_Shallow	Boron	μg/kg	4,666	348,488	240	1,451	3,890	2,000	3,890	Background Value	Yes
1607-B2:2_Shallow	Chlordane	μg/kg	0.43	1.42E+06	240	5,919	**	1.7	5,919	Scaled GWP SSL	No
1607-B2:2_Shallow	Chrysene	μg/kg	64	_°	240	c	**	100		c	
1607-B2:2_Shallow	Copper	μg/kg	51,480	7.69E+06	240	32,027	22,000	1,000	32,027	Scaled GWP SSL	Yes
1607-B2:2_Shallow	Dibenz[a,h]anthracene	μg/kg	22	en C	240	c		30		_c	
1607-B2:2_Shallow	Di-n-butylphthalate	μg/kg	33	88,471	240	368		330	0,368	Scaled GWP SSL	No
1607-B2:2_Shallow	Endosulfan I	μg/kg	6.9	7,192	240	30	-	3	0,030	Scaled GWP SSL	No
1607-B2:2_Shallow	Endosulfan II	μg/kg	3.4	7,192	240	30		3	0,030	Scaled GWP SSL	No No
1607-B2:2_Shallow	Fluoranthene	μg/kg	79	3.89E+08	240	1.62E+06	-	330	1,620,158	Scaled GWP SSL	No
1607-B2:2_Shallow	Heptachlor epoxide	μg/kg	0.60	c	240	→ ^c	**	2		c	-
1607-B2:2_Shallow	Hexavalent Chromium	μg/kg	436	6,000 ^e	240	6,000		1,000	6,000		No
1607-B2:2_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	25	_c	240	_c		330	**	c	
1607-B2:2_Shallow	Lead	μg/kg	10,463	c	240	c	10,200	5,000	••	_с	
1607-B2:2_Shallow	Mercury	μg/kg	240	1.34E+07	240	55,939	13	200	55,939	Scaled GWP SSL	No
1607-B2:2_Shallow	Methoxychlor	μg/kg	15	c	240	c	-	20		c	
1607-B2:2_Shallow	Naphthalene	μg/kg	17	6,798	240	28		330	330	RDL	No
1607-B2:2_Shallow	Phenol	μg/kg	17	7,909	240	33		330	330	RDL	No
1607-B2:2_Shallow	Pyrene	μg/kg	66	3.89E+08	240	1.62E+06	-	330	1,620,158	Scaled GWP SSL	No
1607-B2:2_Shallow	Strontium	μg/kg	47,600	3.89E+08	240	1.62E+06		1,000	1,620,158	Scaled GWP SSL	No
1607-B2:2_Shallow	Total beta radiostrontium	pCi/g	0.90	2,121	240	8.8	0.18	1	0,009	Scaled GWP SSL	No
1607-B7_Shallow	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	μg/kg	2.1	3.8	12	0.31		1.7	1.7	RDL	Yes
1607-B7_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg	31	c	12	c		330		_c	
1607-B7_Shallow	Lead	μg/kg	43,000	c	12	~ c	10,200	5,000		, C	-
1607-B8_Shallow	4,4'-DDT (Dichlorodiphenyltrichloroethane)	μg/kg	27	c	14	_c		3.3	-	_c	-
1607-B8_Shallow	Aroclor-1254	μg/kg	380	c	14	_e	_	17		_c	
1607-B8_Shallow	Lead	μg/kg	166,000	_c	14	c	10,200	5,000		_c	
1607-B8 Shallow	Mercury	μg/kg	103	1.34E+07	14	939,221	13	200	939,221	Scaled GWP SSL	No
1607-B9_Shallow	Anthracene	μg/kg		4.27E+07	28	1.52E+06		330	1,524,137	Scaled GWP SSL	No
1607-B9_Shallow	Benzo(a)anthracene	μg/kg	163	_c	28	_c	-	15		e	
1607-B9_Shallow	Benzo(a)pyrene	μg/kg	78	_с	28	, C		15	-	_c	_
1607-B9_Shallow	Benzo(b)fluoranthene	μg/kg	115	c	28	c		15		c	-
1607-B9_Shallow	Benzo(k)fluoranthene			c	28	_c	di de	15		c	
		μg/kg		c	28	_c		330		c	
1607-B9_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg				19		330	330	RDL	No
1607-B9_Shallow	Carbazole	μg/kg	25	537	28	c		100		_c	
1607-B9_Shallow	Chrysene	μg/kg		c	28				0.000		No
1607-B9_Shallow	Dieldrin	μg/kg		166	28	5.9 3,160	-	3.3 330	0,006 3,160	Scaled GWP SSL Scaled GWP SSL	No
1607-B9_Shallow	Di-n-butylphthalate	μg/kg		88,471 3.89E+08	28	1.39E+07	-	330	13,892,857	Scaled GWP SSL	No
1607-B9_Shallow	Fluoranthene	μg/kg		3.89E+08	28	1.59E+07	-	330	13,032,037	_c	
1607-B9_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg									
1607-B9_Shallow	Lead	μg/kg		c	28		10,200	5,000	470.574	c	Na.
1607-B9_Shallow	Mercury	μg/kg		1.34E+07	28	479,674	13	200	479,674	Scaled GWP SSL	No
1607-B9_Shallow	Pyrene	μg/kg		3.89E+08	28	1.39E+07	-	330	13,892,857	Scaled GWP SSL	No
600-232_Shallow	Aroclor-1254	μg/kg		c	148	_c	-	17		_c	-
600-232_Shallow	Benzo(a)anthracene	μg/kg		c	148	_c		15		_c	44
600-232_Shallow	Benzo(a)pyrene	μg/kg	91	_c	148	_c	-	15		_c	
600-232_Shallow	Benzo(b)fluoranthene	μg/kg		_c	148	_c	-	15	-	_c	
600-232_Shallow	Benzo(k)fluoranthene	μg/kg		c	148	_c	-	15	-	_c	-
600-232_Shallow	Bis(2-ethylhexyl) phthalate	μg/kg		c	148	_c	-	330	**	c	

Table 7-4. Comparison of EPCs from 100-BC Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

					With Background Con	sideration)					
Waste Site/Decision Unit	Analyte Name	Units	Exposure Point Concentration (µg/kg or pCi/g)	Unit -Length STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection* $\left(\frac{\mu g}{kg} \cdot m \ or \frac{pCi}{g} \cdot m\right)$	Site Width in Direction of Groundwater Flow ^b (m)	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length In Direction of GW Flow (µg/kg or pCi/g)	Hanford Site 90th Percentile Background Value (μg/kg or pCl/g)	Required Detection Limit (μg/kg or pCl/g)	Selected GWPSSL (µg/kg or pCl/g)	Selected GWP SSL Basis	Is EPC > Soil Screening Level Protective of Groundwater?
600-232_Shallow	Carbazole	μg/kg	28	537	148	3.6	_	330	330	RDL	No
600-232_Shallow	Chrysene	μg/kg	178	c	148		-	100	-	C C	-
600-232_Shallow	Dibenz[a,h]anthracene	μg/kg	18	c	148	c		30	-	_c	
600-232_Shallow	Di-n-octylphthalate	μg/kg	28	c	148	_c		330		¢	
600-232_Shallow	Fluoranthene	μg/kg	257	3.89E+08	148	2.63E+06		330	2,631,935	Scaled GWP SSL	No
600-232_Shallow	Indeno(1,2,3-cd)pyrene	μg/kg	43	_c	148	c	-	330	-	_c	
600-232_Shallow	Mercury	μg/kg	20	1.34E+07	148	90,872	13	200	90,872	Scaled GWP SSL	No
600-232_Shallow	Pentachlorophenol	μg/kg	150	330	148	2.2		330	330	RDL.	No
600-232_Shallow	Pyrene	μg/kg	227	3.89E+08	148	2.63E+06		330	2,631,935	Scaled GWP SSL	No
600-232_Shallow	Total petroleum hydrocarbons	μg/kg	10,059	1.00E+06 ^d	148	1000000	-	-	1,000,000	d	No
600-233_Shallow_Focused	Anthracene	μg/kg	47	4.27E+07	2.1	2.03E+07	-	330	20,321,821	Scaled GWP SSL	No
600-233_Shallow_Focused	Benzo(a)anthracene	μg/kg	290	c	2.1	_c		15		_c	
600-233_Shallow_Focused	Benzo(a)pyrene	μg/kg	180	_c	2.1	_c		15	-	_c	
600-233_Shallow_Focused	Benzo(b)fluoranthene	μg/kg	220	_c	2.1	c		15	-	_c	
600-233_Shallow_Focused	Benzo(k)fluoranthene	μg/kg	180	_c	2.1	_c	-	15	_	c	_
600-233_Shallow_Focused	Bis(2-ethylhexyl) phthalate	μg/kg	140	_c	2.1	_c	-	330	-	c	
600-233 Shallow Focused	Butylbenzylphthalate	μg/kg	28	60,438	2.1	28,780		330	28,780	Scaled GWP SSL	No
600-233_Shallow_Focused	Chrysene	μg/kg	340	c	2.1	_c		100		_c	
600-233_Shallow_Focused	Dibenz[a,h]anthracene	μg/kg	61	_c	2.1	_ c		30		_c	-
600-233_Shallow_Focused	Di-n-butylphthalate	μg/kg	68	88,471	2.1	42,129		330	42,129	Scaled GWP SSL	No
600-233_Shallow_Focused	Fluoranthene	μg/kg	690	3.89E+08	2.1	1.85E+08		330	185,238,095	Scaled GWP SSL	No
600-233_Shallow_Focused	Indeno(1,2,3-cd)pyrene	μg/kg	110	-c	2.1	_c	-	330	**	_c	
600-233_Shallow_Focused	Pyrene	μg/kg	510	3.89E+08	2.1	1.85E+08	-	330	185,238,095	Scaled GWP SSL	No
600-233 Shallow_Focused	Selenium	μg/kg	3,000	9,013	2.1	4,292	780	1,000	4,292	Scaled GWP SSL	No

Notes:

- a. ECF-HANFORD-15-0129. A 70:30 source distribution is used for analytes with Kd \geq 2 mL/g; a 100:0 source distribution is used for analytes with Kd \geq 2 mL/g. These soil screening levels, divide the listed value by a representative length across the waste site decision unit in the general direction of groundwater flow to obtain the soil screening level for evaluation use. (Note that this scaling is not applicable to soil cleanup levels for arsenic, hexavalent chromium, or TPH-diesel.)
- b. ECF-100-BC5-15-0119, Determination of Representative Lineal Dimensions for 1000BC Operable Unit Waste Site Decision Units for Use in Soil Screening Level and Preliminary Remedial Goal Comparisons to Exposure Point Concentrations.
- c. The calculated soil screening level for the analyte is considered non-representative because: (1) breakthrough is simulated within 1,000 years for some soil columns while other soil columns whi
- d. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."
- e. The soil screening level for hexavalent chromium is set to 6,000 µg/kg based on the evaluation in ECF-Hanford-11-0165; this value is not dependent on waste site size.
- f. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC.
- g. Uranium isotopes are accounted for by converting from activity-based (pCi/g) to mass-based (µg/kg) concentrations for the 100-NR-1 Source Operable Unit.
- h. A drinking water standard is not available.
- = Not applicable or no value

Table 1-4. Comparison of EPCs from JAM-EC Operation Unit Waster Site Decisions Units to 27 CMMP (E) Table(Saltin) Consequences Sources Model Intil Screening Levels Productive of Services Windows

Work She Shekkin Shift	Amalya Sinas	Anales Name	COMPA	-	Espassive Patrick Companies date Sandharar ar Child	Content to Water State State Contentant Source Madel Sail Streening Genet for Surface Water Systemation (SS. as at SS. as)	the table is threatened december flow	STUMP 3D 70.00/1000 Contembert Source Madel Suf Streening Lavel for Surface Water Francisco Soulce to Sto Length In Streeties of ONE New Joseph or a CASE	Numberd Disc 98th Percentile Sodigmental Volum Seafence prifets	Sugal ed Sisterium limit Jandin er piliki	Sales and GRAP SIX,	Shed STE he	to DPC> Self Screening Level Protection of Serious Water?
100-8-1 Shellow 2	box-Red		75-66-6	surface		2.0	20	0.025		2	2	ID.	Yes
100-8-14-2 Shellow 2	non-Red		7669-30-8	sentur.		98,717	12	7,662	22,000	1.000	22,000	Reckensoral Value	Yes
109-8-162 Shellow 2		Paripublic subsect	12-41-S	motor		550	12	2.7		530	330	ROL.	Yee
100-8-16 Shellow Fooged	non-fled		7640-22-4	sw5w		626	- 11	74	387	200	200	ROL.	Yes
100-0-10 Stadow Formed	non-Rad	Cadmium	760-68-6	nebe		.500	20	25.4	1.530	50	1,510	Redsmood Value	The
100-8-19 Shelton 2 100-8-19 Shelton 3	non-fiel	A.S	7762-89-2 2409-87-6	ander meter		1,000	75	5198	780	201	780	Buckensond Value	Yes
100-8-19 Shallow Featured	no-fed		7640-50-8	and a		89.505 89.737	219	428	22,000	200	3.396 22.000	Spring SMP SM. Performed Value	Yes Yes
100-8-19 Shallow Foograd	non-Red	ina	740-46-4	MOSE.		2,615+07	219	119,229	3.265+07	1,000	3.26E+07	Professional Value	Yes
100-8-19 Shellow Femand	non-Red		749947-6	Defre.	17,100	20,505	219	366	13	200	366	Seeind SWP SS.	Yes
100-8-20 Shellow Forward	non-Rad	Conner	7449-30-4	metur		55.737	3.2	29.287	22,005	1,000	29,287	Scaled SMP SS.	Yes
100-8-21-2 Mallow	non-flad	Chage	7449-22-4	ma/ue	3:90	226	33	25	167	200	700	- Ada	Yes
100-9-23.4 Stalling	non-find	Categium	.7782-40-2	and a	1.040	1.000	30	14	780	1,000	1.000	100.	Yes
100-9-32-5 Shallow Proceed	non-Red.	Center	7440-50-8	safe	66,700	\$8,737	126	742	22,000	2.000	22,000	Reciprocal Value	Ym
100-8-32-2 Shallow Frances	non-find		700-00-6	anche.		2,618+07	126	206,729	3,295+07	-	3,245+07	Declarated Value	Yes
100-8-22.2 Shallow Franced	non-Bad	More	7649-22-4	motor		826	126		167	200	200	100.	Ynn
100-5-23 Shellow Forumd	non-lind		7440-40-8	netu		500	1238	0.404	1,510	30	1,310	Buckground Vision	Yes
100-6-23 Shallow Personal 100-6-23 Shallow Femand	non-find		7.002-07-6	meter		80.365	1,218	65 114267	13	200	200	ADI.	Ym
100-0-27 Dane	non-find		7640-56-6 7640-70-8	sarfut.		3.89E-008 58.717	1,288	1.550	67,900 27,900	1,000	814,267	Smind 2007.28	Ynn
100-8-27 Deep	too-feel		7402-40-5	10074		2.616+62	47	1300	32,000 3,268+07	1,000	22.000 3.29E+07	Reclament Value	Yes
100-0-27 Dans	and-find		7460-22-4	sector.		525	47	3.0	167	200	100	Recistrated Volum.	Yan
100-8-28 Shallow Femand	non-deal		7660-30-6	serie.		WL 717	151	622	22.000	1,000	22.000	Reciprocal Value	Yes
100-8-28 Shallow Femoral	ton-fad		7408-89-6	Herital		2,618+07	151	179.372	3.24E+07	1 100	9.265+07	Declarated Volum	Yes
100-8-10 Shallow Personal	ann-find		7400-97-6	and a		80.565	134	585	13	290	343	Souled SHP SM	Yes
160-0-01 Shallow	ann-find	Course	7440-50-6	MP/RE		59.717	15	6,206	22,000	1,000	22,000	Declarated Valve	Yes
100-8-351 Date Formed	ann-fad		7440-30-6	surfu.	22,200	99,717	22	4,271	72,000	1.000	22,600	Reciprosed Value	. Yes
100-852 Shallow Procured	non-flad	West	7440-22-4	nefer		626	16	- 52	167	200	200	800	Yes
100-8-5 Dees	nen-led	Marray		motor		80.585	. 28	2,920	13	200	2.600	Starked SHIP SSL	Yes
100-C-92 Shallow Facured	asp-fiel.		7489-30-8	mor.		ER-717	15	6,812	22.000	1,000	22,000	Sepherond Yeles	Yes
100-C-R2 Shallow Festional 116-8-13, Done	non-find	Fairin	72-20-8	simbs.		3.0	15	0.208		1		ROL.	Yea
136-8-4 Date	no fee		7409-47-6 7440-22-4	serie.		80.365	33	21	167	200	200	Smiled SMP SS.	Yes
U.S.S. Steller, Propert	non-line		7400-07-6	more.		80.565	14	2,140	13	200	2.248	San had SHIP SEE.	Yes
126-C-1 Deep	no lad		7400-57-6	ne/se		80.585	- 4	1.601	13	200	1.605	Souled DMP STS.	Ves
135-C-1 Deep Forward	too flad		7600-69-9	see/ket		500	54	8.70	1,510	50	2,510	Beckersund Value	Yes
128-C-1 Dave Focused	non-Red	Conner	7660-30-6	Mag.		89.757	9	1,630	22,000	1000	22,000	Sachera and Value	Yes
136-C-1 Days Focused	nen-fied		7400-97-5	netw	11,800	80.385	- 50	1,405	13	200	1.60	Smiled SMP SM.	Yes
126-C-1 Date Fernand	non-Red		7660-22-6	series.		\$25	34	2.6	167	200	200	101	Yes
150-C-0 Shallow Posteroil	non-Red	Ther.	7440-22-4	MARK.	279	825	44	180	167	200	200	ROL	Yes
136-C-5 Deep	non-Red	Metory	749847-4	Mega.	2.636	80,585	-	166	13	200	286	Southel StdP Sts.	Ym
118-8-1 Sellow 4 118-8-1 Sellow 7	non-Bad	Digitals.	50-37-1 7640-30-8	MAGE	25,700	58 89.717	37	1,704	22 000	1,000	22,000	Socied SNP SIL. Seclestand Value	Yes
118-8-1 Shallow Porcent	too-lad		7440-30-5	Market.		95.717	251	174	22,000	1,000	22,000	Sectional Value	Yea
128-9-3. Shallow Procured	non-final		7495-97-6	Nerthe.		80.585	251	521	15	200	825	Souled 2007 256	Yes
118-C-1. Shallow II	ton-bad	County	7460-30-8	Mary Page	45,200	85.717	42	2.278	22,000	1,000	72,000	Backersond Valve	Yes
138-C-1, Shellow Pocused	non-find	Country	7660-50-8	uete	23,100	95.717	14	1,115	22,000	1.000	22,000	Bedgetound Volus	Yes
SSC-SS Shallow Focused	sun-Red	Conner	7440-30-E	MAR.	18,300	\$6,717	. 60	1.554	22,000	3,000	22,030	Backeround Value	Yes
130-9-1 Shallow Focumed	ma-fiel		7440-22-4	mefor		426	11	78	267	200	200	100	Yes
126-8-3 Shallow	ann-bad		7440-30-8	mbe	28.952	\$8,717	El .	1.072	22.000	2.000	22,000	Backeround Volum	Yes
126-8-5 Shallow 2	nee-flad		7640-30-8	uete		98,717	- 4	2,010	22,000	1,000	22,000	Bedground Valve	Yes
128-S-S Shallow 2	non-field		7640-22-4	moke		826	66	18	167	200	200	RDs.	Yes
PROBLEMS STATION S	ena-fad	The state of the s	7660-22-6 7660-30-8	serke.		826 98.717	65	2.054	22,000	200 1,000	200 22,000		Yes
128-C-1 Shellow	non-fast	Colonium	7792-49-1	market.		1,000	45	22	780	1,000	1,000	Recigreemed Value	Yes
134C-1 Stellow	no led	18hart	7600-22-4	Marke.		826	65	18	167	200	200	868	The .
20-5-2 Stellar Stoogs	model.	Codesius	7440-61-9	ne/se		300	57	19.5	1,510	30	1,530	Reciprocal Volum	Tee
1007-00's Shellow	no-fed	Conner	7440-50-8	Mile		95,717	36	2,625	22,600	1,000	22,000	Englament Volum	The
SCC-80-2 Shellow	mo-feel		. 7400-SD-E	mike		51,717	240	3.90	22.000	1,009	. 22,000	Studentoned Volum	Yes
1007-60-2 Shallow		Entonobel	109-09-0	meter		8.2	260	9,617		1	1	RDL.	Yes
1607-82-2 Shallow		Endouifes il	11213-43-0	ue/ke		42	240	9,017	-		1	RDs.	Yes
LRO7-BIL Shallow	non-fied		60-57-1	ue%e	4.4	54	28	21		12	1.1	874	Vac

Rectam

s. 127-99999900-13-0122-3. 7 Phill source distribution to small for exactly on wife of a real-gray with fiel or real-gray with field or real-gray with fiel

b. ICT-16/3CT-15-0133. Determination of Representative Used Discountering to DBMC Generals Unit Water tills Deviced Using the Use in 2nd Federatory Remaind Used Comparison to Description Using the Use in 2nd Sequence Used Comparison of Comparison and Comparison of Comparison of Comparison and Comparison of Co

a. A coil summing level is not colorated because a motion veter cleanup form) is not well this for the poolyte

d. The estimated and consuming breat for the easily in its consistent of the easily in its consistent of the easily in its constituted as the easily in its consistent of the easily in its co

The cost traversing level for heaverful chromium is not to 4,000 pg/kg based on the unskelder in EUF-Hamford 13-0005; this value is not dependent on while his operation.

f. His Value Required, blumium is not regulated because unintens use not identified in the groundwater risk parameters as a C

g. Understand the proposed for proceeding from a clinic field by proceeding from a clinic field by proceeding flow and field from the field field for the field of the field o

		6. Evaluation of 100-BC OU Weste Site Decision Units with EPC					Is EPC > Soil
Waste Silte/Decision Unit	Analyte Group	Analyte Name	CAS No.	Exposure Point Concentration (ug/kg or pCl/g)	Selected GWP SSL (agring or pCl/g)	Selected GWP SSI, Bests	Screening Level Protective of Generalwater?
100-B-1 Shallow 2	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclobexane (beta-BHC)	319-85-7	6.8	1.7	RDL	Yes*
100-B-1 Shallow 2	non-Rad	Heptachior	76-44-8	5.5	2.0	RDL	Yes ^b
100-B-14:2 Shallow 2	non-Rad	Pentachlorophenol	87-86-5	1,900	330	RDL	Year
100-B-18 Shallow Focused	non-Rad	Boron	7440-42-8	34,200	17,690	Scaled GWP SSL	Yes ⁴
100-B-1\$ Shallow Focused	non-Rad	Cadmium	7440-43-9	13,200	1,510	Background Value	Yes*
100-8-18 Shallow Focused	non-Rad	Naphthalene	91-20-3	440	345	Scaled GWP SSL	Yesf
100-B-19 Shallow 2	non-Rad	Selenium	7782-49-2	1,280	780	Background Value	Yes ⁶
100-B-19 Shallow Focused	non-Rad	Iron	7439-89-6	3.96E+07	3.26E+07	Background Value	Yesh
100-B-21:4 Shallow	non-Rad	Sclenium	7782-49-2	1,040	1,000	RDL	Yes
100-B-22:2 Shallow Focused	non-Rad	Boron	7440-42-8	9,230	3,890	Background Value	Yes
100-B-22-2 Shallow Focused	non-Rad	Copper	7440-50-8	66,700	60,884	Scaled GWP SSL	Yesk
100-B-22-2 Shallow Focused	non-Rad	Iron	7439-89-6	4.43E+07	3.26E+07	Background Value	Yes
100-B-22:2 Shallow Focused	non-Rad	Silver	7440-22-4	1,960	218	Scaled GWP SSL	Yes"
100-B-23 Shallow Focused	non-Rad	Boron	7440-42-8	14.100	3,890	Background Value	Yes*
100-B-23 Shallow Focused	non-Rad	Cadmium	7440-43-9	1,700	1,510	Background Value	Yes°
100-B-23 Shallow Focused	non-Rad	Carbazole	86-74-8	370	330	RDI.	Yes
100-B-23 Shallow Focused	non-Rad	Fluorene	86-73-7	390	330	RDL	Yes
100-B-23 Shallow Focused	non-Rad	Zinc	7440-66-6	1.31E+06	314.267	Scaled GWP SSL	Yes'
	non-Rad		7439-89-6	3.61E+07	3.26E+07	Background Value	Yes"
100-B-27_Deep		Iron	,	21072			
100-B-28_Shallow_Focused	non-Rad	Iron	7439-89-6 75-09-2	3.69E+07	3.26E+07 5.0	Background Value	Yes
100-C-3_Shallow	zon-Rad	Methylene chloride			330	RDL.	Yes
100-C-9:3_Deep_Focused	non-Rad	Carbazole	86-74-8	7,300	1,677	Scaled GWP SSL	Yes
100-C-9-3 Deep Focused	non-Rad	Dibeszofuras	132-64-9	3,000	41		Yes
116-B-4_Deep	non-Red	Methylene chloride	75-09-2	8.0	5.0	RDL	Yes
116-B-4_Deep	non-Red	Silver	7440-22-4	720	708	Scaled GWP SSL	Yes ⁷
116-B-5_Shallow_Focused	Rad	Tritium	10028-17-8	680	10	RDL	Yest
116-C-1 Deep	Rad	Total beta radiostrostium	SR-RAD	64	37	Scaled GWP SSL	Yes
116-C-1_Deep_Focused	non-Rad	Cadmium	7440-43-9	2,900	1,510	Background Value	Yes ^M
116-C-1_Deep_Focused	non-Rad	Silver	7440-22-4	890	479	Scaled GWP SSL	Yez ^{ab}
116-C-1 Deep Focused	Rad	Total beta radiostrontium	SR-RAD	88	37	Scaled GWP SSL	Yes
118-B-1_Shallow_1	non-Rad	Methylene chloride	75-09-2	15	5.0	RDL	Yes
118-B-1_Shallow_i	Rad	Tritium	10028-17-8	239	10	RDL	Yes ^{ad}
118-B-1_Shallow_2	Rad	Tritium	10028-17-8	60	10	RDL	Yes
118-B-1_Shallow_3	non-Rad	Carbon tetrachloride	56-23-5	11	5.0	RDL	Yes"
118-B-1_Shallow_3	non-Rad	Methylene chloride	75-09-2	26	5.0	RDL	Yes ^{ag}
118-B-1_Shallow_3	Rad	Tritium	10028-17-8	19	10	RDL	Yes ^{sh}
118-B-1_Shallow_4	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	7.8	1.7	RDL	Yes"
118-B-1_Shallow_4	non-Rad	Carbon tetrachloride	56-23-5	17	5.0	RDL	Yes'i
118-B-1_Shallow_4	zon-Rad	Methylene chloride	75-09-2	12	5.0	RDL	Yes ^{ab}
118-B-1_Shallow_5	non-Rad	Methylens chloride	75-09-2	13	5.0	RDL	Yes st
118-B-1_Shallow_6	non-Rad	Carbon tetrachloride	56-23-5	7.0	5.0	RDL	Yes ^{en}
118-B-1_Shallow_6	non-Rad	Methylene chloride	75-09-2	10	5.0	RDL	Yes ^m
118-B-1_Shallow_7	non-Rad	Boron	7440-42-8	18,100	6,336	Scaled GWP SSL	Yes ^{no}
118-B-1 Shallow 7	non-Rad	Carbon tetrachloride	56-23-5	10	5.0	RDL	Yes**
118-B-1 Shallow 7	non-Rad	Methylene chloride	75-09-2	10	5.0	RDL	Yes ^{1q}
118-B-1 Shallow Focused	non-Rad	Acetom	67-64-1	99	69	Scaled GWP SSL	Yes"
118-B-1 Shallow Focused	non-Rad	Boros	7440-42-8	24,500	3,890	Background Value	Year
118-B-1 Shallow Focused	non-Rad	Methylene chloride	75-09-2	16	5.0	RDL	Yes*
118-B-1 Shallow Focused	Rad	Tritium	10028-17-8	137	10	RDI.	Yes ^m
118-B-6_Deep	Rad	Tritium	10028-17-8	2.780	10	RDI.	Yes
118-B-6 Shallow	Rad	Tritium	10028-17-8	241	10	RDL	Yese
118-C-1_Shallow_2	non-Rad	Methylene chloride	75-09-2	14	5.0	RDL	Yes
118-C-I Shallow 3	non-Rad	Methylene chloride	75-09-2	12	5.0	RDI.	Yes ^{ey}
118-C-1 Shallow 4	non-Rad	Methylene chloride	75-09-2	13	5.0	RDI.	Yes
118-C-1_Shallow_Focused	non-Rad	Carbon tetrachloride	56-23-5	39	5.0	RDL	
118-C-1 Shallow Focused 118-C-1 Shallow Focused	non-Rad non-Rad	Methylene chloride	75-09-2	19	5.0	RDL.	Yes bb
			14133-76-7	12	0.51	Scaled GWP SSL	
118-C-3:2_Deep_Focused	Rad	Technetium-99 Methylene chloride			5.0	Scaled GWP SSL RDL	Yes
118-C-4_Shallow	non-Rad		75-09-2	12	3.987		Yes ^M
126-B-3_Shallow	non-Rad	Boron		4,21,2	opro.	Scaled GWP SSL	Yesh
128-B-3_Shallow_1	non-Rad	Methylene chloride	75-09-2	8.2	5.0	RDL	Yes ^M
128-B-3_Shallow_2	non-Rad	Methylene chloride	75-09-2	12	5.0	RDL	Yes ^{hg}
128-B-3_Shallow_3	non-Rad	Methylene obloride	75-09-2	16	5.0	RDL	Yes th
128-C-1_Shallow	non-Rad	Boron	7440-42-8	9,818	7,676	Scaled GWP SSL	Yesh
128-C-1_Shallow	non-Rad	Selenium	7782-49-2	1,300	1,000	RDL	Yes ^{bj}
128-C-1_Shallow	non-Rad	Silver	7440-22-4	6,600	606	Scaled GWP SSL	Yes ^{bt}
128-C-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1,797	1,510	Background Value	Yes ^M
1607-B1_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	0.52	26	Scaled GWP SSL	Yeshm
1607-B2:1 Shallow	non-Rad	2,4,5-T(2,4,5-Trichlorophenoxynoetic acid)	93-76-5	47	20	RDL	Yes ^{ba}
1607-B2:1 Shallow	non-Rad	2,4,5-TP(2-(2,4,5-Trichlorophenoxy)propionic acid)Silvex	93-72-1	23	100	RDL	Yes ^{bo}
1607-B2:1 Shallow	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	250	9,762	Scaled GWP SSL	Yesho
1607-B2:1 Shallow	non-Rad	Boron	7440-42-8	19,810	1.7	RDL	Yes ^{bq}
1607-B2:2 Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	1.9	3,890	Background Value	Yesh
1607-B2:2 Shallow	non-Rad	Boron	7440-42-8	4,666	32.027	Scaled GWP SSL	Yesh
	THE PERSON	D. Carlotte		-,000			
1607-B7 Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	2.1	1.7	RDL	Yesh

Exceeded GWP SSI, but eliminated through further evaluation. The calculated EPC for bute-BEC (6 E agrig) is based on the 95% KM (% Bootstray) UCL from a set of 13 samples (2 detects and 11 nondetects). Biological controls including particules and herbisides are applied on the Hanford Site to prevent the spread contamination by biological ventors and comply with environmental, safety, beath and quality principals. The presence of this particular is Birthy from application of biological ventors and not the result of Hanford Site operations and is unlikely to impost groundwater.

Exceeded CWP SSL, but eliminated through further evaluation. The calculated EPC for heptackler (5.5 pg/kg) is based on the maximum detection from a set of 13 samples (1 detect and 12 necessators). Biological overtrels including posticides and herbicides are applied on the Handred Site to prevent the spread of ntamination by biological overtres and comply with unvironmental, softer, health and quality principals. The presence of this periods is likely from application of biological controls and not the result of Handred Site operations and is notifiedly to impact groundwater.

Emonded GWP SSL, but diminated through further exhibition. The calculated EPC for pertuchlerophaned (1,900 µg/kg) is bested on the maximum distortion from a set of 10 samples (1 detect and 9 acadetocsis). The EPC represents a very low mass of potential contamination and there is not a significant potential that existence could migrate through the vectors zone and result in a concentration that could impact groundwater.

d. Exceeded GWP SSL but eliminated drough further evaluation. The calculated EPC for become (34,200 pg/kg) is based on the maximum detection from a set of 11 samples (11 detects). With the exception of the maximum detection, become results were widin the range of saturally conserving levels (3,800 pg/kg) at the Hauferd Size. The EPC library overestates the consentration at this decisions unit and multilary to impact groundwider.

Exceeded GWP SSL, but dissinated through further evaluation. The calculated EPC for cadmism (13,200 pg/kg) is based on the maximum detection from a set of \$11 samples (\$ detects and \$3 nondetects). With the exception of the maximum detection, codmism results were within the range of naturally constring levels 63 pg/kg and 2,900 pg/kg) at the Headerd Sin. The EPC likely overstein the consumeration at this decision suit and excitably to impact proundwater.

Exceeded GWP SSL, but disminated drough further evolution. The calculated EPC for nephthelaem (440 µg/kg) is based on the maximum detection from a single sample. A field deplicate was exclusive from this Jourism and reported a concentration of 140 µg/kg which is less than the SSL. The EPC likely overentees a concentration at this decision unit and unlikely to impost groundwater.

Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for solution (280 pg/kg) in based on the maximum detection from a set of 12 sampless (1 detect and 11 needetacts). The EPC represents a very low most of pointful contamination and there is not a significant potential that contamination could migrate through the values zone and result in a concentration that could impost groundwater.

h. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for selection and (1,940 pg/kg) is based on the 95% KM (% Bootstrup) UCL from a set of 12 samples (2 detects and 10 mandetects). The EPC represents a very low mass of potential contamination and there is not a capationnt potential that contamination could migrate through the verbes zone and result in a concentration that could impost groundwater.

needed GWP SSL, but eliminated through further evaluation. The calculated EPC for schemium (1,200 µg/kg) is based on the maximum concentration from a set of 14 energies (1 detect and 13 nondetects); the single detection was greater than Handord Site background. The EPC represents a very low mass of potential diseases and there is not a significant potential distriction was greater than Handord Site background. The EPC represents a very low mass of potential diseases and there is not a significant potential distriction was greater than Handord Site background. The EPC represents a very low mass of potential diseases and there is not a significant potential distriction was greater than Handord Site background. The EPC represents a very low mass of potential diseases.

Table 7-6. Evaluation of 100-BC OU Waste Site Decision Units with EPCs 6 Analyte Name jugikg or pClys (pg/kg or pCVg) elected GWP SSL Br Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for boxes (9,220 µg/kg) is based on the maximum detection from a set of 10 samples (6 detects and 4 numbers). With the maybe and 5,860 mg/kg) or the Headerd Site. The EPC librity oversistes the concentration at this decision unit and malkely to inscend promotivate. ion of the marri Exceeded GWP SEL but aliminated through further evaluation. The cales hated EPC for copper (56,700 µg/kg) in based on the nucriseons chaocies from a set of 10 samples (10 detects). With the exception of the au-Exameled CHVP SSI, but officialisated filterings further evolutions, The administrated SEC for iron (44,300,000 pg/kg) in based on the sectionary detection flow a set of 10 examples (10 detects). All iron complex are writin the range of naturally occurring break (25,600,000 pg/kg and 6,810,000 pg/kg) at the hindred Size. The arted through further evaluation. The calculated EPC for silver (1,699 µg/kg) is based on the maximum detection from a set of 10 samples (3 detects sed 7 sendescets); all 3 detections were greater than the SSL. The EPC represents a very low mean of potential contamination could migrate through the varieties great and ment in a concentration that could impact groundwater. n. Extended GWP SSL but eliminated favoragh forther evolution. The calculated EPC for boron (14,100 pg/kg) is based on the maximum detection from a set of 4 samples (3 detects and 1 recodeted). With the acception of the paccimum detection, boron recode ways within the range of antennily occurring levels (3,600 pg/kg and 5,900 pg/kg) at the Endered Sas. The EPC Entry oversities the concentration at this descripts and military to insend exceedables. Exceeded GWP SSL but of minested through further evaluation. The calculated EPC for orderism (1,700 µg/kg) is based on the m.
 Sits. The EPC likely computates the concentration at this decision until and malikely to instead erroneduater. um detection from a set of 4 semples (3 detects and 1 nondetect). All codmism rurals wave within the range of naturally occurring levels (563 p.g/kg and 2,590 p.g/kg) at the Heafter role (370 µg/kg) is based on the maximum detection from a set of 3 samples (1 detect and 2 nondetects). The EPC represents a very low mean of potential contr 4. Exceeded GPP SSL but delimined through further evaluation. The education EPC for flowerms (199 age/kg) is based on the excitations detection from a set of 3 samples (1 detect and 2 concisions). The EPC represents a very low cases of probabilist contamination and there is not a significant potential that excitamination and margin in a consensation that confidence is reached and probabilistic and margin in a consensation that confidence is reached and margin in a consensation that confidence is reached and margin in a consensation that confidence is reached and margin in a consensation that confidence is reached and margin in a consensation that confidence is reached and margin in a confidence is reached and margin in a consensation that confidence is reached and margin in a confi F. Extended GWP SSL but eliminated through further ovaluation. The calculated EPC for zinc (1,310,000 µg/kg) is based on the maximum detection from a set of 4 samples (4 detects). With the exception of the maximum detection, zine results were within the range of naturally covering levels (67,800 µg/kg and 346,000 µg/kg) at the Hanford Site. The EPC blacky conventent the concentration at this decision unit and unknown properties. Exampled CWP SSL. but distinished through Parties or withinking through Parties or withinking. The contraction of the contracti ind GWP SSL but eliminated through further evaluation. The calculated EPC for iron (16,000,000 µg/kg) in based on the macrimum detection from a set of 6 sampless (6 detects). All iron results are within the range of autorally occurring levels (32,600,000 µg/kg and 68,100,000 µg/kg) in the Handwed Site. The yourseless the concentration at this clusion unit and malkely to impact groundwater. Economical CHVP SSD, but eliminated through further evolution. The calculated EPC for mothylene chloride (16 µg/kg) is based on the meximum detection from a set of 4 samples (3 detects and 1 nondetect). Multiyluse chloride is a common inhoratory on the manple is collected in the field. solid CMP SSL, but disminsted discough further evaluation. The colorated EPC for curbusols (7,300 gy/kg) is based on the maximum datestion from a set of 2 sumples (2 detects). Both carbacels results were flagged "P" indicating they are actimated concumerations. The EPC Eludy overstates the accusance of the concentrations of the concentration o and GWP SEL tost eliminated through further evaluation. The calculated EPC for dibenceforces (3,000 ye/kg) is based on the excriments detection from a set of 2 ramples (1 detect and 1 nondetect). The single detection was qualified with a "I" flag indicating it is on estimated conomication. The EPC likely a concentration at this decision unit and calificity to impact ground-restor. corded GWP SSL but eliminated through further continuous. The calculated EPC for multy-less chloride (8 pg/kg) is based on the mecianism distortion from a set of 3 complex (1 detect). The mingle detection of metry-less chloride was flagged "B" indicating it was detected in both the me shed OWP SSL but wiminated decough further ovuluation. The calculated EPC for rilver (720 µg/tg) is based on the 95% KM (% Boothrep) UCL from a set of 6 samples (2 detects and 4 nondatasets); both detections were greater than Hanford Site background. The EPC represents a very low mass of position and there is not a significant potential that constantiation could migrate through the values zone and result in a concentration that could impact groundwater. aded GWP SSL but eliminated through further ovaluation. The calendard EPC for tritiem (640 pCV₂) is based on the maximum detection from a set of 6 samples (3 detents and 3 rendetects). Site-specific vadous zone modeling was performed using the soil eclasmic that was most representative of the remodeled washes and of the wards are soil column; tritium concentrations did not impact ground-stater using soil consentrations representative of the wards sin (see ECF-ELN-FORD-15-0129). ns. Ecosoded GWP SSL but oliminated through flurther evaluation. The calculated EPC for codmirms (2,900 µg/kg) is based on the maximum detection from a set of 7 samples (5 data (563 µg/kg and 2,900 µg/kg) at the Henfard Site. The EPC Electy overstates the concentration at this decision unit and is multicity to impact groundwater. ots and 2 nondetects). With the exception of the maxim db. Exceeded GWP SSL but climinated through further evaluation. The calculated EPC for allvar (890 µg/kg) in based on the participum concentration from a set of 7 numphus (1 detect and 6 neededoots); the single detection was greater than Handord Site buckground. The EPC represents a very low mass of put contamination and there is not a significant potential that contamination could migrat through the vadous zone and result in a concentration that could impact groundwater. Exceeded GWP SSL but effectived forwards forwards from the revolution. The columnated EPC for methylene elderide (15 pg/kg) is based on the naccions detection from a set of 2 samples (2 detects). Methylene ablords is a common laboratory contaminant indicating that the contransinate is introduced in the laboratory of the first of the contractive of the c nd. Econoded GWP SSL but eliminated through further evaluation. The calculated EPC for tritium (239 pCV) is based on the succineum detection from a set of 2 samples (1 detect and 1 resoluted). Site-specific videous mass modeling was performed using the soil columns that was most representative of the real relationship of the resolution from a set of 2 samples (1 detect and 1 resoluted). Site-specific videous mass modeling was performed using the soil columns that was most representative of the real relationship of the resolution from a set of 2 samples (1 detect and 1 resoluted). Site-specific videous mass modeling was performed using the soil columns that was most representative of the real relation from the resolution of the resolution from the resolution of the resolution from the resolution of the resolution from the resolution fr Exceeded GVP SSL but eliminated through further evaluation. The calculated EPC for tritises (60 pC/g) is based on the maximum detection from a set of 4 number (1 detect and 3 nonder instead of the worst case scheme, tritism contentrations did not impost presentents using soil concentrations representative of the waste site (see ECF-HANFORD-15-0129). ott). Silo-e of Expeeded GWP SSL but olim issuinment discreage further evaluation. The calculated EPC for curbon tetraddecide (11 gg/kg) is based on the maximum detection from a set of 4 samples (2 detects and 2 conducted). Concentrations of carbon tetraddecide range between # µg/kg and 11 µg/kg. The EPC represents a very low and there is not a significant potential fluid continuisation could migrant through the verbes zone and result in a concentration that could impost groundwater. Exceeded CWP SSL but eliminated through further overhances. The calculated EPC for mode/stees chloride (26 paylog) is based on the maximum, detection from a set of 4 samples (3 threets and 1 nemphrent). Multipless chloride is a common hiberatory contaminant inflicating that the contaminant inflicating that the contaminant is introduced in the fact. th. Exceeded GWP SSL but eliminated through further evaluation. The colonisated EPC for tritions (19 pC/g) is based on the maximum detection from a set of 4 sampless (1 detected the second of the worst cases octume, tritism concentrations did not impact groundwater using soil concentrations representative of the waste site (see ECF-HANFORD-15-0129). and 3 nondetects). Site-specific visions zone modeling was performed using the coil column that was most rep ii. Extensibled GWP SSL but dissinated through further evaluation. The calculated EPC for bota-BHC (7.8 µg/kg) is based on the naccimum concentration from a set of 4 samples (1 detect and 3 sendences). Biological controls including posticides and berbisches are applied on the Handard Site to prevent the aprend of contemination by biological ventors and comply with nevironmental, suffer, health and quality principals. The presence of this posticide in blody from application of biological controls and not the rows it of Handard Site operations and is militarly to impact groundwater. unted EPC for carbon tetruchlorists (17 µg/kg) is based on the macrimum detection from a set of 4 sensyles (4 detects). Concumerations of ourbon tetruchlorish range between 5 µg/kg and 17 µg/kg and represents a very low mean of pointerial ignite forcept the verbon zone and result in a concentration that could impact groundwater. nk: Economical GWP SSL but of sample is collected in the field. ection from a set of 4 samples (4 detects). Methylene chloride is a comrugh further evaluation. The calculated EPC for mothylese chlorids (12 µg/kg) is based on the munimous de had GWP 28), that distinuted this couple further evolutionist. The colonizated EPC for multiplene educated in both the reconstructed months from a set of 4 samples (4 detects). All 4 detections of morely-free adulated were flagged "9" infiniteling it was detected in both the reconstructed months of decisions mile.

EPC conventation of materials of decisions mile. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for ourbon tetrachloride (7 µg/kg) is based on the maximum detection from a set of 4 samples (4 datests). Concentrations of carbon tetrachloride range between 2 µg/kg and 7 µg/kg and 7 µg/kg and 7 µg/kg and represents a very low mass of potential manimistion and three is not a significant potential that constantiation could migrate through the valous zone and result in a concentration that could impact groundwater. ration from a set of 4 samples (4 detects). Mathylese abloride is a common leboratory con aded GWP SSL but of ration. The calculated EPC for multylene chloride (10 µg/kg) is based on the maximum de est indicating that the contact o. Exceeded GWP SSL but all ded GWP SSL, but eliminated through further evaluation. The calculated EPC for boron (18,100 µg/kg) is based on the maximum detection from sect of 4 samples (4 detects). With the exception of the two detections (the nuclinum and 7,000 µg/kg), become results were within the reage of manually occurring one (3,000 µg/kg mel 5,860 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and calibraty to impact groundwrater. recht GWP SSL but elliminated through further evaluation. The calculated EPC for carbon tetrachboride (10 µg/kg) in based on the sections of the section from a set of 4 samples (3 detects and 1 mondenes). Concentrations of carbon tetrachboride range between 9 µg/kg and 10 µg/kg md reper contamination and three is not a significant potential that contamination could migrate through the various zone and result in a concentration that could impact groundwater. as. Exceeded GWP SSL but dissinated through further evaluation. The calculated EPC for mothylane oblevides (10 μq/kg) is based on the maximum detection from a set of 4 samples (2 detects and 2 seculescets). Methylane oblevides is a secumena laboratory contentianed indicating that the contentianed in the laboratory share the sample is collected in the field. ached GWP SSL but eliminated through further evaluation. The coloulated EPC for nontone (99 µg/kg) is based on the maximum detection from a set of 2 samples (2 detects). The lower of the two detected on the concentration of section at this decision mit and malifesty to impact groundwater. ious was qualified with a "B" flag indicating its praemoe is the result of laboratory needed GWP SSL but eliminated through further ownlastics. The calculated EPC for boron (24,500 s.g/kg) is based on the maximum detection from a set of 12 samplin (12 detects). Three boron detections, ranging from 13,100 ug/kg to 24,500 ug/kg, were above naturally constring consumers on the sampling of naturally constring consumers of naturally constraints. nched GWP SSL but eliminated through further overhation. The calculated EPC for multiplease chlorids (16 µg/kg) is based on the maximum dataction from a set of 2 samples (2 datacts). Both methyleses chlorids were flagged "B" indicating it was detected in both the seccisived method blank and in the samples chloride is a scenarion betweenow, before increasing that the contaminant is introduced in the informative plant of the samples is collected in the fide.

tion. The calculated EPC for tritime (137 pCVg) in based on the maximum dataction from a set of 6 samples (4 datacts). Site-specific vedors zone anodeling was performed using the soil scheme that was most regressionate using soil concentrations representative of the wests site (see ECF-HANFORD-15-0129). SSL but eliminated through further evaluation. The calculated EPC m; tritism concentrations did not impact groundwater using soil on

v. Exceeded GWP SSL but eliminated discough further evaluation. The calculated EPC for tritines (2,780 pCVg) is based on the naximum detection from a set of 4 samples (4 detects). Site-specific vurtoes trem modeling was performed using the scill column that was most representative of the remediated was revert case column; tritines concentrations did not impact groundwater using scill concentrations representative of the wester also column; tritines concentrations did not impact groundwater using scill concentrations representative of the wester also (one ECF-HANFORD-15-0129).

Exceeded GWP SSI, but alianizated through further evaluation. The calculated EFC for tritism (241 pC/y) is based on the maximum detaction from a set of 4 samples (2 detacts and 2 mendetacts). Site-specific values zone modeling was purfer to alia instand of the worst case column; tritism concentrations did not impact groundwater using soil concentrations representative of the waste site (see ECF-HANFORD-15-0129).

whimisested through further evaluation. The calculated EPC for mothylene obloride $(14 \mu_0/k_0)$ is based on the maximum detection on beloratory contaminant indicating flast the contaminent is introduced in the beloratory after the sample is collected in the field. m from a set of 3 samples (3 detects). All mothylms chloride results were flagged "B" indicating it was det

of GWP SSL inter aliminated through further evaluation. The calculated EPC for methylms obligated (12 age/tg) is based on the maximum detection from a set of 6 samples (4 detects). All methylms obligates results were illugated "8" indicating it was detected in a consuce laboratory contaminant indicating that the contaminent is introduced in the laboratory after the sample is collected in the field.

solud GWP SSL, but aliminated through further evaluation. The colonisated EPC for mothylesse oblovids (3 µg/kg) in based on the 95% Student's UCL, from a set of 5 namples (5 datasets). All methylesse oblovids results were flagged "B" indicating it was detected in both the successed method blank and in the follypease oblovids is a common laboratory contaminant indicating that the contaminant is introduced in the following when the success of the property of the success of the property of th

GWP SSL but officinated through further evaluation. The calculated EPC for carbon introduction (99 µg/kg) is based on the maximum detection from a set of 2 samples (2 distonts). Concentrations of carbon introductoris range between 10 µg/kg and 39 µg/kg and represents a very low mean of potential need there is not a significant pointerial pointerial contamination could migrate through the various insent needs in a concentration that could impost groundwater.

Table 7-6. Evaluation of 100-BC CU Wester Site Decision Units with EPG Greater than Groundwater Protection Soil Screening Levels

Exposure Point

Exposure Poi

- ble. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for methylane chloride (19 µg/kg) is based on the maximum detection from a set of 3 sampless (2 detects used 1 nonidetect). Methylane chloride is a common laboratory contaminant indicating that the contaminant is introduced in the laboratory aller the margin is collected in the field.
- bs. Exceeded GWP SSL but diministed through further evaluation. The calculated EPC for technicism-99 (1.2 pCi/g in based on the meximum detection from a set of 12 samples (2 detects and 10 nondetects). Detected concentrations are 0.71 pCi/g and 1.2 pCi/g and 1.2 pCi/g and represent a very low mass of potential contamination and there is not a significent principal that contamination could migrate through the vadors some and result in a concentration that could imput group/water.
- bd. Exameled GWP SSL but eliminated through further evaluation. The exhaulsted EPC for molly/me obloride (12 µg/kg) is based on the maximum detection from a set of 4 samples (4 detects). Multiylims obloride is a common informatory contaminent indicating that the contaminant is introduced in the laboratory offer the sample is collected in the field.
- be. Exceeded GWP SSL but eliminated figuragh further evaluation. The calculated EPC for borns (4.975 µg/kg) is based on the 95% IAM (1) UCL from s set of 15 ramples (14 delects used 1 nondetex). With the exception of two detected results (6.500 µg/kg and 7,800 µg/kg and 7,800 µg/kg, borns results wave within the range of materully consuming levels (1,850 µg/kg and 5,800 µg/kg) at the Handred Site. As a ramelt, the EPC likely oversteine the concentration set this decision said and is walkedy to impact grown-breafer.
- M. Examinal GWP SEL but eliminated through further evaluation. The substanted EPC for methylene elderide (0.2 paylog) in based on the 95% Substant+UCL from a set of 10 ampires (10 datum). All methylene elderide results were flegged "8" indicating it was elected in both the associated method black and in the sample is collected in the field.
- by. Exemelad (WP SSL but eliminated through further evaluation. The exhalated EPC for methylms olderide (12 µg/kg) is based on the 95% Student's UXL from a set of 10 samples (10 detects). All methylms observed results were flagged "B" indicating it was detected in both the associated method blank and in the sample. Methylms observed is no consumerable between a consumerable consu
- bh. Encould GWP SSL but eliminated through further evolutions. The enhantested EFC for methylane oblivide (identities) in second in the final description of the sample (P detents and 8 acceptation). All methylane oblivide detections were flagged "B" infloating it was detected in both the associated methyl black and in the nample. Methylane oblivide is a common laboratory contaminated infloating that the contensional is introduced in the laboratory other the complex is collected in the field.
- bi. Exceeded GWP SSL but aliminated through further evaluation. The calculated EPC for boron (9,818 µg/kg) is based on the 95% Chebyshov (Mans,SD) UCL from a set of 14 samples (14 datacts). With the attemptions of the maximum dataction, all boron results were within the range of naturally occurring levels (1,850 µg/kg) at the Handred Sta. The EPC likely oversitate the consumration at this decision said and unlikely to impact promisenter.
- b). Extended OWP SSL but eliminated through further evaluation. The calculated EPC for relevance (1,000 pag kg) is based on the maximum concentration from a set of 14 samples (1 detect and 13 nondetects); the ringle detection was greater than Hamford Site background. The EPC represents a very low most of potential contamination and force is not a significant potential that contamination could migrate through the various man and result in a concentration that could impact groundwater.
- Mr. Exceeded GWP SSL but eliminated through further evaluation. The established EVC during the wave flagged "C" by the jaboratory indicating the analytic was distinsted in both the same and the associated QC blank. As a result, the EVC overstates the concentration at this designs well and allow is multilarly to impact groundwater.
- M. Excepted GWP SSL but eliminated through further evaluation. The calculated EPC for calculation [1,797 pg/kg] is based on the maximum detection from a set of 10 samples (# detects and 2 acceptators). All cadmium results (detected concentrations and detection limits) were within the range of authority coverring levels (60 pg/kg and 2,790 pg/kg) at the Heaterd Sto. As a result, the EPC would not likely russ? in a concentration that evold impact groundwrite.
- but. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for alpha-BHC (0.52 gyfq) is based on thomacimum detection from a set of 3 marpin (1 detects and 2 mendestors). Biological controls including posticides and barbicides are applied on the Hantland Site to prevent the spread of contemination by hiclogical venture and comply with environmental, safety, health and quality principals. The presence of this posticide is likely from application of hiclogical controls and not the news it of Hantland Site operations and in walking to impact presentation.
- in. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for 2,4,5-T (47 pg/kg) in based on the 95% KM (Chebyshov) UCL from a set of 11 samples (9 detacts and 2 sondstants). Biological controls including posticidus and horbicides are applied on the Hanford Site to provent the spread of contamination by biological vectors and comply with nevicessantal, safety, health and quality principals. The presence of this posticide is likely from application of biological controls and not the result of Hanford Site operations and is walked by to impact groundwater.
- to. Excended GWP SSL, but eliminated through further evaluation. The calculated EPC for 2.4.5-TP (2) ageing is based on the maximum distortion from a set of 11 samples (1 detect and 10 acceptation). Biological controls including particular and harbinides are applied on the Hanford Sits to prevent the spread of continuous and to be the continuous and an application of biological controls and not the result of Euclidea' Sits operations and is unalkedy to impact groundwater.
- tp. Exceeded GWP SSL but alterimented through further evoluntion. The calculated EFC for 2,4-DB (250 pg/kg) is based on the sectionam detection from a set of 11 samples (1 detect and 10 sections). Biological controls including postcoides and but-incides are applied on the Hanford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this postcoide is likely from application of biological controls and not the result of Hanford Site operations and is unlikely to impact groundwater.
- bg, Exceeded GWP SSL, but eliminated through further evaluation. The calculated EPC for borne (19.810 µg/kg) is based on the 97.5% k3xl (Cuchyshov) UCL from a set of 11 margins (8 detects and 3 mondetects). With the exception of two samples (14,200 µg/kg and 25,400 µg/kg), becam rewrite was visible for range of naturally concerning inveis (3,900 µg/kg and 5,500 µg/kg) at the Handred Ssin. The EPC blocky oversities the concentration at this decision mix and sulfacely to impost ground-baster.
- by. Exceeded GWP SSL but eliminated through further evaluation. The calculated EPC for bota-HHC (1.9 ag/kg) is based on the maximum detection from a set of 14 samples (1 detect and 13 nondetects). Biological controls including posts-ides and harbicides are applied on the Handford Site to prevent the spread of contensisation by biological vectors and comply with surironmental, safety, health and quality principals. The presence of this post-inde is likely from application of biological controls and not the rows it of Handford Site operations and is militarly to impact ground-water.
- In. Exceeded GWP SSL but sliminated through further evaluation. The solublated EPC for boron (4,666 agriga) in based on the 95% Approximate Ground U.C. from a set of 14 samples (14 delects). With the exception of the machinum delection (13,200 agriga), boron results were within the range of naturally covarring locals (3,300 agriga) and 5,560 agriga) at the Hanford Size. The EPC Sixely coverstates the concentration at this decision unit and entitlety to impost groundwater.
- bt. Extended GWP SSI, but eliminated through further evaluation. The calculated EPC for bota-BFC (2.1 µg/kg) is based on the nucious detection from a set of 4 samples (1 detect and 3 accelerates). Biological controls including particides and harbinishes are applied on the Handord Site to proved the spread of contamination by biological vestors and comply with environmental, safety, health and quality principals. The presence of this particide is likely from application of biological controls and not the result of Handord Site operations and is multively to impact groundwater.

	Table 7-7. Evaluation of 100-BC OU Waste Site Data with EPCs Greater than Surface Water Protection Soil Screening Levels									
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Exposure Point Concentration (µg/kg or pCi/g)	Selected SWP SSL (ng/kg or pCl/g)	Selected SWP SSL Basis	Is EPC > Solf Screening Level Protective of Surface Water?			
100-B-1_Shallow_2	non-Rad	Heptachlor	76-44-8	5.5	2.000	RDL	Yes*			
100-B-14:2 Shallow 2	non-Rad	Copper	7440-50-8	23,864	22,000	Background Value	Yes ^b			
100-B-14:2 Shallow 2	non-Rad	Pentachlorophenol	87-86-5	1,900	330	RDL	Yes ^c			
100-B-16 Shallow Focused	non-Rad	Silver	7440-22-4	1,500	200	RDL	Yes ^d			
100-B-18_Shallow_Focused	non-Rad	Cadmium	7440-43-9	13,200	1510.0	Background Value	Yes*			
100-B-19_Shallow_2	non-Rad	Selenium	7782-49-2	1,280	780	Background Value	Yes'			
100-B-19_Shallow_5	non-Rad	Mercury	7439-97-6	6,100	3,198	Scaled SWP SSL	Yes ^g			
100-B-19_Shallow_Focused	non-Rad	Copper	7440-50-8	22,800	22000	Background Value	Yesh			
100-B-19 Shallow Focused	non-Rad	Iron	7439-89-6	3.96E+07	32,600,000	Background Value	Yes			
100-B-19_Shallow_Focused	non-Rad	Mercury	7439-97-6	17,100	368	Scaled SWP SSL	Yes			
100-B-20 Shallow Focused	non-Rad	Copper	7440-50-8	43,300	29,287	Scaled SWP SSL	Yes ^k			
100-B-21:2_Shallow	non-Rad	Silver	7440-22-4	390	200	RDL	Yes¹			
100-B-21:4_Shallow	non-Rad	Selenium	7782-49-2	1,040	1000	RDL	Yes ^m			
100-B-22:2_Shallow_Focused	non-Rad	Copper	7440-50-8	66,700	22000	Background Value	Yes ⁿ			
100-B-22:2_Shallow_Focused	non-Rad	Iron	7439-89-6	4.43E+07	32,600,000	Background Value	Yes ^p			
100-B-22:2_Shallow_Focused	non-Rad	Silver	7440-22-4	1,960	200.0	RDL	Yes ^q			
100-B-23_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1,700	1510.000	Background Value	Yes'			
100-B-23_Shallow_Focused	non-Rad	Mercury	7439-97-6	8,200	200	RDL	Yes ^t			
100-B-23_Shallow_Focused	non-Rad	Zinc	7440-66-6	1.31E+06	314,267	Scaled SWP SSL	Yes ^t			
100-B-27_Deep	non-Rad	Copper	7440-50-8	28,589	22,000	Background Value	Yes"			
100-B-27_Deep	non-Rad	Iron	7439-89-6	3.61E+07	32,600,000	Background Value	Yes			
100-B-27_Deep	non-Rad	Silver	7440-22-4	208	200	RDL	Yes ^w			
100-8-28_Shallow_Focused	non-Rad	Copper	7440-50-8	31,000	22000	Background Value	Yes*			
100-B-28_Shallow_Focused	non-Rad	Iron	7439-89-6	3.69E+07	32,600,000	Background Value	Yes ^v			
100-B-28_Shallow_Focused	non-Rad	Mercury	7439-97-6	804	535	Scaled SWP SSL	Yes ^z			
100-8-31_Shallow	non-Rad	Copper	7440-50-8	30,009	22,000	Background Value	Yesaa			
100-B-35:1_Deep_Focused	non-Rad	Copper	7440-50-8	23,200	22,000	Background Value	Yes ^{ab}			
100-B-35:2_Shallow_Focused	non-Rad	Silver	7440-22-4	569	200	RDL	Yes ^{ac}			
100-B-5_Deep	non-Rad	Mercury	7439-97-6	5,040	2,920	Scaled SWP SSL	Yes ^{ad}			
100-C-9:2_Shallow_Focused	non-Rad	Copper	7440-50-8	66,100	22,000	Background Value	Yesae			
100-C-9:2_Shallow_Focused	non-Rad	Endrin	72-20-8	3.6	3.000	RDL	Yes ^{af}			
116-B-11_Deep	non-Rad	Mercury	7439-97-6	5,251	940	Scaled SWP SSL	Yes ^{ag}			
116-B-4_Deep	non-Rad	Silver	7440-22-4	720	200	RDL	Yes ^{ah}			
116-B-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	16,000	2,143	Scaled SWP SSL	Yes ^{al}			
116-C-1_Deep	non-Rad	Mercury	7439-97-6	2,275	1,401	Scaled SWP SSL	Yes ^{aj}			
116-C-1_Deep_Focused	non-Rad	Cadmium	7440-43-9	2,900	1510.00	Background Value	Yes ^{ak}			
116-C-1_Deep_Focused	non-Rad	Copper	7440-50-8	30,400	22,000	Background Value	Yes ^{al}			
116-C-1_Deep_Focused	non-Rad	Mercury	7439-97-6	11,800	1,401	Scaled SWP SSL	Yes ^{am}			
116-C-1_Deep_Focused	non-Rad	Silver	7440-22-4	890	200	RDL	Yes ^{an}			
116-C-3_Shallow_Focused	non-Rad	Silver	7440-22-4	270	200	RDL	Yes ^{ao}			
116-C-5_Deep	non-Rad	Mercury	7439-97-6	2,436	866	Scaled SWP SSL	Yes ^{ap}			
118-B-1_Shallow_4	non-Rad	Dieldrin	60-57-1	3.8	3.4	Scaled SWP SSL	Yes ^{aq}			
118-B-1_Shallow_7	non-Rad	Copper	7440-50-8	25,700	22,000	Background Value	Yes ^{ar}			
118-B-1_Shallow_Focused	non-Rad	Copper	7440-50-8	28,000	22000	Background Value	Yes ⁸⁴			
118-B-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	14,500	321	Scaled SWP SSL	Yes ^{at}			
118-C-1_Shallow_3	non-Rad	Copper	7440-50-8	45,200	22,000	Background Value	Yes ^{au}			
118-C-1_Shallow_Focused	non-Rad	Copper	7440-50-8	23,300	22,000	Background Value	Yes ^{av}			
118-C-3:3_Shallow_Focused	non-Rad	Copper	7440-50-8	38,300	22,000	Background Value	Yes®			
120-B-1_Shallow_Focused	non-Rad	Silver	7440-22-4	230	200	RDL	Yes			
126-B-3_Shallow	non-Rad	Copper	7440-50-8	23,531	22,000	Background Value	Yes" ^Y			
128-B-3_Shallow_2	non-Rad	Copper	7440-50-8	38,045	22,000	Background Value	Yes ^{az}			
128-B-3_Shallow_2	non-Rad	Silver	7440-22-4	241	200	RDL	Yes ^{be}			
128-B-3_Shallow_3	non-Rad	Silver	7440-22-4	300	200	RDL	Yes ^{bb}			
128-C-1_Shallow	non-Rad	Copper	7440-50-8	48,008	22,000	Background Value	Yes ^{bc}			
128-C-1_Shallow	non-Rad	Selenium	7782-49-2	1,300	1000	RDL	Yes ^{bd}			
128-C-1_Shallow	non-Rad	Silver	7440-22-4	6,600	200	RDL	Yes ^{be}			
128-C-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	1,797	1510.0	Background Value	Yes ^{bf}			
1607-B2:1_Shallow	non-Rad	Copper	7440-50-8	30,171	22,000	Background Value	Yes ^{bg}			
1607-B2:2_Shallow	non-Rad	Copper	7440-50-8	51,480	22000	Background Value	Yes ^{bh}			
1607-82:2_Shallow	non-Rad	Endosulfan I	959-98-8	6.9	3,000	RDL	Yes ^{bl}			
1607-B2:2_Shallow	non-Rad	Endosulfan II	33213-65-9	3.4	3.000	RDL	Yes ^{bj}			
1607-B9_Shallow	non-Rad	Dieldrin	60-57-1	4.4	3.3	RDL	Yes ^{bk}			
600-233 Shallow Focused	non-Rad	Selenium	7782-49-2	3,000	1000	RDL	Yes ^{bl}			

a. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for beptachlor (5.5 µg/kg) is based on the maximum detection from a set of 13 samples (1 detect and 12 nondetects). Biological controls including pesticides and herbicides are applied on the Hanford Site operations and is unlikely to impact surface water.

b. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (23,864 µg/kg) is based on the 95% Student's-t UCL from a set of 10 samples (10 detects). All copper results are within the range of naturally

curring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.

Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for pentachlorophenol (1,900 µg/kg) is based on the maximum detection from a set of 10 samples (1 detect and 9 nondetects). The EPC represents a very

Exceeded SWF SSL but eliminated through further evaluation. The calculated EPC for elementorypectors (1,900 µg/kg) is based on the maximum detection from a set of 10 samples (1 detect and 9 nonoerects). The EPC represents a very own mass of potential contamination on other is not a significant potential that contamination could migrate through the vadoes zone and result in a concentration that could impact surface water.

1. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (1,500 µg/kg) is based on the maximum detection from a set of 4 samples (1 detect and 3 nondetects). The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadoes zone and result in a concentration that but dispact surface water.

2. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for cadmium (13,200 µg/kg) is based on the maximum detection from a set of 11 samples (8 detects and 3 nondetects). With the exception of the maximum

detection, cachnium results were within the range of naturally occurring levels (563 µg/kg and 2,980 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water

Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for selenium (1,280 µg/kg) is based on the maximum detection from a set of 12 samples (1 detect and 11 nondetects). The EPC represents a very low mass of ential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water

Table 7-7. Evaluation of 100-BC OU Waste Site Data with EPCs Greater than Surface Water Protection Soil Screening Levels

				Exposure Point			Is EPC > Soil Screening
				Concentration	Selected SWP SSL		Level Protective of
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	(µg/kg or pCi/g)	(µg/kg or pCi/g)	Selected SWP SSL Basis	Surface Water?

- g. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (6,100 μg/kg) is based on the maximum detection from a set of 10 samples (9 detects and 1 nondetect). With the exception of the maximum detection, mercury results ranged between 10 μg/kg and 980 μg/kg where 4 of 10 results within the range of naturally occurring levels (13 μg/kg and 29 μg/kg) at the Hamford Site. The EPC fikely overstates the concentration at this decision unit and unlikely to impact surface water.
- h. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (22,800 μg/kg) is based on the maximum detection from a set of 7 samples (7 detects). Copper concentrations ranged between 11,000 μg/kg and 22,600 μg/kg which are within the range of naturally occurring levels (22,000 μg/kg and 61,000 μg/kg) at the Hamford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for iron (39,600,000 µg/kg) is based on the maximum detection from a set of 7 samples (7 detects). All iron results are within the range of naturally occurring levels (32,600,000 µg/kg and 68,100,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (17,100 µg/kg) is based on the maximum detection from a set of 7 samples (5 detects and 2 nondetects). Mercury detections ranged between 250 µg/kg and 17,100 µg/kg. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- k. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (43,300 μg/kg) is based on the maximum detection from a set of 4 samples (4 detects). All copper results were within the range of naturally occurring levels (22,000 μg/kg and 61,000 μg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- 1. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (390 µg/lg) is based on the maximum detection from a set of 11 samples (1 detect and 10 nondetects). The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surfacewater.
- n. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for selenium (1,040 µg/kg) is based on the 95% KM (% Bootstrap) UCL from a set of 12 samples (2 detects and 10 nondetects). The EPC represents a very ow mass of potential contamination and there is not a significant potential that contamination could migrate through the vadous zone and result in a concentration that could impact surface water.
- n. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for cadmium (1,020 µg/kg) is based on the maximum detection from a set of 10 samples (8 detects and 2 nondetects). All cadmium results were within the range of naturally occurring levels (563 µg/kg and 2,980 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- o. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (66,700 µg/kg) is based on the maximum detection from a set of 10 samples (10 detects). With the exception of the maximum detection, copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- p. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for iron (44,300,000 µg/kg) is based on the maximum detection from a set of 10 samples (10 detects). All iron results are within the range of naturally occurring levels (32,600,000 µg/kg and 6,810,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- q. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (1,960 µg/kg) is based on the maximum detection from a set of 10 samples (3 detects and 7 nondetects); all 3 detections were greater than the SSL. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the valoes zone and result in a concentration that could impact surface water.
- r. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for cacimium (1,700 µg/kg) is based on the maximum detection from a set of 4 samples (3 detects and 1 nondetect). All cadmirum results were within the range of naturally occurring levels (563 µg/kg and 2,980 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- s. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (8,200 µg/kg) is based on the maximum detection from a set of 4 samples (3 detects and 1 nondetect). Mercury detections ranged between 40 µg/kg and 8,200 µg/kg. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for zinc (1,310,0000 µg/kg) is based on the maximum detection from a set of 4 samples (4 detects). With the exception of the maximum detection, zinc results were within the range of naturally occurring levels (67,800 µg/kg and 366,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- u. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (28,589 µg/kg) is based on the 95% Student's-t UCL from a set of 25 samples (25 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- v. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for iron (36,100,000 µg/kg) is based on the 95% Student's-t UCL from a set of 25 samples (25 detects). All iron results are within the range of naturally occurring levels (32,600,000 µg/kg and 68,100,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- w. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (208 µg/kg) is based on the 95% KM (Percentile Bootstrap) UCL from a set of 25 samples (5 detects and 20 nondetects). Silver results are within the range of naturally occurring levels (167 µg/kg and 273 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- x. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (31,000 µg/kg) is based on the maximum detection from a set of 6 samples (6 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hamford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- γ. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for iron (36,900,000 μg/kg) is based on the maximum detection from a set of 6 samples (6 detects). All iron results are within the range of naturally occurring evels (32,600,000 μg/kg and 68,100,000 μg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- z. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (804 µg/kg) is based on the maximum detection from a set of 6 samples (2 detects and 4 nondetects). With the exception of the maximum detection, mercury results were within the range of naturally occurring levels (13 µg/kg and 29 µg/kg) at the Hanford Site. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- as. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (30,009 µg/kg) is based on the 95% Modified-t UCL from a set of 21 samples (21 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- ab. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for copper (23,200 µg/kg) is based on the maximum detection from a set of 4 samples (4 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- ac. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (569 µg/kg) is based on the maximum detection from a set of 2 samples (2 detects); both detections were greater than the SSL and both results were flagged with "J" validation qualifier indicating they are estimated results. The EPC represents a very low mass of potential contamination and there is not a significant potential; that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.

 d. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (5,040 µg/kg) is based on the maximum detection from a set of 3 samples (3 detects). Mercury results ranged between 491 µg/kg and 5,040 µg/kg.
- ad. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (5,040 µg/kg) is based on the maximum detection from a set of 3 samples (3 detects). Mercury results ranged between 491 µg/kg and 5,040 µg/kg, one of three detects were greater than the SSL. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- se. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (66,100 µg/kg) is based on the maximum detection from a set of 13 samples (13 detects). With the exception of the maximum detection, all copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- af. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for endrin (3.6 µg/kg) is based on the maximum detection from a set of 13 samples (1 detect and 12 nondetects). Biological controls including pesticides and herbicides are applied on the Henford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this pesticide is likely from application of biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.

 ag. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (5,251 µg/kg) is based on the 95% Approximate Gamma UCL from a set of 12 samples (12 detects). Mercury results ranged between 170 µg/kg
- ag. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (S, 251 μg/kg) is based on the 95% Approximate Gamma UCL from a set of 12 samples (12 detects). Mercury results ranged between 1/0 μg/kg and 14,500 μg/kg, all greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- ah. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (720 µg/kg) is based on the 95% KM (% Bootstrap) UCL from a set of 6 samples (2 detects and 4 nondetects); both detections were greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- ai. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (16,000 µg/kg) is based on the maximum detection from a set of 43 samples (8 detects and 35 nondetects). Mercury results ranged between 200 µg/kg and 16,000 µg/kg, all detections were greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.

 | Second SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (2,275 µg/kg) is based on the 95% Approximate Gamma UCL from a set of 12 samples (12 detects). Mercury results ranged between 30 µg/kg
- aj. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (2,275 μg/kg) is based on the 95% Approximate Gamma UCL from a set of 12 samples (12 detects). Mercury results ranged between 30 μg/kg and 3,100 μg/kg, all greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- ak. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for cadmium (2,900 µg/kg) is based on the maximum detection from a set of 7 samples (5 detects and 2 nondetects). With the exception of the maximum detection, all cadmium results were within the range of naturally occurring levels (563 µg/kg and 2,980 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- al. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (30,400 µg/kg) is based on the maximum detection from a set of 7 samples (7 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- am. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (11,800 µg/kg) is based on the maximum detection from a set of 7 samples (7 detects). Mercury results ranged between 30 µg/kg and 11,800 µg/kg all results greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could interpret amplication and the second int

Table 7-7. Evaluation of 100-BC OU Waste Site Data with EPCs Greater than Surface Water Protection Soil Screening Levels

				Exposure Point			Is EPC > Soil Screening
				Concentration	Selected SWP SSL		Level Protective of
Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	(µg/kg or pCi/g)	(µg/kg or pCi/g)	Selected SWP SSL Basis	Surface Water?

- an. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (890 µg/kg) is based on the maximum concentration from a set of 7 samples (1 detect and 6 nondetects); the single detection was greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface w
- io. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (270 µg/kg) is based on the maximum concentration from a set of 4 samples (1 detect and 3 nondetects); the single detection was within the range of antimally occurring levels (167 µg/kg and 273 µg/kg) at the Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadoes zone and result in a concentration that could immact surface water.
- and result in a concentration that could impact surface water.

 ap. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (2,436 µg/kg) is based on the 97.5% KM (Chebyshev) UCL from a set of 21 samples (20 detects and 1 nondetect). Mercury results ranged between 40 µg/kg and 6,200 µg/kg, all mercury results were greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the values greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the values greater than Hanford Site background.
- potwiers no 1918 and 2000 pages, an interest, in concentration that could impact surface water.

 aq. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for dieldrin (3.8 µg/kg) is based on the maximum detection from a set of 4 samples (1 detect and 3 nondetects). Biological controls including pesticides and herbicides are applied on the Hanford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this pesticide is likely from application of biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.
- ar. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (25,700 μg/kg) is based on the maximum detection from a set of 4 samples (4 detects). With the exception of the maximum detection, all copper results were within the range of naturally occurring levels (22,000 μg/kg and 61,000 μg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- as. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (28,000 µg/kg) is based on the maximum detection from a set of 12 samples (12 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- at. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for mercury (14,500 μg/kg) is based on the maximum detection from a set of 7 samples (6 detects and 1 nondetect). Mercury results ranged between 240 μg/kg and 14,500 μg/kg, all greater than naturally occurring concentrations. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- au. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (45,200 μg/kg) is based on the maximum detection from a set of 4 samples (4 detects). All copper results were within the range of naturally occurring levels (22,000 μg/kg and 61,000 μg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- av. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (23,300 µg/kg) is based on the maximum detection from a set of 6 samples (6 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- aw. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (38,300 µg/kg) is based on the maximum detection from a set of 4 samples (4 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- ax. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (230 µg/kg) is based on the maximum detection from a set of 6 samples (1 detect and 5 nondetects), the single detection and all detection limits were with naturally occurring levels (167 µg/kg and 273 µg/kg) at the Hanford Site As a result, the EPC would not likely result in a concentration that could impact surface water.
- ay. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (23,531 μg/kg) is based on the 95% Approximate Gamma UCL from a set of 15 samples (15 detects). All copper results were within the range of naturally occurring levels (22,000 μg/kg and 61,000 μg/kg) at the Hanford Site. As a result, the EPC would not likely result in a concentration that could impact surface water.
- az. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (38,045 µg/kg) is based on the 95% H-UCL from a set of 10 samples (10 detects). With the exception of the maximum detection (78,900 µg/kg), all copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. As a result, the EPC would not likely result in a concentration that could impact surface water.
- ba. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (241 µg/kg) is based on the 95% KM (t) UCL from a set of 10 samples (2 detects and 8 nondetects); all silver results (detected concentrations and detection limits) were with naturally occurring levels (167 µg/kg and 273 µg/kg) at the Hanford Site As a result, the EPC would not likely result in a concentration that could impact surface water.
- bb. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (300 µg/kg) is based on the maximum detection from a set of 17 samples (1 detect and 16 nondetects); with the exception of the single detect, all silver results were not detected. As a result, the EPC would not likely result in a concentration that could impact surface water.
- bc. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (64,800,000 µg/kg) is based on the 95% Chebyshev (Mean,SD) UCL from a set of 14 samples (14 detects). With the exception of two samples, copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water.
- bd. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for selenium (1,300 µg/kg) is based on the maximum concentration from a set of 14 samples (1 detect and 13 nondetects); the single detection was greater than Hanford Site background. The EPC represents a very low mass of potential contamination and there is not a significant potential that contamination could migrate through the vadose zone and result in a concentration that could impact surface water.
- be. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for silver (6,600 µg/kg) is based on the maximum detection from a set of 14 samples (2 detects and 12 nondetects). The single detection and all nondetects were flagged "C" by the laboratory indicating the analyte was detected in both the same and the associated QC blank. As a result, the EPC overstates the concentration at this decision unit and silver is unlikely to impact surface water.
- bf. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for cadmium (1,797 µg/kg) is based on the maximum detection from a set of 10 samples (8 detects and nondetects). All cadmium results (detected concentrations and detection limits) were within the range of naturally occurring levels (563 µg/kg and 2,980 µg/kg) at the Hanford Site. As a result, the EPC would not likely result in a concentration that could impact surface water.
- bg. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (30,171 µg/kg) is based on the 95% Approximate Gamma UCL from a set of 11 samples (11 detects). All copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. As a result, the EPC would not likely result in a concentration that could impact surface water.
- bh. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for copper (51,480 µg/kg) is based on the 95% Chebyshev (Mean, Sd) UCL from a set of 14 samples (14 detects). With the exception of the maximum detection (107,000 µg/kg), copper results were within the range of naturally occurring levels (22,000 µg/kg and 61,000 µg/kg) at the Hanford Site. The EPC likely overstates the concentration at this decision unit and unlikely to impact surface water
- bi. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for endosulfan I (6 9 µg/kg) is based on the maximum detection from a set of 14 samples (1 detect and 13 nondetects). Biological controls including pesticides and herbicides are applied on the Hanford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this pesticide is likely from application of
- biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.

 bj. Exceeded SWP SSI, but eliminated through further evaluation. The calculated EPC for endosulfan [1 3.4 µg/kg] is based on the maximum detection from a set of 14 samples (1 detect and 13 nondetects). Biological controls including pesticides and herbicides are applied on the Hanford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this pesticide is likely from application of biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.
- biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.

 Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for dieldrin (4.4 µg/kg) is based on the 95% KM (t) UCL from a set of 8 samples (2 detects and 6 nondetects). Biological controls including pesticides and herbicides are applied on the Hanford Site to prevent the spread of contamination by biological vectors and comply with environmental, safety, health and quality principals. The presence of this pesticide is likely from application of biological controls and not the result of Hanford Site operations and is unlikely to impact surface water.
- bl. Exceeded SWP SSL but eliminated through further evaluation. The calculated EPC for selenium (3,000 µg/kg) is based on the maximum detection from a set of 2 samples (1 detect and 1 nondetect). The single detection and the single nondetect were flagged "C" by the laboratory indicating the analyte was detected in both the sample and the associated QC blank. As a result, the EPC overstates the concentration at this decision unit and selenium is unlikely to impact surface water.